MC-2018

OPERATOR'S MANUAL and PARTS LIST

JOY[®]

TWISTAIR®

SCREW COMPRESSOR

MODELS

TA-007

TA-010

TA-015



OPERATOR'S MANUAL AND PARTS BOOK 71/2-10-15 HORSEPOWER

JOY MANUFACTURING COMPANY AIR POWER DIVISION Michigan City, Indiana 46360

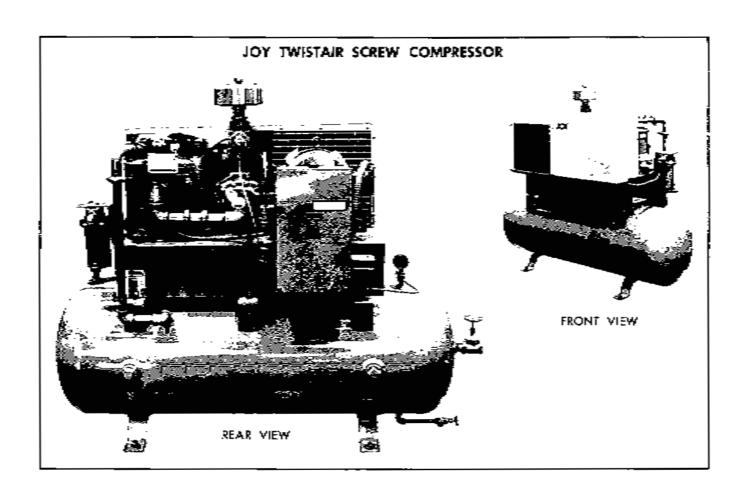


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OPERATOR'S MANUAL JOY TWISTAIR COMPRESSOR

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GENERAL DESCRIPTION

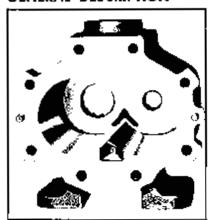


FIGURE 1 Housing (Stator)

The Joy Twistair Compressor is a positive displacement, flood lubricated, screw type compressor that employs a single stage of compression to achieve the specified pressure and capacity. The compressor consists of a housing (stator) figure 1, two screws (rotors) figure 2, bearings, bearing housing and end covers. In operation the male rotor, 1 figure 2, turns at its rated speed, however, the female rotor, 2 figure 2, turns at only two-thirds the speed of the speed of the male rotor. This is because the male rotor has 4 lobes while the female has 6.

Compression is obtained by trapping air between the threads or lobes of the two rotors. As the rotors turn, the lobes mesh, reducing the volume in the pockets and thus compressing the trapped air. The compressed air is discharged through the discharge port just as it reaches discharge pressure.

The principle of screw type compression is illustrated in figure 3.

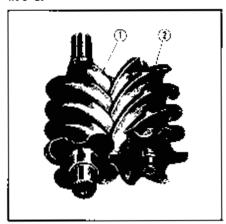
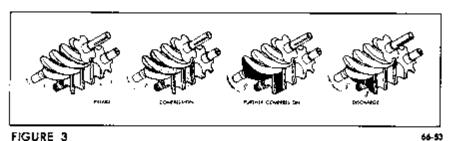


FIGURE 2 66-52 Screws (Rotars) 1. Male Rotor 2. Female Rotor



Principle of Operation of Screw Type Compressor

66-53

This series of Joy Twistair compressors is available in 3 sizes, 71/2, 10 and 15 Horsepower. Other models of Joy Twistair compressors are available in sizes from 20 horsepower up through 300 horsepower.

The Twistair compressors covered in this manual have capacities ranging from 26.0 C.F.M. to 55.5 C.F.M. and are rated at 100 PSIG service discharge pressure. They are designed to deliver a maximum of 125 PSIG. All three models are available either as base mounted or tank mounted units. The 71/2 and 10 horsepower tank mounted units are mounted on 80 gallon air receiver while the 15 horsepower unit is mounted on a 120 gallon tank. Oversize tanks are available as optional equipment, refer to accessory section of this manual for sizes.

INSTALLATION

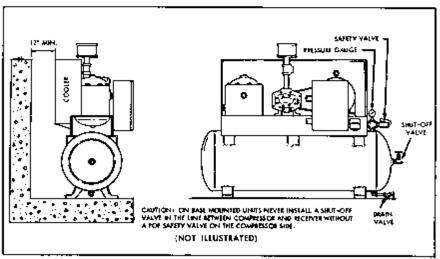


FIGURE 4 Typical Installation

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LOCATION

The Joy Twistair Compressor is designed for indoor operation with ambient air for intake and cooling ranging from 50" F. to 105° F. In order to avoid excessive pressure loss through use of extended pipe or hose lines, the compressor should be located as close as possible to the point where the compressed air is to be used. In selecting the location it is important that the compressor has an ample supply of cool, well circulated air. Do not set the unit with the oil cooler side closer than 12 inches from a wall or other obstruction which would restrict the free flow of air through the cooler. A good circulation of air through the cooler is very important.

CAUTION

IF CONTAMINATED AIR CONTAINING ACID. PAINT OR CORROSIVE MATTER IS PRESENT. THEN AN OUTSIDE SOURCE OF AIR MUST BE PROVIDED FOR THE COMPRESSOR AIR INTAKE.

ELECTRICAL CONNECTIONS

Have electrical connections to the power source made by a competent electrician in accordance with local codes. It is extremely important that the wiring is accomplished to assure proper rotation of the compressor as indicated by the direction of rotation arrow on the discharge end bearing cap.

The electrical circuit must have the same characteristics and voltage as indicated on the motor nameplate and as is called for in the controllers and wiring diagram. See figure 5, Page 5.

UNIT MUST BE GROUNDED. Ground from ground connection on base to water pipe or other good ground. Use \$8 wire or larger.

AIR SUPPLY

A clean air supply is desirable for the satisfactory operation of your Joy Compressor. Intake air temperature should range from 50° F. to 105° F. Where alternate sources of intake air are available, select the source supplying the cleanest air. The standard air filter with which the compressor is equipped is of sufficient size and design to meet all normal operating conditions if serviced regularly, in accordance with the service schedule given on Page 16.

NOTE

IF THE COMPRESSOR IS TO OPERATE IN AN AREA WHERE CONSIDERABLE LINT, DUST, DIRT OR

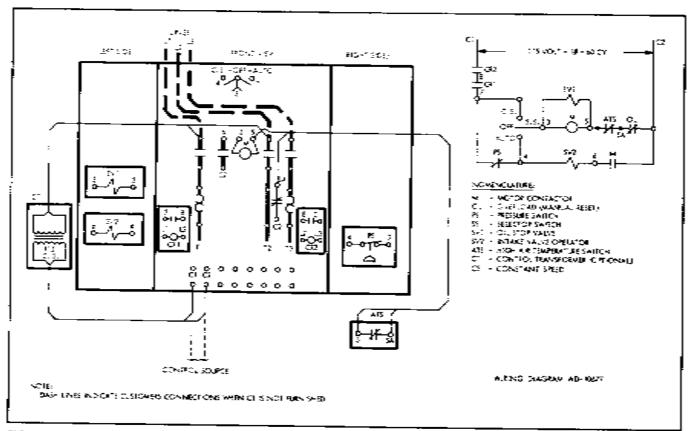


FIGURE 5 Wiring Diagram

OTHER CONTAMINATES ARE PRESENT, IT IS SUG-GESTED THAT AN AIR FILTER RECOMMENDED FOR THE SPECIFIC ENVIRONMENT BE SUBSTI-TUTED FOR THE STANDARD FILTER. AN ALTER-NATE TO THE SPECIAL FILTER WOULD BE A MORE FREQUENT MAINTENANCE SCHEDULE FOR THE STANDARD FILTER. THE FREQUENCY FOR THE MAINTENANCE OF THE STANDARD FILTER MAY HAVE TO BE ESTABLISHED AFTER A PER-IOD OF USAGE.

PIPING FOR OUTSIDE SOURCE OF AIR

When an outside source of air is to be supplied, the following rules should be followed:

- 1. Protect intake from the weather, rain and snow.
- Keep intake pipe away from steam, gas, or engine exhaust.
 Vapors will be drawn into the compressor whether there is a filter or not.
- Take outside air from at least 6 feet above ground or roof level. This is to minimize picking up dirt and litter in the intake.
- 4. If possible, locate the intake on the shady (usually north) side of the building and, if possible, under an overhang, as the air is cooler in these locations.
- 5. Install the intake pipe from the compressor outward. Make the pipe the same size or larger than the compressor intake opening. As a rule of thumb, increase the pipe diameter 2 inches for every 15 feet of piping.
- Support intake lines with hangers, clamps and floor columns to keep weight of lines off compressor.
- Intake piping should include a section of hose or flexible tubing.
- 8. Interior of added inlet piping must be corrosion resistant.

DISCHARGE PIPING

As previously stated, the compressor should be located as closely as possible to the point of compressed air usage. However, whatever piping is used in the distribution system should be constructed to offer a minimum amount of resistance to air flow between the receiver and point of use. Long radius albows and pipe of sufficient size should be used. In no case should the piping be of smaller size than the receiver discharge opening.

NOTE

IN CASES WHERE THE COMPRESSOR IS CONNECTED IN THE SAME LINE AS A RECIPROCATING COMPRESSOR, A SURGE VOLUME CHAMBER AND A CHECK VALVE MUST BE INSTALLED IN THE AIR LINE BETWEEN THE TWO COMPRESSORS.

THE CHECK VALVE SHOULD BE LOCATED BETWEEN COMPRESSOR DISCHARGE AND SURGE CHAMBER, THIS APPLIES ONLY TO BASE MOUNTED UNITS. ON TANK MOUNTED UNITS THE RECEIVER ACTS AS A SURGE CHAMBER.

LUBRICATION

The operating principle of the compressor is such that the pressure circulated oil in the system serves three purposes:

- 1. Lubricates the rotating parts and bearings.
- Serves as cooling agent for the compressed air to maintain the discharge air temperature within 100° F. of ambient temperature provided it is properly maintained.
- Assures high efficiency and maximum air delivery by helping to seal the running clearance in the screws.

COMPRESSOR OIL SPECIFICATIONS

Joy Twistair compressors under normal operating conditions can use either a 10 weight premium heavy-duty motor oil or 10 weight premium quality heavy-duty industrial type oil. However under extremely humid operating conditions the 10 weight heavy-duty industrial type oil is the preferred choice.

Viscosity of the oil should be 160 to 210 SSU at 100°F, and the oil should contain rust and oxidation inhibitors and foam suppressors. The flash point of the oil must be 400°F, minimum.

CAUTION

IF DIFFERENT BRANDS AND TYPES OF OIL ARE MIXED THERE IS A DISTINCT POSSIBILITY THAT SOME OF THE ADDITIVES OF ONE BRAND WILL REACT WITH THE ADDITIVES OF THE OTHER BRAND. FOR THIS REASON THE MIXING OF DIFFERENT BRANDS OF OIL MUST BE AVOIDED.

LUBRICATION SYSTEM

Cooled oil under pressure is directed from the oil cooler to the compressor, where it serves as a lubricant, cooling agent and seal. As it passes through the compressor it mixes with the air being compressed and discharges with the compressed air into the oil sump, where nearly all the oil in the air drops out due to impingment and velocity change. Most of the remaining additional traces of oil are removed as the air passes through the special oil separator device. The oil thus separated returns to the sump, and the air leaves the sump at the discharge opening. The hot filtered oil from the sump returns through the air-cooled oil cooler for re-circulation through the compressor completing the cycle.

The oil-air flow schematic figure 6, illustrates the circulation of air and oil in the system.

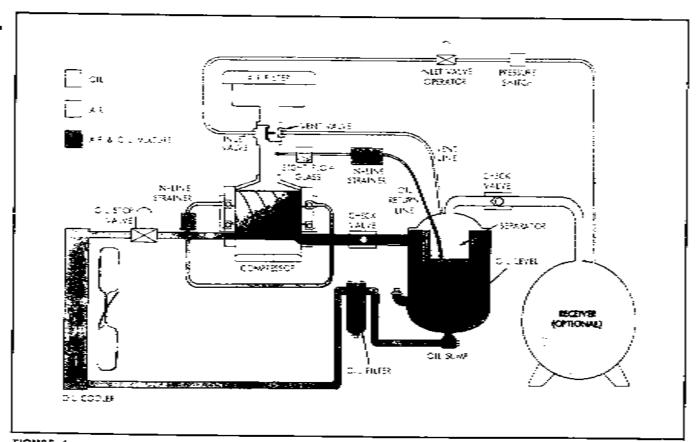


FIGURE 6 Oil-Air Flow Schematic

OIL SUMP

The oil sump contains all the oil required for the compressor operation. Oil is added through the fill fitting, see figure 7.

CAUTION

DO NOT REMOVE PLUG FROM OIL FILL FITTING OR ATTEMPT TO ADD OIL WHEN THE COM-PRESSOR IS OPERATING OR SUMP IS UNDER PRESSURE. TO ASSURE THAT THE COMPRESSOR WILL NOT AUTOMATIC. ALLY START, PUT LECTOR SWITCH ON CONTROL CENTER ΪN "OFF" POSITION PULL MAIN DISCONNECT SWITCH, SUMP PRES-SURE IS AUTOMATICAL-RELIEVED WHEN COMPRESSOR IS STOP. PED. TO INSURE NO LEAKAGE BACK FROM RECEIVER, ENTIRE SYS-CAN BE BLOWN DOWN BY CLOSING SER-VICE LINE VALVE AND THEN OPENING RECEIV. ER DRAIN VALVE.

NOTE

ALLOW 5 MINUTES FOR COMPLETE DEPRESSUR. IZATION OF THE SYSTEM.

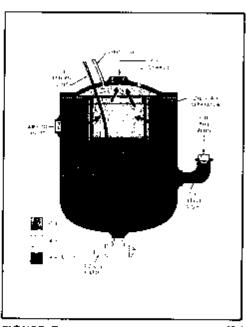


FIGURE 7
Cross Section Oil Sump and
Air-Oil Separator

OIL SUMP CAPACITIES

71/2 Horsepower unit 13/4 Gallons

10 Horsepower unit 2 Gallons

15 Horsepower unit 3 Gallons

CONTROLS

The Joy Twistair Compressor has a Dual Control System. This system provides for Automatic Start and Stop operation or Constant Speed operation. A selector switch mounted on the top of the Control Center is provided so that the operator can select the type of operation required.

CONTROL SELECTION

The method of control may be selected by placing the selector switch on the Control Center to the desired position.

The center position (toggle up) is the switch "off" position.

The left position (toggle left) marked "Const" is the constant speed position. In this position the compressor will continue compressing air until it reaches the pressure switch setting at which time it "unloads" (stops compressing air) but continues running at reduced power. When the pressure in the receiver drops to the low point pressure switch setting (100 PSIG with standard pressure switch and factory setting) the compressor starts compressing air and continues until the air pressure in the receiver again reaches the high limit setting. (120 PSIG)

The right position (toggle right) marked "Auto" is the automatic position (start-stop control). In this position the compressor will continue compressing air until it reaches the pressure switch setting at which time the compressor stops. Caution should be exercised when machine is not running since it might start without watning when switch is in this position. The compressor will remain off until the receiver drops to the low point pressure switch setting at which time the compressor will start again and continue running until it reaches the high limit of the pressure switch setting.

NOTE

IF OPERATING CONDITIONS ARE SUCH THAT THE INTERVALS OF MOTOR STARTS ARE MORE THAN FOUR TIMES AN HOUR, THEN THE SELECTOR SWITCH SHOULD BE MOVED TO CONSTANT SPEED POSITION.

METHOD OF CONTROL OPERATION

- A. The following Components make up the control system:
 - Pressure switch—adjustable means of controlling high and low limits of pressure in air receiver. Normally closed.
 - Inlet valve operator—(A solenoid operated valve) directs receiver air to and from the inlet valve.
 - 3. Compressor inlet valve.

- Vent valve—an integral part of the inlet valve vents air pressure in sump. Normally closed.
- Oil stop valve—Solenoid operated valve prevents oil from entering compressor when stopped. Normally closed (de-energized).
- High Discharge Air Temperature Switch—protects unit against high discharge air temperature—adjustable.
- B. When selector switch is moved to "Const" (constant speed):
 - 1. Compressor starts to run.
 - 2. Inlet valve opens.
 - Vent valve closes.
 - 4. Oil stop valve opens.

Compressor reaches max, set receiver pressure, unloads and continues running (not compressing). At unload, the following happens:

- 1. Inlet valve closes preventing air from entering.
- Vent valve opens-vents sump pressure through the inlet valve.
- Oil stop valve remains open supplying unloaded compressor with lubricating oil.

When receiver drops to preset minimum pressure:

- 1. Inlet valve opens starting compression.
- 2. Vent valve closes.

When compressor is stopped:

- 1. Inlet valve closes.
- 2. Vent valve opens venting sump.
- 3. Oil stop valve closes preventing oil from entering compressor.
- C. When selector switch is moved to "Auto" (automatic):
 - Compressor starts to run.
 - Inlet valve opens.
 - 3. Vent valve closes.
 - Oil stop valve opens.

When compressor reaches maximum set receiver pressure the motor stops and;

- 1. Inlet valve closes.
- 2. Vent valve opens.
- 3. Oil stop valve closes.

When receiver pressure drops to preset minimum:

- Motor starts.
- 2. Inlet valve opens.
- Vent valve closes.
- 4. Oil stop valve opens.

DRIVE

The Joy Twistair Compressor drive is equipped with Dodge Dyna-V belts. Because of their high horsepower rating, they must be operated at higher tensions than A, B, C, D and E belts. However, due to the flexibility of the small cross section, they may not feel as tight as would be expected for the tension they carry. Refer to procedure and the table on page 13 following for proper tensioning.

Proper V-belt tension and sheave alignment is extremely important to belt life, bearing life and power transmission. Correct tensioning and alignment was provided at time of shipment from the factory, however it is recommended that sheave alignment and V-belt tensioning be checked before initial start up. Belt tension should be checked several times during first 50 hours of operation

and periodically thereafter.

Replacing V-Belts

To replace the drive V-belts, first loosen motor hold-down bolts (1). Then loosen locknut (3) and adjustment screws (2) figure 8. Slide the motor toward the compressor to provide sufficient slack for belt removal and replacement. Tension belts by using motor adjustment screws (2). Check sheave alignment, adjust as necessary and then tighten hold down bolts (1) securely.

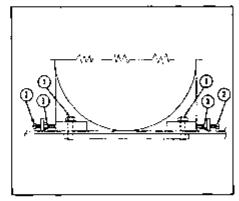


FIGURE 8

V-Belt Removal and Tensioning

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Belt Tensioning Procedure

- Place the belts in the sheave grooves and adjust motor adjustment screws, (2) figure 8. until belts are seated. Pull drive through by hand to equalize tension.
- 2. Measure the span length K, see figure 9.
- Apply the force (perpendicular to span at center of the span)
 required to deflect the belt 1/64" per inch of span length (K).
 See figure 9. The force can be applied by means of a simple spring scale.
- Compare the force required with the values given in Table I, page 13. The force required should be within the minimum and maximum values shown.

NOTE

A NEW SET OF BELTS SHOULD BE INITIALLY TENSIONED 1/3 GREATER THAN THE MAXIMUM VALUES SHOWN. SEE TABLE I BELOW.

Recheck tension of new belts two or three times in the first 50 hours of operation and adjust if necessary.

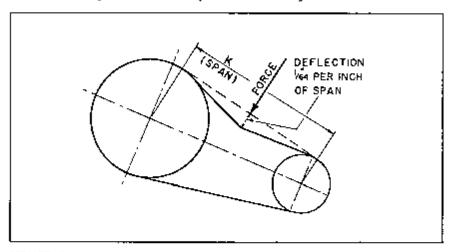


FIGURE 9
Measuring Forces

68-5

Table I Belt Tension Forces

H.P.	Deflection Inches	Initial Tensioning		mal LBŞ.
<u></u>	Inches	Force LBS,	Min.	Max.
7.5	13/64	5-2/3	3	4-1/4
10	13/64	5-2/3	3	4-1/4
15	13/64	5-2/3	3	4-1/4

Tension Testing Tool

A tension testing tool is available. This tool facilitates checking belt tensions. Scales are provided on the tool for reading both the required force and the distance of belt deflections which are used in properly tensioning belts as described above. Order by part number 543217.

Sheave Alignment

To align the sheaves, place a long steel straight edge across the rims of both sheaves. Always align the motor sheave to the compressor sheave. The straight edge must be flat across the compressor sheave. Horizontal alignment is determined by placing the straight edge close to the sheave's center. Swing the straight edge to the top and bottom of the motor sheave to determine vertical alignment.

COMPRESSOR OPERATION

Every Joy Compressor is operated and thoroughly tested at the factory before shipment. The test assures that the compressor will deliver its rated capacity and is in good working order. However, regardless of the care taken at the factory, there is the possibility that damage may occur in shipment. For this reason, it is recommended that the unit be carefully inspected for evidence of possible damage in shipment. During the first few hours of operation the machine should be observed for any possible malfunction.

CAUTION

DO NOT SET AIR PRESSURE SWITCH TO ALLOW THE COMPRESSOR TO RUN IN EXCESS OF 125 PSI.

PREPARATION FOR INITIAL START-UP

 Put selector switch located on control center in "off" position and pull main disconnect switch to assure that no power is going to the unit.

NOTE

THE STANDARD MACHINE UTILIZES TWO VOLTAGE SOURCES OF POWER FOR OPERATION:

- 115 VOLTS FOR CONTROL.
- 2. 230 or 460 VOLTS FOR MOTOR.

AN INTER-LOCK BETWEEN THE TWO CIRCUITS IS PROVIDED AS STANDARD EQUIPMENT.

CAUTION: DO NOT RUN 230 VOLT MOTOR ON 208 VOLTS (208 of 575 VOLT MOTORS ARE AVAILABLE AS OPTIONAL EQUIPMENT).

- Inspect unit and assembly for any visible signs of damage that could have occured in shipment or during installation.
- Fill sump to center line of fill fitting with oil as specified in Oil Specifications Page 8. If sump is over-filled, drain to proper level.

NOTE

TIGHTEN FILL FITTING PLUG SECURELY.
REMEMBER THIS IS A PRESSURIZED VESSEL.

4. Reconnect main disconnect switch.

CAUTION

JOG COMPRESSOR TO CHECK FOR PROPER DIRECTION OF ROTATION AS INDICATED BY DIRECTION ARROW ON DISCHARGE END BEARING CAP. IF DIRECTION OF ROTATION IS WRONG, CORRECT BY RE-CONNECTING THE MOTOR LEADS TO OBTAIN PROPER ROTATION DIRECTION.

- Close receiver discharge valve and move selector switch to desired operating position. Constant speed setting is recommended for initial start-up.
- With receiver discharge valve closed, let machine pump up to operating pressure; at this stage the automatic controls will take over.
- 7. Open receiver discharge valve.
- After unit has run for several minutes, shut it down and check oil level. It may be necessary to add oil to compensate for the amount of oil needed to fill the entire system.

NOTE

NO BREAK-IN PERIOD IS REQUIRED. THE MA-CHINE CAN BE PUT IN FULL OPERATION IM-MEDIATELY.

EMERGENCY SHUT-DOWN

To manually shut down the compressor in case of an emergency, put selector switch located on electrical Control Center to "off" position.

RESTART AFTER POWER FAILURE

If unit shuts down due to power failure, first check for blown fuse then restart by resetting starter button.

PERIODIC MAINTENANCE SCHEDULE

In order to obtain continued satisfactory performance, the following maintenance schedule should be observed. As with all machinery, a properly maintained maintenance schedule must be followed.

NOTE

THE FOLLOWING SCHEDULE IS BASED UPON NORMAL OPERATING CONDITIONS. IN AREAS OF UNUSUAL ENVIRONMENT, THE MAINTENANCE SCHEDULE SHOULD BE ADJUSTED TO ALLOW FOR EXISTING CONDITIONS.

CAUTION

BEFORE ATTEMPTING ANY OF THE FOLLOWING, BE SURE TO PULL MAIN DISCONNECT SWITCH TO ASSURE THAT NO POWER IS GOING TO THE UNIT.

Daily:

- 1. Drain condensate from receiver.
- Read the separator differential indicator to observe the condition of the air-oil separator element. The amount of red showing indicates the degree of restriction across the oil-air separator. When indicator shows all red, the separator element should be changed.
- Observe the oil return line sight glass to determine if oil is flowing. A light air-oil mist is normal.

Weekly:

- Through bulls-eye sight glass in oil fill elbow check sump oil level, add oil as required. Check only when unit is warm, If compressor has not been in operation, run for several minutes to warm up. When adding oil do not mix different types and brands of oil.
- Check pressure switch adjustment by observing receiver pressure gauge. Adjust if necessary.

Each 30 Days:

- 1. Clean accumulated dust and lint from oil cooler fins.
- 2. Clean and service air cleaner. If element is damaged, replace.
- Test air temperature switch. It should shut down the unit at discharge air temperature of 200°F. See page 19 for test procedure.

NOTE

THESE TWO STEPS MUST BE PERFORMED MORE FREQUENTLY IF COMPRESSOR IS OPERATING IN AN ENVIRONMENT THAT HAS AN EXTREMELY LARGE AMOUNT OF DIRT OR LINT PREVAILING.

Twice Yearly or Every 1000 Hours:

Whichever comes first:

- Change oil in sump.
- 2. Change oil filter element.
- Check oil-air separator element and change if damaged or extremely dirty.
- Remove and inspect drive bearing lube line strainer element.
 Clean by blowing out with a reverse flow of air. If damaged or badly contaminated, replace with new element.
- Remove and inspect oil return line strainer element. Clean by blowing out with reverse flow of air. If damaged or badly contaminated replace with new element.

Motor Lubrication

Grease lubricated motors are properly lubricated at the time of manufacture and it is not necessary to re-lubricate prior to initial start-up. However, if motor has not been run for a period of 6 months or longer, it is recommended that it be lubricated before starting.

For the type of lubricant to use and the method of lubrication contact local motor manufacturer's representative. See motor name-plate for motor identification.

CLEANING AIR FILTER ELEMENT

Wash filter element in warm water solution of household detergent. Do not oil or clean with gasoline, kerosene, or any other volatile liquid.

REPLACING OIL-AIR SEPARATOR ELEMENT

- Disconnect vent line, oil return line and discharge line from sump.
- 2. Remove head from sump.
- 3. Lift off gaskets and lift out oil-air separator element.
- Install new oil-air separator element and new gaskets.
- 5. Replace sump head and tighten.
- 6. Reconnect vent line, oil line and discharge line.

REPLACING OIL FILTER ELEMENT

- 1. Drain oil from sump at "T" fitting below oil filter.
- 2. Remove filter base.
- 3. Replace filter element with gasket end up.
- 4. Replace filter base.
- 5. Refill oil sump. (See Instructions Page 9)

INSTALLING OIL SEAL

When installing new oil seal on rotor shaft, make sure garter spring is toward the compressor. These parts are illustrated in

figure 17 of the Parts List Section, Page 36. To protect oil seal, oil shaft and place a piece of shim stock or similar material over the keyway when sliding seal onto shaft.

PRESSURE SWITCH ADJUSTMENT

Range Adjustment—The "On" and "Off" pressures at which the switch has been set will be found marked on the nameplate on the cover. If it is desired to raise the "On" and "Off" settings, turn the screw, item "B", clockwise. Turning the screw counter-clockwise will lower the "On" and "Off" settings.

Differential—The differential is the difference between the "On" and "Off" settings. This setting is made at the factory and should require no further adjustment. If the "On" and "Off" settings are decreased, the differential will increase slightly. Varying the differential adjustment does not affect this "Cut-out" pressure setting. The differential can be increased or decreased slightly if necessary. Turn nut item "A" clockwise to increase the "Cut-in" pressure

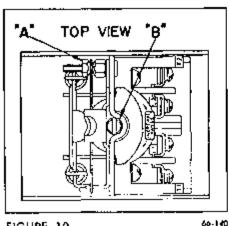


FIGURE 10 Pressure Switch Adjustment

setting and counter-clockwise to decrease the "Cut-in" pressure setting. Do not over adjust the differential setting.

CARE

- No special maintenance is required.
- The silver contact tips should not be filed or dressed. Renew the complete set of contacts and springs before the silver tips have worn away.
- Do not lubricate any part of this switch.

NOTE

SOME UNITS MAY BE EQUIPPED WITH A PRESSURE SWITCH THAT HAS A DIFFERENT ADJUSTMENT PROCEDURE THAN THAT DESCRIBED ABOVE. IN THIS CASE, ADJUSTMENT PROCEDURES WILL BE FOUND ON INSIDE OF CONTROL CENTER DOOR.

NOTE

IF OPERATING CONDITIONS ARE SUCH THAT THE INTERVALS OF MOTOR STARTS ARE MORE THAN FOUR TIMES AN HOUR, THEN THE SELECTOR SWITCH SHOULD BE MOVED TO CONSTANT SPEED POSITION.

TESTING HIGH AIR TEMPERATURE SWITCH

To test the high air temperature switch loosen lock nut under adjusting knob (turn counter clockwise), manually and set it to a temperature of approximately 125 F., start machine and see if it shuts the machine down.

After shut down by this switch, reset manually to proper 200°F, setting and tighten lock nut under adjusting knob (turn clockwise). To restart the machine, procede as follows:

- 1. Move selector switch to "Off" position,
- 2. Push re-set button on top of switch.
- 3. Move selector switch to desired position.

TROUBLE SHOOTING

In checking out any malfunction, check out obvious and simplest steps first.

WARNING

WHEN CONTROL IS SET FOR AUTOMATIC START AND STOP OPERATION, PERSONNEL SHOULD BE CAUTIONED THAT THE UNIT MAY START ANY TIME.

CAUTION

NEVER SERVICE OR WORK AROUND MACHINE WITHOUT PUTTING SELECTOR SWITCH IN OFF POSITION AND DISCONNECTING MAIN POWER SWITCH.

SYMPTOM	PROBABLE CAUSE
Failure to Start	 Power Failure Blown Fuse Faulty Start Switch or Connection Overloads Out* Reset Button on High Air Temperature Switch Requires Resetting.
Shut Down	 Power Failure Blown Fuse Overloads Out* 230V. Installation with 460V. Motor Wiring 460V. Installation with 230V. Motor Wiring High Discharge Air Temperature

⁶High ambient operating temperatures in some cases may cause overload relays to kick-out. These relays have an adjustment of up to 15% to compensate for this condition.

(Continued next page)

TROUBLE SHOOTING CONT'D

SYMPTOM	PROBABLE CAUSE
Low Receiver Pressure	1. Excessive Air Demand 2. Open Air Service Line 3. Leak in Air Service Line 4. Faulty Pressure Switch 5. Inlet Valve Not Operating 6. Safety Valve Leaking 7. Leak in Air Receiver 8. Vent Valve Open or Faulty 9. Receiver Drain Valve Open or Faulty 10. Faulty Discharge Check Valve 11. Faulty Sump-to-Receiver Check Valve
High Receiver Pressure	 Faulty Pressure Control Switch Inlet Valve Not Closing Faulty Vent Valve
High Discharge Air Temperature	 Insufficient Air Circulation at Oil Cooler Due to Poor Location Oil Cooler Fins Dirty or Plugged Low Oil Level in Sump Plugged Oil Filter or Oil Line Bent Fan Blades
Excessive Oil Consumption or Oil in Service Line	 Defective or Plugged Oil-Air Separator Assembly Plugged Oil Return Line Oil Sump Overfilled Operating Below Rated Pressure
Frequent Oil-Air Separator Element Plug-Up	 Improper Grade Lube Oil Dirty and Contaminated Oil Defective or Improper Air Intake Filter
Oil Seal Leaks or Flips	Check Compressor Discharge Check Valve for possible malfunction

AIR COMPRESSOR OPERATING AND SAFETY PRECAUTIONS

Because an Air Compressor is a high speed, totating piece of machinery, the same common-sense safety 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, we are suggesting additional safety precautions as listed below:

Pull main disconnect switch and disconnect any separate control lines, if used, before attempting to work or perform maintenance on the unit.

Do not attempt to remove any compressor parts without first relieving the entire system from pressure.

Do not attempt to service any part while machine is operating.

Do not operate the compressor at pressures in excess of its rating as indicated on the Compressor Nameplate.

Do not operate the compressor at speeds in excess of its rating as indicated on the Compressor Nameplate.

Do not remove any guard shields or screens while the compressor is operating.

Observe terminal pressure gauge daily to be sure automatic control system is governing compressor operation within proper limits.

Periodically check all safety devices for proper operation.

Inspect all hoses regularly. Replace if becoming brittle.

Do not play with compressed air. Pressurized air can cause serious injury to personnel.

Be sure no tools, rags or loose parts are left on the compressor or drive parts.

Do not use flammable solvents for cleaning parts.

Exercise cleantiness during maintenance and when making repairs. Keep dirt away from parts by covering parts and exposed openings with clean cloth or kraft paper.

Do not operate the compressor without guard shields or screens in place.

Do not install a shut-off valve in the discharge line, without installing a safety relief valve in the line between the shut-off valve and the compressor discharge.

Do not use compressed air for air breathing unless it is known to be properly purified for such use,

Do not operate compressor in areas where there is a possibility of ingesting flammable or toxic fumes.

Pressure vessels (Receivers, Aftercoolers, Intercoolers) may require ASME code stamping to meet local codes. Investigate code requirements before operation to make sure all requirements have been met.

The owner, lessor, or operator of the Compressor is hereby notified and forewarned that any failure to observe these Safety Precautions may result in damage or injuty.

Joy Manufacturing Company expressly disclaims responsibility or liability for any injury or damage caused by failure to observe these specified precautions or by failure to exercise that ordinary caution and due care required in operating or handling the Compressor, even though not expressly specified above.

PARTS LISTING

INTRODUCTION

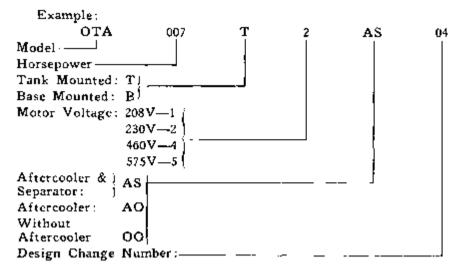
This Parts Book has been designed to furnish you a method to identify and order replacement parts for your Joy Twistair Compressor. Each part on the machine is identified and called out in the following pages of this book.

HOW TO USE PARTS BOOK

Using the index below, determine the assembly group in which the part is located, and the page on which the group illustration and listing is shown. Locate the part on the illustration, its reference number in the parts listing will give you the description and number of the part. Be sure to obtain part number from its proper model number column. If in doubt of model number refer to name-plate on the machine.

MODEL DESIGNATION

The model number includes the class, horsepower, whether tank or base mounted, voltage and design change number.



HOW TO ORDER PARTS

When ordering parts, be sure to include model and shop number of machine for which the parts are required. Give part number and description of each part or assembly needed. Do not order by "sets" or "pairs" unless specifically noted as such in the parts listing. Do not use illustration reference numbers when ordering parts.

IMPORTANT NOTICE

Orders for parts will not be accepted at the factory. All parts orders should be placed with your Joy Twistair Compressor Distributor or nearest Joy District Office. If you do not have your distributor's name, or location, it can be obtained from the Joy District Office serving your area.

Joy District Offices are located in the cities listed below. Addresses can be found in their respective telephone directories.

Atlanta, Georgia
Bellevue, Washington
Cleveland, Ohio
Dallas, Texas
Denver, Colorado
Devon, Pennsylvania
Hillhouse Company,
Birmingham, Ala.
Hillside, Illinois
Knoxville, Tennessee

Linden, New Jersey
Los Angeles, California
Marrick Company, Louisville, Ky.
Minneapolis, Minnesota
New York, New York
Oak Park, Michigan
St. Louis, Missouri
Salt Lake City, Utah
San Francisco, California
Wilmington, Massachusetts

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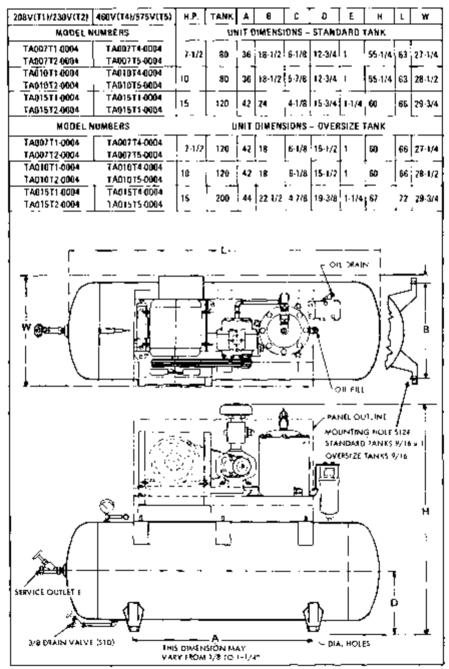


FIGURE 1). GENERAL ARRANGEMENT TANK MOUNTED UNITS

DATA		MODELS	
208V	TA00781-0004	TA010B1 0004	TA01581-0004
230V	TA00782-0004	TA010B2-0094	TA015B2-0004
460V	TA00784-0004	TA01084-0004	TA01584-0004
575V	TA007 B5-0004	TA01085-0004	TA01585-0004
H.P.	7-1/2	10	15
l	43-3/8	47-3/8	51-5/B
Н	32-1/4	32-1/4	32-1/4
W	27	28-1/2	29-3/4
0	1	1	1-1/4
Α	17	17	21
В	9-3/8	11-3/8	13-3/8
<u> </u>	12	13-1/2	14
D	5-7/8	6-7/8	7-7/8
E	2-3/4	1/8	2-1/2
F	21-1/4	21-3/4	22-5/8
G	11-1/4	12-1/4	13-1/4
<u> 1</u>	36	40	44-1/4
K	9-5/16	8-1/16	8-1/16
		PANEL CUTLET	B AGUINTING HOLE F/16
*	A		

FIGURE 12. GENERAL ARRANGEMENT BASE MOUNTED UNITS

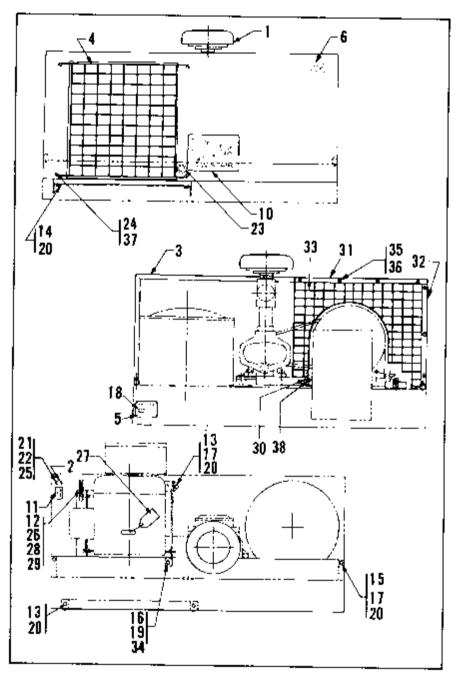
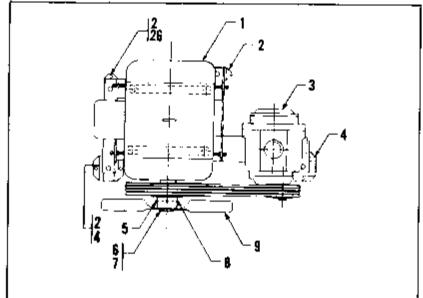


FIGURE 13. FINAL ASSEMBLY PARTS

PARTS LIST FOR FIGURE 13. FINAL ASSEMBLY PARTS

		7		MODELS	
Ref.	Description	Qty	TA007B TA007T	TA010B TA010T	TA015B TA015T
_	FINAL ASSEMBLY PARTS	1	707063-13	707063-14	707063-15
' 1	. AIR FILTER	1	543176	543176	543176
	FILTER ELEMENT	1	1660263	1660263	1660263
_	FILTER HOOD	1		543201	543201
2	. GROUND LUG	1	600704-217	600704-217	600704-217
3	, PANEL ASSEMBLY	. 1	3660844	3660845	3660846
'4,	. GRILLE	1	3680312-1	3660312-2	3660312-3
5	. NAMEPLATE	: 1	1660327	1660327	1660327
6	. DECAL - JOY WORLD	1	1660364	1660364	1660364
7	. DECAL - HOT OIL	1	1660369	1660369	1660369
₽	. DECAL - HIGH VOLTAGE	1	1660370	1660370	1660370
9	. DECAL - MAINTENANCE	1 1	1660988	1860988	1660988
10	. DECAL - TWISTAIR	1	1660412	1660412	1660412
11	. DECAL - ELECTRICAL				:
	GROUND	1	1860477	1660477	1660477
12	, GROUND STRAP	1	1660689	1660689	1660689
13	. CAPSCREW	' 9	900020-3	900020-3	900020-3
14	. CAPSCREW	2	900020-3	900020-3	900020-3
15	. CAPSCREW	2	900020-13	900020-13	900020-13
16	, HEX NUT	; 1	900160-2	900160-2	900160-2
17	. HEX NUT	10	900160-4	900160-4	900160-4
18	. DRIVE SCREW	4	900258-13	900258-13	900258-13
19	. LOCK WASHER	1	900302-1	900302-1	900302-1
20	. LOCK WASHER	14	900302-3	900302-3	900302-3
	. MACHINE SCREW	1	900337-126	900337-126	900337-126
22	, HEX NUT	1	900401-14	900401-14	900401-14
23	. GROMMET	' 1	901413-16	901413-16	901413-16
24	. TRUSS HEAD SCREW	4	905498-60	905498-60	905498-60
	. LOCK WASHER	1	905630-6	905630-6	905630-6
26	. Capscrew	1 1	900020-13	900020-13	900020-13
27	. TAG	1	543220	543220	543220
28	. LOCKWASHER	1	905630-20	905630-20	905630-20
29	. LOCKWASHER	1	905630-26	905630-26	905630-26
	. GUARD SUPPORT	1;	1660710	1660710	1660710
	. GUARD BRACE	1	1680713-3	1660713-5	1660711-2
	. GUARD BRACE		1660713-4	1660713-6	1660713-7
	. FAN GUARD		1660714	1660715	1660716
	. CAPSCREW		900020-390	900020-390	900020-390
35 1	r		905498-84	905498-84	905498-84*
36	. SPEED NUT	6	909088-2	909088-2	909088-2
37	. SPEED NUT		909115-8	909115-8	909115-8
38	. INSULATION BUSHING	. 1	901418-1	901418-1	901418-1
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^{*}Quantity is 7.



Instructions for installing Fan Hub

- 1. Clean mater shaft and fan hue bore with solvent. 4. Install selscrew and tarque as follows:
- 2. Assemble fan hub on shafs; do nat lubrigate,
- 3. Use Lastite type C (4-1) or equal in setscrew hale that engages shall only. Do not use an key setscrew. Allow Eachite to seep onto shaft through hale
- - 7-1/7 H.P. Unit 87 inch pounds
 - 10 H.P. Unit 165 inch paumás
 - :5 H.P. Us/1 165 Inch pounds

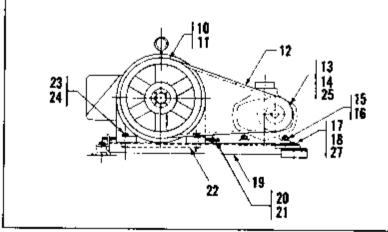
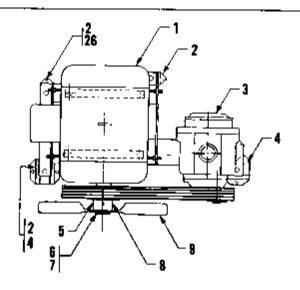


FIGURE 14. MOTOR AND COMPRESSOR (230 VOLTS=460 VOLTS)

PARTS LIST FOR FIGURE 14. MOTOR AND COMPRESSOR (230V-460V)

	 	' 		MODELS	
Ref. No.	Description	Qty	TA007B TA007T	TA010B TA010T	TA015B TA015T
- [MOTOR AND COMPRESSOR ASSEMBLY	1	543212-1	- 54321 2 -2	543212-3
1	, SQUIRREL CAGE IN- DUCTION MOTOR	1	5 2 6398-161	5 26 398-162	526398-163
2	. JSOLATOR	2	543207 -	543214	543214
3 1	. COMPRESSOR ASSEMBLY	1	543077-8	543077-8	543077-8
4	, ISOLATOH	2	Not Used	543207	543207
5	. SCREW, SET SOCKET HEAD!	2	900532-62	900532-91	900532-91
6	. MACHINE SCREW	4	900802-118	900802-118	900802-114
7 '	. LOCK WASHER	4	900302-57	900302-57	900302-57
В.	. FAN HUB	Ι.	1660663	1680707	1660682
9	FAN	1 ¦	543026	543027	543028
10	. MOTOR PULLEY	1	1660652-2	1660652-3	1660652-6
11.	, MOTOR BUSHING	1	527490-2	527489-1	A211184-9
12	, V-BELTS (Matched Set)	1	909120-335	909120-337	909120 –34 :
13	. COMPRESSOR PULLEY	i	1660652-1	1660652-1	: 166 0 652-1
14	. BUSHING COMPRESSOR	1	527490-1	527490-1	527489-3
15	, HEX NUT	2 ,	900160-5	900160-5	900160-5
16	LOCK WASHER	2 '	900306-4	900306-4	900306-4
17	. CAP SCREW	4	900020-14	900020-14	900020-14
18	. LOCK WASHER	4	900302-4	900302-4	900302-4
19	. SUB BASE	-1 l	3660685	3660684	3660681
20 :	. SET SCREW	4	900108-75	900108-75	900108-75
21 '	, HEX NUT	4 ;	900160-4	900160-4	900160-4
22 ,	, MOTOR RETAINER	2	1660686	1660682	1660682
23	, CAP SCREW	4	900020-33	900020-33	900020-33
24	, LOCK WASHER	4 ;	900302-3	900302-3	900302-3
25 '	, SHAFT SPACER	1	1660700	1660700 i	1660700
26	. ISOLATOR	1	543214	Not Used	Not Used
27	. PLAIN WASHER	2 '	900317-5	Not Used	Not Used



Instructions for installing Fan Hab

- 1. Clean motor shalf and fan hub bore with salvent.
- 2. Assemble fan hub on worft; do not lubricate.
- Use Localite type C (4-1) an equal in sersorew hale that engages shalt unity. Do not use on key setscrew. Allow Localite to seep anto shalt through hare.
- 4 Install setscrew and to; que as fallows:
 - 7-1/2 M.P. Unit 87 incheboords
 - -0 H.F. Unit 165 inch pounds
 - To H.P. Unit 165 inchipounds

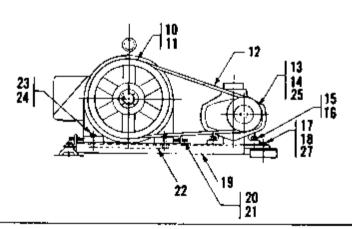


FIGURE 15. MOTOR AND COMPRESSOR (208 VOLTS - 575 VOLTS)

PARTS LIST FOR FIGURE 15. MOTOR AND COMPRESSOR (208V-575V)

i		٠.			···— MBCJE	ELS		.,
#c4.	Description	Qr,	1 A001B, TA001T - 208 Volte	TAMPR TAMPT 525 Volts	TAGIGB, TAGIRT 208 Volts	TAOIDB, TAOIDT 575 Volta	TA015B, TA015T 208 Volts	TA015H, TA015T 575 Volth
' - :	MOTOR AND COM- PRESSOR ASSEMBLY	_	343212-6	540212-11	543212-7	543212-12	343212-8	543212-t3
1	1. SQUBREE CAGE IN- DUCTION MOTOR	1	526398-213	526358-822	526398-214	526596-923	526398-215	526396-224 ;
2	. J800.ATOR		540209 *	549207 -	540214	543214	543214	543224
_ ° 1	. COMPRESSOR ASSY	: 1	543072-H	549077-R	943077-8	549077-8	543079-8	543027-8
4 1	, 1801,ATOH	3	Not Deed	Not Osed	5 63247	543207	540200	543207
٥.	. SCREW, SET SKT. RD.	2	980532-62	300532-52	900033-91	900532-91	900532-91	9005/12-91
1 "	. MACHINE SCREW	4	990802-118	900802-118	500802-1(8	900802-118	900802-118	900802-118
7	. LOCK WASHER	١ ١	200802-57	900002-57	900302-57	900302-57	900302-57	900302-57
. A	FAN HUB	ļ į	1660680	1660663	7070861	1660 7 01	1660662	1860662
9	FAN	- 1	543026	543026	543027	543027	543028	543028
16	MOTOR PULLEY		1600652-2	t680652-2 ¹	1660652+3	1660652-3	1660RSZ-6	1660652-R .
11	. MOTOR BUSHING		527490-2	525490-2	627489-1	527489-1	A211384-9	. AZIIIH4-9 :
12	. V-SULTS (Mitchel Set)	' ı	909120-035	909120-315	800120-031	909124-337	909120-345	909120-345
13	. СОМР. РЕЗЕДВУ	1	1669652-1	1640652-1	1668652-1	1660652-1	1660652-11	1660652-11.
14	. BUSHING COMP.	1	523490-1	527490-1	521490-1	527490-1	527469-3	527489-3
15	, HEX NUT	2	900160-5	200100-5	900160-5	900160-5	900360-5	900160-5
. 16	LOCK WASHER	2	900006-4	9NC396-4	900306-4	900306-4	900306-4	900306-4
11	, CAP SCREW	1	900026-14	900020-14	980020-14	980020-14	900020-14	900020-14
18	, LOCK WASHER	4	900303-4	900002-4	900002-4	9000002-4	900303-4	900302-6
19	. SUB BASE	١.	36606k5 j	3660€85	36606H4	3560584	3660681	3660683
j 20	SELSCREW	4	900108-75	990108-75	900108-75	900 COH-75	900108-75	900108-75
21	. H5X N . r	4	990160-4	500100-4	900168-4	500160-4	900180 4	900160-4
22	. MOTOR RETAINER	2	1660686	1860680	1569682	1660682	1600082	1660682
39	. CAP SCREW	4	900020-33	300020-33	900020-33	900020-33	900020-33	9R60Z0-33
24	, LOCK WASHER	4 -	906302 3	9000002-3	900002-3	900302-3	900302-3	900302-3
25	, SHAFT SPACER	ι.	1660200	15507110	1660700	1689700	1660700 .	1660700
29	. INDUATOR	ι	543236	543214	Not Used	Not Used	Not Used	Not Cked
27	. PLAIS WASHER	2 1	900317-5	900331-5	Not Used	Not Used	Not Used .	No tad
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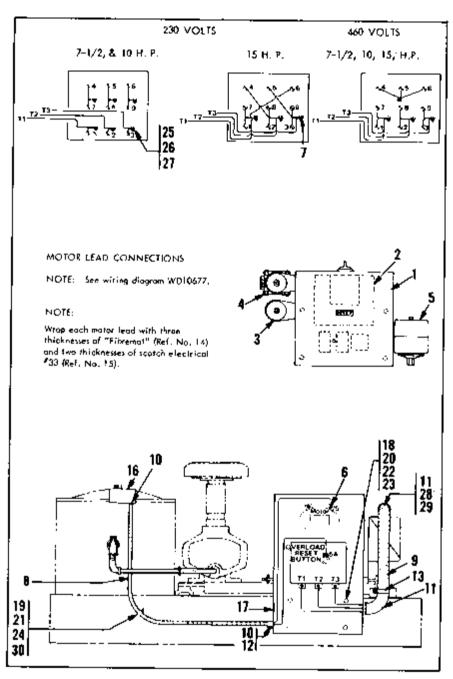


FIGURE 16. MISCELLANEOUS ELECTRICAL PARTS (230V-460V)

PARTS LIST FOR FIGURE 16, MISCELLANEOUS ELECTRICAL PARTS (230V-460V)

—	Moners						i	
	i			•	1	ELS		
Ref., No.	Descri p tion	Qty	TA007B2, TA007T2 280 Yolks	* TARRIDA ************************************	TAGIOBZ, TABIOT2 \$30 Valls	TA010B4, TA010T4 450 Valls	YA015B7, TA01572 230 Volts	TA01584, TA01574
' — ·	MISC, ELEC, PARTS	٠,	707069-23	707 06 9-18	707069-14	707069-19	70 106 9 - 15	701069-20
ا،	. CONTROL CENTER	i	543110	543090	543311	543091	543112	543892
2	. STARTER-	ı	526398-135	526359 - 168	5281A9-136	526399.119	526399-13T	526399-120
	STARTER**	ī	600742-428	600742-428	600742-429	fi00742-428	600743-429	600742-429
_ '	OVERLOADHTR.*	1 2	800714-739	600714-758		600714-736	800714-746	800714 · 74T
	OVERLOADHTR.**	2	600707-42	600707-36	600707-44	800707-39	600107-4	600707-2
_	SELECTORSW.*		600701-207	6D0TD1-307	SNOTOL-307	800701-307	800001-307	600701-337
! _	SELECTOR SW.**	1	600701-360	600701-360	600701-380	600701-360	890701-360	500701-350
	CONT.RELAY	12	600744-156	600744-155	500T44-136	600744-ES5	500744-156	500144-155
· _	RELAY COLL-	¦	600714 729	600714-780	600714-779	G00714-78N	600714-779	600714-7HQ
	CONTINELAY**		800744-176	600744-177	000744-175	G00744-ET7	680744-176	600744-171
_ i	RELAYCOL.	1	600714-812	600714-813	600714-812	600734-831	600714-812	600714-H11
_	TERMINAL BLOCK	;	800714-126	800714-126		600734-176	600714-126	G00714-115
	ENCLOSCHE	;	3580584	3660265	3680665	3860266		3660261
-	SOLENOTO VALVE	í	800734-136	600734-136	600734-136	600734-136	800734-136	800734-135
	SOLENOD VALVE	. ;	800734-135	800734-135	600734-135	690734-135	600734-135	600731-135
j 5!	PRESSURP SWITCH	;	543142	543142	543142	543142	543142	543142
"	. TERMINAL WIRE	;	600608-7	600408-T	800608-7	600608-7	500508-7	600608-7
"		ļ ,	800 6 08-8	800608-9	800808-12	600808-12	600606-14	60060H-14
	, TERMINAL WIRE		600702-2	800702-2	600702-2	800702-2	600702-2	600702-2
1 1	. CONDUIT	-			800702-2	6 0 0702-2	600702-2 600702-5	600702-2 600702-5
أيا	. CONDUIT	_	500702-4	600702-4				
10	CONNECTOR	2	600703-2	600703-2	800703-2	800703-2	800703-2	600703-2
: 11	. ELBOW	2	600703-15	600703-15		600703-15	60 07 03-86	600703-16
12	. SLEEVE	2	800714-717	600714-717	600734-717	F00714-717	500714-717	600714-713
13	. SLREVE	2	. 800714-718	800714-719	600714-719	600716-719	500714-720	600714-720
14	, TAPE	-	800714-724	800714-724	800714-3241	600716-724	500714-724	000714-724
	, TAPE	-	600714-725	800784-725	600714-925	600714-725	600714-725	800714-725
16	. HIGH TEMP, SWEECH	ı	600785-200	600715-200	6007 85-200	600715-200	600715-200	800715-200
. 17	. KNDCKOUT PLUG	ı	6DQ093-1	600093 - L	600090-1	600093-1	600093-1	600090+1
; 14 j	. CAPSCREW	٠.	900020-23	9000 20-23	800Q20-23	800020-23	900020-23	900020-20
. 19	. HEX NUT	1	900160-2	800160-2	900150-2	9D01R0-2	900160-2	900160-2
20	. HEX SUT	•	900360-4	800160-4	900150-4	900150-4	900160-4	900169-4
-, 21	. LOCKWASHER	1	200303-1	900302-1	900302-1	900302-1	900302-1	900302-1
22	LOCKWASHER	•	900302-3	900302-3	900302-3	900302-3	800302-3	900307-3
23	. PLAINWASHER	•	900322-9	900322-9	900322-9	900322-9	900372-9	900322-9
24	SCREW	1	9000 35 - S03	900333-503	900333-500	900033-503	900233-503	900333-943
25	. HEX NUT	3	900399-14	900398-14	500389-14	900399-14	900359-14	900399-14
26	. LOCKWASJIER	3	900609-4	900009-4	900009-4	900009-4	800609-4	900609-4
27 j	. MACHINE SCHEW	3	900802-02	900802-92	900802-92	900802-92	900HDZ-92	900H0Z-9Z
28	REDUCING BUSHING	1	Not Used	Not Used	901160-13	901160-13	Not Used	Not tised
39	LOCK NOT	1	Not Used	Not Used	901492-3	901402-3	Not Used	Not Cod
30 ¦	. COMBUIT CLAMP	1	905299-28	905299-26	905298-28	905299-26	905299-26	903299-26
	These Dans Dans	 	Control Con-	 	and he made	- U		
1	* These Parts Particula ** These Parts Particula							i I
	· · · · · · · · · · · · · · · · · · ·	J- 10	Control CAM	era manuact	used by Gener	an Buccurie C	41.	
	·							∟∟ ∣

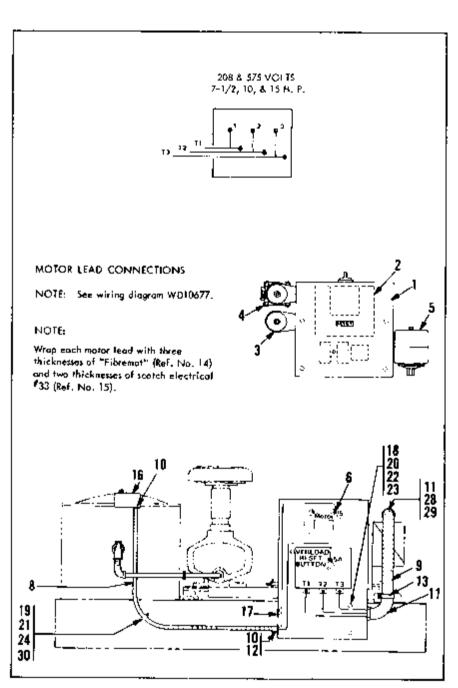


FIGURE 17. MISCELLANEOUS ELECTRICAL PARTS (208V-375V)

PARTS LIST FOR FIGURE 17. MISCELLANEOUS ELECTRICAL PARTS (208-575V)

Γ^{-}	T:	Ţ	Monres					
Ref, No.	Description	Qıy I	TA00TB1, TA00TT1 208 Volta	TA007B5, TA007TS 575 Volts	TA01001. TA010T1 208 Volta	TACIONS, TACIONS 535 Volts	TAGISTI, TAGISTI 208 Voles	TA01582, RA015T5 575 Volta
' - i	MISC, ELEC, PARTS	ī	707059-24	707069-29	707089-25	107068 30	TU7069-26	T07069-31
, 미	. CONTHOL CENTER		543231-1 .	543231-6	543211-2	540201-7	543231-7	543231-8
2	STARTER*	ι	526399-195	526399-168	526399-136	526399-119	528399•187	526399+120
!	STARTER **	1	60074Z-4ZB	500742-4 2 8	600342-429	60GT47-41R	1.00742-429	800742-4291
- '	OVERLOADETR.*	2	4600714-795	500714-78R	R00714-729	600714-738	G00714-798	600714-881
I –	OVERLOADHTR.**	Z	600707-43	600707-33	600307-0	606707-37	6007 0 T-5	690107-40
ı -	SELECTOR SW.*	1	60070]-307	600101-202	600201-307	600701-307	600701-397	600701-307
j -	SELECTOR SW.**	1	600701- 3 60	600701-360	600301-360	600701-360	600701-860	600701-560
	CONTROL RELAY*	3	600744-165	600744 163	600744-165	600744-183	600744 - L65	800744-163
i - '	RELAY COIL*	1	600714-784	600714-TBL	RO0384-T84	600714-781	600714-784	800714-781
' - !	CONT. RELAY **	2	500744-LT5	600744 178	500344-875	600744-178	600244-175	600744-178
	RELAY COLL**	1	600714-809	600714-816	608714-889	600714-816	600734-609	600734-816 !
-	TERMINAL BLOCK	1	600714-126	500714 -128	600314-126	600714-126		600334-158
-	ENGLOSUIES	1	3660664	3660365	3660665	3660266	3 600666	2660257
; * ,	SOLENODO VALVE I	,	800734-136	600134-136	609324-136	600734-106	600334-736	. 400134-736 -
j : i	SOLENOU VALVE	1	600734 - 835	GOU734-135	B00324-135	600734-135	600734-135	600134-135
5	PRESSURE SWITCH		563142	543142	543142	543142	543]42	543142
fi fi	TERMINAL	1	600608-7	Ç Ç 0ROH-3	F00608-T	600003-7	60060H-T	B00608-1
7	TERMINAL	3	6000D8 9	E00608-9	600608-12	600608 · 12	600008-14	600608-14
ه ا	CONDUIT	_	600702 2	600702-2	600702-2	400702-2	600702+2	600702-2
	COMPART	-	500702-4	6 00 702- 4	600702-4	600702-4	600702-5	600702-5
1 10	. CONNECTOR	2	v00203-8	600703-2	R00703-2	R00703-2	600008-Z	000109-2
. 13		2	600703-15	6007RT-LS (600,00 • 12	600703-16	600103-10
! 12	. SLAEVE	2	500714-717	600714-717	600714-217	60 0 714-717	600114-717	600714-72T
1.1	. SUEEVE	2	600714-719	600714-715	GON784-319	#00TL4-739	600714-720	l
\$4	. TAPE	-	GR0114-724		600714-724	500714-724	600714-724	800714-724
. 15	. TAPE		600714-725	000714-725	500714-725	600714-725	600714-725	600714-725
16	, HIGR TESTS SWITCH	1	680715-200	500715-200	900715 200	600715-200	- 600715-200. -	
17	, KNGCKOUT PLUG	1	600093-1	600093- L	600093-1	600093-1	600093-L	\$99093-1
. 18	CAPSCROW	÷	980050-23	500020-23	900028-22	900020-20	B00020-23	900020-23
10	. HEX NOT	1	900160-2	960160-3	900160-2	900 Hid-2	900160-2	900160-2
20	. HEX NUT	+	000160-4	900160-4	900160-4	900160-4	900160-4	900160-4
. 31	, TOOKWASHER	1	200002-1	900302-1	900302-1	900302-1	900302-L	906102-1
22	LOUKWASHED	4		900302+3	900202-3	900302-3	980382-9	900302-3
. 23	PLAINWASHER	4	980222-9	900322-9	900322-9	900323-9	500322-9	900322-9 I
: 14	, SCREW	:	300733-703	900333-503	900313-508	900333-503	900331-503	9000333-500
1 25	. HEX YLT	1	20(099-14	000399-04	90f30f-14	900399-14	900399+24	900399-14
2c .	COCKWASHEN	:I	900609-4	800009-4	RO050B-4	900609-4	900509-4	800609-4
27	MACKINE SUREW		909н02-92	900602-92	900802-92	900HP2-92	900802-92	900802-92
28	REDUCING BUSHING	, I	Not Thed	Not East	901100-13	901160-13	Not Coul	Not Gsed
Z9r '	. LOCK NUT	١,	Northead	Not Exed	901402-3	901402-3	Not Used	Nog Used
30	. COSTORY CLAMP	1 '	005299-25	905299-26	905295-86	905299-36	905259-26	ans 299-26 1
i	* These parts pasticula.	· r s	Supplied Coeffe	ru Manutsula	red by Caller	Hammer	I	ı
	** Trave parts particular							ļ
' '	The se particular	21.1	contract to the	resource and fill	and any openiors.	4, W 2 G 10 C		:
		_						

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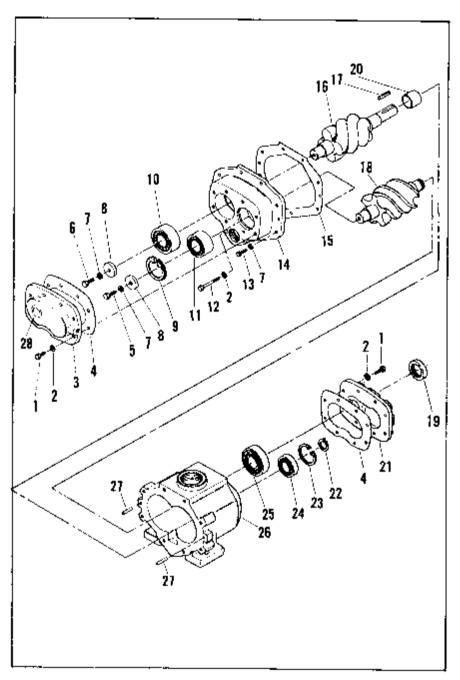


FIGURE 18. COMPRESSOR ASSEMBLY

PARTS LIST FOR FIGURE 18. COMPRESSOR ASSEMBLY

	İ		MODELS
Ref. No.	Description I	Qty	TA007B, TA010B, TA015B, TA007T, TA010B, TA015T
_	COMPRESSOR ASSEMBLY	1	543077-8
1	CAPSCREW	16	900020-12
2	, . LOCKWASHER	16	900302-2
	. DISCHARGE BEARING CAP	1	1660196
4	. GASKET-BEARING CAP	2	1660197 * †
5	. LOCK SCREW	1	1600020
Ü	. CAPSCREW j	1	900042-13
7	. LOCKWASHER	10	900302-3
8	. THRUST RETAINER, MALE	2	1660016
9	. RETAINING RING	1	902868-206
10	. BALL BEARING	1	543101-1* †
11	. BALL BEARING	1	543101-2* ;
12	. CAPSCREW	2	900020-73
13	. CAPSCREW	6	900020-402
14	. DISCHARGE BEARING ROUSING !	1	1660190
15	. GASKET	1	1660205 * †
16	, MALE ROTOR	1	No Number 1
17	. SQUARE KEY	1	200947-81
18	: FEMALE ROTOR	1	. No Number †
19	. OIL SEAL	1	1660392 * 1
20	, SLEEVE	1	1660021 • †
21	. SEAL RETAINER CAP	ī	1660199
22	. SNAP-RING-SHAFT	1	902095-66
23	. SNAP-RING-HOUSING	ī	906512-162
24	. ROLLER BEARING	i	543102-2 * *
25	. ROLLER BEARING	1	543102-1 * †
26	. STATOR	1	1660189
27	: , DOWEL PIN	2	904584-34
28	ROTATION DECAL	1	166D32H
_	BEARING KIT (Includes parts	- :	
_	marked*) COMPRESSOR OVERHAUL KIT	AR	701601-666
	(Includes parts marked*)		

NOTE

Male and female rotors are	ի Տևլնե
plied only as a part of kit	
701601-6 6 8.	

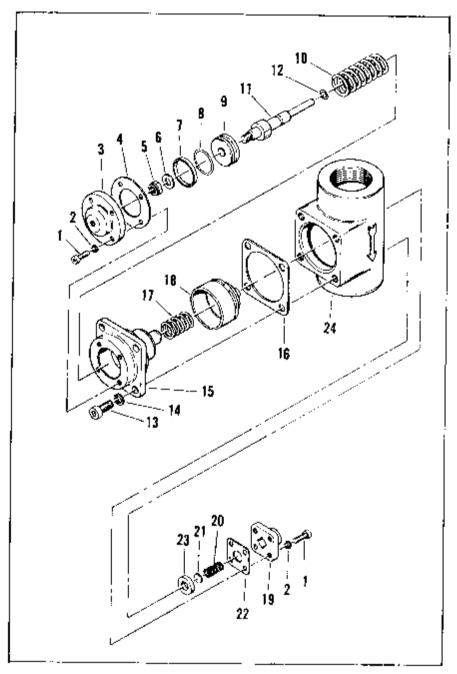


FIGURE 19. INLET VALVE

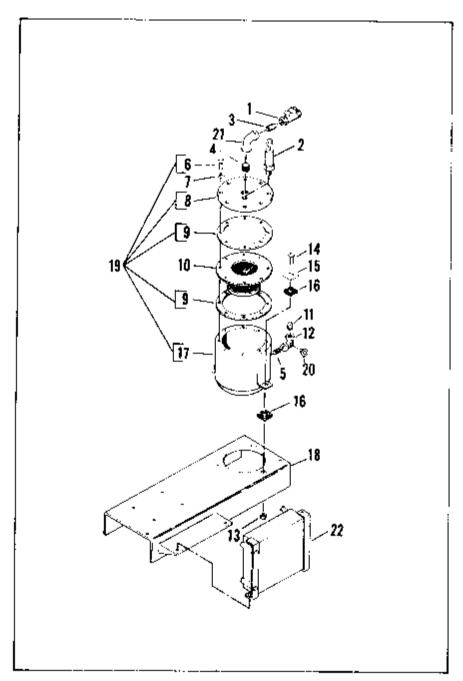


FIGURE 20. COOLER, BASE AND SUMP

PARTS LIST FOR FIGURE 20. COOLER, BASE AND SUMP

			MODELS			
Ref. No.	Description	Qty	TA007B TA007T	TA010B TA010T	TA015B TA015T	
' —	BASE AND SUMP ASSEMBLY	1	543081-22	543081-23	543081-24	
1	. CRECK VALVE Δ	1	543203	543203	543204	
_	HANGER ASSEMBLY 🤄	: 1	543245	543245	543246	
1	. CHECK VALVE A	1	543208	543208	543200	
-	HANGER ASSEMBLY (1	543238	543238	543239	
2	. SAFETY VALVE	1	543099	543099	543099	
3	, NIPPLE	1	901176-60	901176-78	901176-79	
4	. NIPPLE	1	901176-60	901176-60	901176-61	
5	. NIPPLE	1	901176-51	901176-51	901176-51	
6	. CAPSCREW	12	910406-137*	910406-137*	910408-149	
7	. LOCK WASHER	12	900302-114*	900302-114*	900317-114	
8	. SUMP HEAD	1	1660572	1660573	1660574	
**9	. GASKET	2	1680221	1860222	1660223	
**10	. OIL SEPARATOR	1	543117-1	543117-2	543117-3	
11	. PLUG	1	901204-6	901204-6	901204-6	
12	, ELBOW	1	902150-6	902150-6	902150-6	
13	. NUT	3	900490-75	900490-75	900490-75	
14	. CAPSCREW	3	900020-73	900020-73	900020-73	
15	. SQUARE WASHER	3 :	1660476	1660476	1660476	
16	. MOUNTING PAD	6	1660475	1660475	1660475	
17	. SUMP ASSEMBLY	1	3661000	3661001	3661002	
18	. BASE ASSEMBLY	1	3661159 ;	3661160	3661161	
19	. SUMP & HEAD ASSEMBLY	1	543211-6	543211-7	543211-8	
20	. SIGHT WINDOW	1	914483-16	914483-16	914483-16	
21	. ELBOW	1	901023-6	901023-6	901023-7	
22 ;	On COOLER ASSEMBLY	1	543097-6	543097-7	543097-8	
**23	OIL SEPARATOR MIT (Consists of 9 & 10 above)	ı	701601-409	701001-410	701601-411	

ALTERNATE, INTERCHANEABLE WITH OTHER COMPLETE CHECK VALVE ASSEMBLY LISTED FOR THESE MODELS.

O HANGER ASSEMBLY IS NOT INTERCHANGEABLE WITH OTHER HANGERS LISTED. USE HANGER LISTED UNDER CHECK VALVE IN USE.

^{*} QUANTITY IS 8.

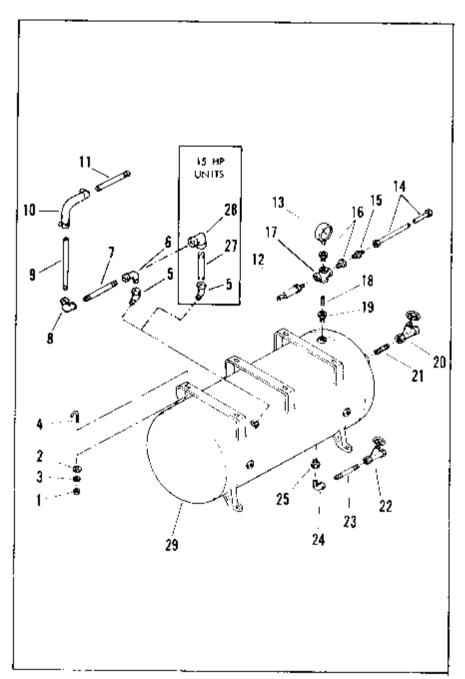


FIGURE 21. RECEIVER AND PARTS

PARTS LIST FOR FIGURE 21. RECEIVER AND PARTS

	Ţ-·				TAGIOT	MODEL	
Storia (Sewerapina	Q/I	MODEL 80 Sallon		i wanier 1	12D Cailigs	120 Gallan	200 Gallon
<u> </u>	ł	!	-			,	· ·
- RECEIVER & PARTS	١,	107066-3	701061-9	709000-4	707067-9	T03067-6	787068+5
2 , NOT	' c	980160-4	900160-4	900 LRO- 4	900160-4	900160-4	900160-4
2 FLAT WASHER	6	986317-4	900017-4	900311-4	900317-4	500357-4	900317-4
3 . LOCK WASHER	۴	900302-3	900302-3	900307-0	900302-3	990308-0	800308-3
. + 1. ът воок	ı	1663FHS	1660188	t660288	1660388	LEROIBR	1600199
S , STREET L, 45"	1	901046-26	981046-26	901046-26	901 46-25	901046-27	901046-27
6 . STREET SILPOW	1	981046-6	901046-6	901046-6	901048-6	Not Used	Not Cord
7 . NIPPLK	់រ	901176-132	901176-132	901176-132	901976-132	901176-133	901176-153
6 ELHOW	1	9BF053-U	901023-6	901089-6	901023-6	901023-7	901023-7
9 . MALE SIPPLE	1	910006-483	910095-348	910096-474	910096-348	910096-511	910096-367
to COMPLING_90°	1	910058-4	910058-4	910058-4	910056-4	910058-5	910058-5
11 . HALF SIPPLE	•	910096-168	910090-204	910096-186	910096-204	960096-241	91009R-241
12 SAFETY VALVE	;	543099	543090	543099	543099	543099	543099
DI . PRESSURE GAGE	įι	54309%	543096	549096	54309G	543096	5430/9G
14 TURING (16")	١,	919682	910082	910062	910082	9100MZ	910082
IS . ADAPTER	. 1	906079-44	906079-44	906099-44	906079-44	906079-44	906079-44
16 REDUC, BUSHING	1	Not Used	Not Usrd	Not Used	Not Used	Not (issed	901160-5
17 . CHOSS	· 1	901109-2	901109-2	901109-2	901109-2	901109-3	901109-2
THE CLOSE SIPPLE	1	201176-2	901176-2	904176-2	901176-2	90LETR-Z	901176-2
19 . REDUC, BUSHING	:	Nik Tised	Not Deed	Not Used	Not Used	901160-5	Not Used
20 SETTVICE VALVE	١	543045	543045	543045	543045	543046	543048
21 CLOSE NIPPLE	įı	903 [75-5]	\$01176-51	901176-51	901176-51	901176-2015	901176-2015
22 . DRAIN VALVE	1	540043	543049	543043	543043	540040	543043
23 ₁ NIPFEE	1	902466-09	002466-90	902466-93	902466-93	902466-93	902466-93
M . STREET ELBOW	1	901046-3	901046-3	901046-3	901046-3	901046-3	901046-3
25 REDUC, HUSHING	ļ :	901100-4	9U21RO-4	901180-4 .	901160-4	901366-4	901160-4
26 RECEIVER	lι	543088	543084	548083	543084	549085	543086
27 I. Nappele	ļ ₁	Not Shed	Not Used	Not Used	Not Deed	901176-61	901176-83
38 EMBONY	1	Not Used	Not Used ;	Not Used	Not Used	501023-7	901023-7
		'	- 1				
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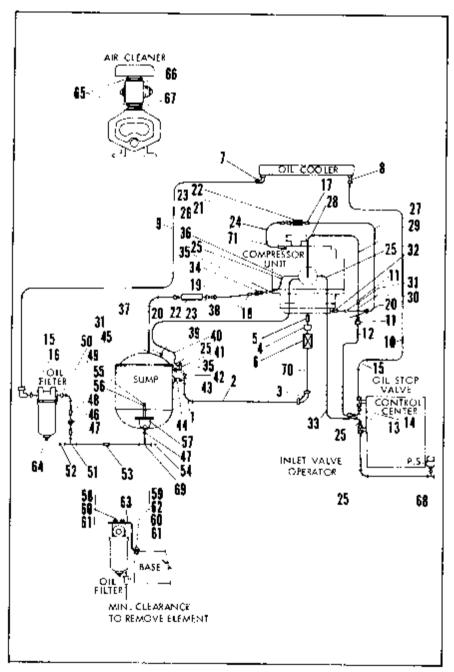


FIGURE 22. CONTROL PARTS AND PIPING

PARTS LIST FOR FIGURE 22. CONTROL PARTS AND PIPING

			ĺ	MODELS	
Ref.	'				'
No.	Description	Qty	TA007B	TA010B	TA015B .
,			TA007T	TA010T	TA015T
i	 				·
I	CONTROL PARTS			<u> </u>	
	AND AIR PIPING	1	707065-25	707065-26	707065-27
! 1	. ELBOW, 90°/STRT	1	901046-7	901046-7	901046-7
2	. HALF NIPPLE	1	910096-214	910096-232	910096-250
3	. COUPLING L	1	910058-5	910058-5	910058-5
4	. REDUC. BUSHING	1	901158-17	901158-17	901158-17
5	NIPPLE	1	901178-60	901178-178	901178-78
6	. CHECK VALVE A	1	543204	543204	543204
. —	HANGER ASSY O	1	543246	543246	543246
6	. CHECK VALVE	1 1	543209	543209	543209
-	HANGER ASSY ^	1	543239	543239	543239
7	. TUBE UNION, L	1	906240-8	906240-8	906240-8
8 :	. TUBE, UNION	1	906244-8	906244-8	906244-8
9	. Ture	1	543292-7	543292-B	543292-5
10	. Tube	1	543292-2	543292-3	543292-8
11	CONNECTOR	2	906242-64	906242-64	906242-64
12	. TUBE	1	543291-9	543291-10	543291-12
. 13	, ELBOW, 90°	1	906266-66	906266-66	906266-66
14	. REDUC, BUSHING	1	901158-6	901158-6	901158-6
' 15 .	. ELBOW, 90°	2	906266-88	906266-88	906266-88
16	. REDUC. BUSHING	1	901158-12	901158-12	901158-12
17	, CONNECTOR	l 1	906242-44	906242-44	906242-44
18	, CONNECTOR	2	906079-1	906079-1	906079-1
19	. TUBING, ORIFICE	1	1680396-5	1660396-6	1660398-6
; 20 ¦	. ELBOW, 90°	2	906266-44	906266-44	906266-44
21	. CONNECTOR	1	906242-42	906242-42	906242-42
22	, STRAINER	2	543254	543254	543254
23	. REDUC. COUPLING	2	901147-1	901147-1	901147-1
; 2 4	. TUBE ASSEMBLY	. 1	543290-35	543290-35	543290-35
25	. ELBOW, 90°	5	906371-42	906371-42	906371-42
26	, ORIFICE FITTING	1	543116	543116	543116
27	. TUBE ASSEMBLY	1	543290-34	543290-34	543290-34
28	. ELBOW, 90°	j 1	906266-64	906266-64	906266-64
29 !	. INJECTION LINE		543291-16	543291-16	543291-16
30	. CROSS	1 1	901109-2	901109-2	901109-2
31	. REDUC, BUSHING	; 3	901158-1	901158-1	901158-1
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İ		l		(Çonti	nued)
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ALTERNATE, INTERCHANGEABLE WITH OTHER COMPLETE CHECK VALVE ASSEMBLY LISTED FOR THESE MODELS.

O HANGER ASSEMBLY IS NOT INTERCHANGEABLE WITH OTHER HANGERS LISTED. USE HANGER LISTED UNDER CHECK VALVE IN USE.

r Ref.		T	MODELS				
No.	Description	Qly	TA007B TA007T	TA010B TA010T	TA015B TA015T		
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	CLOSE NIPPLE VENT LINE, 1/4 IN, SIGHT GLASS NIPPLE ELBOW, STREET TUBE VENT LINE, 1/4 IN, TEE VENT LINE, 1/4 IN, DIFF, PRESS, IND, REDUC, BUSHING REDUC, TEE NIPPLE CONNECTOR UNION CLOSE NIPPLE	2 1 : 1 : 1 : 1 :	901178-2000 910082 (30") 54324J 901178-55 901046-1 543290-21 910082 (12") 905563-42 910082 (12") 543255 901158-9 905329-15 901178-196 543286-2 901128-2	901178-2000 910082 (33") 543241 901178-55 901046-1 543290-21 910082 (17") 906563-42 910082 (12") 543255 901158-9 905329-15 901178-151 543286-2	901178-2000 910082 (34") 543241 901178-55 901046-1 543290-22 910082 (15") 906563-42		
48 49 50 51 52 53 54 55 57 68 69 61 62 64	NIPPLE ELBOW, 90°/ST REDUC, BUSHING TEE PIPE PLUG NIPPLE PIPE PLUG, MAG. ELAS, STOP NUT PLAIN WASHER SUMP BAFFLE CAPSCREW CAPSCREW LOCKWASHER PLAIN WASHER HEX NUT FILTER SUPPORT OIL FILTER	1 1 1 1 1 1 2 2 4 4 2 1 1 1 1 1 1 1 1 1	901178-174 901046-3 901158-11 901090-3 901204-3 901178-282 901205-3 900490-11 900322-7 3660553 900020-3 900020-3 900322-9 900160-4 1660554 543193 1660569	901178-192 901046-3 901158-11 901090-3 901204-3 901178-300 901205-3 900490-11 900322-7 3660553 900020-3 90020-23 900322-9 900160-4 1660554 543193 1660569	901178-210 901046-3 901158-11 901090-3 901204-3 901178-318 901205-3 900490-11 900322-7 3660553 900020-3 900020-3 900322-9 900160-4 1660554 543193 1660569		
65 66 67 68 69 70	REDUC, BUSHING INLET VALVE CLOSE NIPPLE VENT LINE, 1/4 IN. BAFFLE SUPPORT HALF NIPPLE ELBOW, 90°	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	901158-26 543191 902486-1225 910082 (17") 3860304 910096-97 906266-42	910082 (17") 3660304	901158-26 543191 902466-1225 910082 (17") 3660304 910096-133 906266-42		

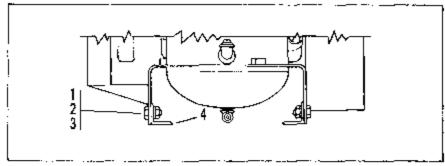


FIGURE 23. BASE MOUNTED PARTS

PARTS LIST FOR FIGURE 23. BASE MOUNTED PARTS

Ref. No.	Description		Qty	ALL BASE MOUNTED UNITS
i	NUT, HEX	-	6	900160-5
2	LOCK WASHER		6	900302-4
3	CAPSCREW		6	900020-24
4	LEG BRACKET		6	1660329

TWISTAIR COMPRESSOR ACCESSORIES

Several accessory items are available for special applications. These accessories have been selected as being particularly suitable for use on the Twistair compressor and can be easily installed in the field, or be ordered at time of purchase of the compressor.

OIL BATH AIR FILTER KIT

Hooded, recleanable, bottom opening. Male pipe thread.

With relief valve

Part No. 00701600-0279 11/2" P.T.-70CFM Part Number, 00701600-0280 2" P.T .- 150CFM Recommended for use where compressor will operate under extremely dusty conditions.



PRESSURE REGULATORS

Can be used for air and non-corrosive gases, self relieving.

Primary Pressure: 400 PSIG

Secondary Pressure: 0-125 PSIG

Temperature Range: -40° to +200° F.

Part No. 00543106-0001 1/4" F.P.T.

Part No. 00543106-0002 3/8" F.P.T.

Part No. 00543106-0003 1/2" F.P.T.

Regulates air to be required pressure with

minimum pressure drop.



AIR LINE FILTER, AUTOMATIC DRAIN

Maximum operating conditions:

250 PSIG at 100° F. 200 PSIG at 160° F.

100 PSIG at 200° F.

Normal rating: 25 Micron Automatic Bowl Drain

Safety-Green Transparent Bowl.

Part No. 00543107-0004 1/4" F.P.T. Part No. 00543107-0005 3/8" F.P.T.

Part No. 00543107-0005 1/2" F.P.T.

To assure delivery of continuously dry, clean air for the protection of pneumatic devices. Condensate is collected and automatically

drained from the bowl.



AIR LINE FILTER, MANUAL DRAIN

Maximum operating conditions:

250 PSIG at 100° F.

200 PSIG at 160° F.

100 PSIG at 200° F.

Manual Bowl Drain

Nominal Rating: 25 micron

Safety-Green Transparent Bowl.

Part No. 00543108-0001 1/4" F.P.T. Part No. 00543108-0002 1/9" F.P.T.

Part No. 00543108-0003 1/2" F.P.T.

Serves same purpose as Automatic Drain Air Line Filter, except condensate must be drained from the filter bowl manually.



Maximum operating condition:

250 PSIG at 100° F.

200 PSIG at 160° F.

100 PSIG at 200° F.

Oil Mist Lubricator

Thumb-screw Rate Adjustment Safety-Green Transparent Bowl

Part No. 00543109-0001 1/4" F.P.T.

1/3 pint capacity

Part No. 00543109-0002 3/4" F.P.T.

1/3 pint capacity

Part No. 00543109-0003 3/4" F.P.T.

🌃 pint capacity

To assure delivery of properly lubricated air in such applications where Jubricant in the air, in predetermined, measured quantities, is desired.





WATER COOLED AFTERCOOLERS

A STATE OF THE PARTY OF THE PAR Shell (water side) rating: 75 PSIG Maximum Tube (air side) rating: 250 PSIG Maximum

15° F. Approach

Water Ports-1/2" F.P.T.

Part No. 00543103-0002 90 CFM for 71/2 H.P. Unit

Part No. 00543103-0002 90 CFM for 10 H.P. Unit

Part No. 00543103-0002 90 CFM for 15 H.P. Unit

Aftercoolers will reduce amount of condensate in plant air lines, and are required when a dryer is used in the system.



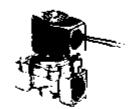
Maximum Operating Pressure Differential: 135 PSIG

Maximum Temperature: 200° F. 1/2" Orifice, 1/2" F.P.T. Ports

Part No. 527412-1

115V.

Automatically shuts off water supply when compressor is shut down.



AUTOMATIC CONDENSATE TRAP KIT

Maximum Pressure, 125 PSIG

¾" F.P.T. Ports

Part No. 00701500-0260

Automatically collects and removes moisture and condensate from the receiver.



OVERSIZE TANKS

756 and 10 H.P.-00707057-0009 Receiver and Parts 120 Gallon

15 H.P.—00707068-0005 Receiver and Parts 200 Gallon

For use when air demand requires a larger volume receiver to reduce number of compressor starts and stops.



PEDESTAL MODIFICATION KIT WASHINGTON, D. C., MASSACHUSETTS AND PENNSYLVANIA

Part No. 00701600-0270 80 Gallon Receiver Part No. 00701600-0271 120 Gallon Receiver Part No. 00701600-0272 200 Gallon Receiver

MASSACHUSETTS AND WASHINGTON, D. C. CODE CONVERSION KIT (TANK MOUNTED UNITS ONLY)

Part No. 00707071-0001 71/2-10 H.P. with 80 Gal. Receiver Part No. 00707071-0002 71/2-10-15 H.P. with 120 or 200 Gal. Receiver Note: 1 Pedestal Kit and 1 Conversion Kit Required.

LOW DIFFERENTIAL PRESSURE SWITCH

Range-0 to 150 PSIG Adj. Diff. 2 to 18 PSIG 5A-240V. NEMA 51 Enclosure Part No. 00600713-0241 Pressure Switch

VERTICAL AIR RECEIVER-TANK ONLY

Part No. 00518888-0003 75 Gal. Capacity 18" x 72" Part No. 0A243003 125 Gal. Capacity 24" x 72"

FULLY ENCLOSED BELT GUARD

Part No. 00707073-0006 7½ H.P. Twistair Part No. 00707073-0007 10 H.P. Twistair Part No. 00707073-0008 15 H.P. Twistair

BELT TENSION TOOL

Part No. 00543217 Used for Determining, Proper Drive V-Belt Tension

AUTOMATIC COMBINATION CONDENSATE SEPARATOR AND TRAP

Mounts between aftercooler and receiver to remove condensate from the air before it enters the receiver.

Part No. 00701600-295—1" 7½-10 H.P.

Part No. 00701600-296—1½" 15 H.P.

THIRD OVERLAY RELAY KITS

For N. E. M. A. Size 1 Starter Without Heater 600714-883x
For N. E. M. A. Size 1 Starter Without Heater 600714-879xx
For N. E. M. A. Size 2 Starter Without Heater 600714-883x
For N. E. M. A. Size 2 Starter Without Heater 600714-880xx
For N. E. M. A. Size 3 Starter Without Heater 600714-883x
For N. E. M. A. Size 3 Starter Without Heater 600714-881xx
Overload Reset Kit for N. E. M. A. Size 3 G. E. Starter only

x These parts particular to control centers Manufactured by Cutler Hammer xx These parts Particular to control centers Manufactured by General Electric

TRANSFORMER KITS FOR CONTROL CIRCUITS

Part Number 00701600-0241 71/2 and 10 H.P. 440V 71/2 H.P. 220V

140VA Primary 230/460V Secondary 115V NEMA \$1 Enclosure

Part Number 00701600-0242

10 and 15 H.P. 220V

15 H.P. 440V.

200VA Primary 230/460V Secondary 115V NEMA #1 Enclosure

Part Number 00701600-0265

71/2 H.P. 208V

140VA Primary 208V Secondary 115V NEMA #1 Enclosure

Part Number 00701600-0266

10 and 15 H.P. 208V

200VA Primary 208V Secondary 115V NEMA #1 Enclosure

Part Number 00701600-0273

71% and 10 H.P. 550V

140V Primary 550V Secondary 115V

Part Number 00701500-0274

15 H.P. 550V

200VA Primary 550V Secondary 115V

MAINTENANCE KITS

Bearing Maintenance Kit 71/2-10 & 15 H.P. Units Part No. 00701601-0666

Compressor Unit Overhaul Kit 71/2-10 & 15 H.P. Units Part No. 00701601-0668

NOTE

For list of parts included in above kits, refer to Figure 18, Pages 36 and 37 of this manual.

WARRANTY

Seller will repair or replace, without charge f.o.b. point of shipment, any parts of its own manufacture proven upon Seller's examination to be defective in material or workmanship when furnished, provided claim is made within twelve months after date of shipment. Deterioration or wear occasioned by misuse, abuse, chemical or abrasive action or excessive heat shall not constitute defects. At the request and at the sole cost of Buyer, Seller will supply labor to replace any such defective part. Equipment and accessories not of the Seller's manufacture are warranted only to the extent that they are warranted by the manufacturers. THERE ARE NO OTHER WARRANTIES, EXPRESS, STATUTORY OR IMPLIED, INCLUDING THAT OF MERCHANTABILITY AND OF FITNESS.

No liability for any special, indirect or consequential damages of any nature is assumed by or shall be imposed on Seller based on its undertakings herein.

No allowance will be granted for any repairs or alterations made by the Buyer without the Seller's written consent. The Seller reserves the right to make, at any time, changes in detail of design, construction arrangement or equipment.

NOTE TO OWNER:

TO VALIDATE THE ABOVE WARRANTY, IT IS NECESSARY THAT YOU FILL IN AND RETURN THE REGISTRATION CARD THAT WAS SUPPLIED WITH THIS MACHINE. WE SUGGEST YOU RETAIN THE GUARANTEE HALF OF THE CARD IN YOUR FILES FOR READY REFERENCE AS TO SHOP NUMBER AND DATE OF PURCHASE OF THE UNIT.





3OY MANUFACTURING COMPANY AIR POWER DIVISION MICHIGAN CITY, INDIANA 46360