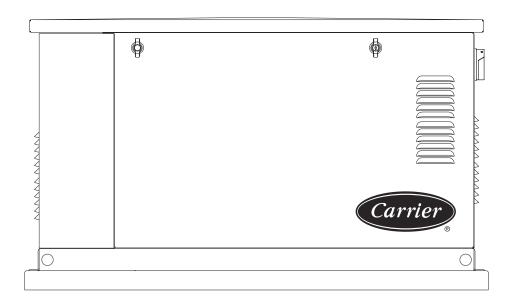


# Parts, Adjustment and Maintenance Manual



Air-cooled, Prepackaged Automatic Standby Generators Models:

ASPAS1CCA007 (6 kW NG, 7 kW LP) ASPAS1CCA012 (12 kW NG, 12 kW LP) ASPAS1CCA015 (13 kW NG, 15 kW LP)





Not intended for use as Primary Power in place of utility or in life-support applications.





**DEADLY EXHAUST FUMES. OUTDOOR INSTALLATION ONLY!!** 

### INTRODUCTION

This Carrier model is a compact, high performance, air-cooled, engine-driven generator designed to automatically supply electrical power to operate critical loads during a utility power failure.

This unit is factory installed in an all-weather, metal enclosure that is intended exclusively for outdoor installation. This generator will operate using either vapor withdrawn liquid propane (LP) or natural gas (NG).

### **◆ READ THIS MANUAL THOROUGHLY**

Throughout this publication, and on tags and decals affixed to the generator, DANGER, WARNING. CAUTION and NOTE blocks are used to alert personnel to special instructions about a particular operation that may be hazardous if performed incorrectly or carelessly. Observe them carefully. Their definitions are as follows:



After this heading, read instructions that, if not strictly complied with, will result in serious personal injury, including death, in addition to property damage.



After this heading, read instructions that, if not strictly complied with, may result in serious personal injury or property damage.



After this heading, read instructions that, if not strictly complied with, could result in damage to equipment and/or property.

### NOTE:

After this heading, read explanatory statements that require special emphasis.

These safety warnings cannot eliminate the hazards that they indicate. Common sense and strict compliance with the special instructions while performing the service are essential to preventing accidents.

Four commonly used safety symbols accompany the DANGER, WARNING and CAUTION blocks. The type of information each indicates follows:



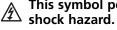
This symbol points out important safety information that, if not followed, could endanger personal safety and/or property of others.



This symbol points out potential explosion hazard.



This symbol points out potential fire hazard.



This symbol points out potential electrical

The operator is responsible for proper and safe use of the equipment. Carrier strongly recommends that the dealer read this Parts. Adjustment and Maintenance Manual and thoroughly understand all instructions before using this equipment. Carrier also strongly recommends instructing other users to properly start and operate the unit. This prepares them if they need to operate the equipment in an emergency.

### **◆ CONTENTS**

This manual contains pertinent information for three different Carrier models:

- ASPAS1CCA007 6 kW NG, 7 kW LP, single-cylinder GH-410 Engine
- ASPAS1CCA012 12 kW NG, 12 kW LP, V-twin GT-990 Engine
- ASPAS1CCA015 13 kW NG, 15 kW LP, V-twin GT-990 Engine

### **◆ OPERATION AND MAINTENANCE**

It is the operator's responsibility to perform all safety checks, to make sure that all maintenance for safe operation is performed promptly, and to have the equipment checked periodically by a Carrier Dealer. Normal maintenance service and replacement of parts are the responsibility of the owner/operator and, as such, are not considered defects in materials or workmanship within the terms of the warranty. Individual operating habits and usage contribute to the need for maintenance service.

Proper maintenance and care of the generator ensures a minimum number of problems and keep operating expenses at a minimum. See a Carrier Dealer for service aids and accessories.

### **◆ HOW TO OBTAIN SERVICE**

When the generator requires servicing or repairs, contact a Carrier Dealer for assistance. Service technicians are factory-trained and are capable of handling all service needs.

When inquiring about parts or service, always supply the complete model number and serial number of the unit as given on its data decal, which is located on the generator. See Figure 1.1 or Figure 1.2 in Section 1.4 of the Owner's Manual for decal location.

Model No.	 Serial No.	

### **Table of Contents**

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SAVE THESE INSTRUCTIONS - The manufacturer suggests that these rules for safe operation be copied and posted near the unit's installation site. Safety should be stressed to all operators and potential operators of this equipment.







The engine exhaust from this product contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.





This product contains or emits chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

Study these SAFETY RULES carefully before installing, operating or servicing this equipment. Become familiar with this Parts, Adjustment and Maintenance Manual and with the unit. The generator can operate safely, efficiently and reliably only if it is properly installed, operated and maintained. Many accidents are caused by failing to follow simple and fundamental rules or precautions.

Carrier cannot possibly anticipate every possible circumstance that might involve a hazard. The warning in this manual, and on tags and decals affixed to the unit are, therefore, not all-inclusive. If using a procedure, work method or operating technique that Carrier does not specifically recommend, satisfy yourself that it is safe for others. Also make sure the procedure, work method or operating technique chosen does not render the generator unsafe.





Despite the safe design of this generator, operating this equipment imprudently, neglecting its maintenance or being careless can cause possible injury or death. Permit only responsible and capable persons to install, operate or maintain this equipment.



Potentially lethal voltages are generated by these machines. Ensure all steps are taken to render the machine safe before attempting to work on the generator.



Parts of the generator are rotating and/or hot during operation. Exercise care near running generators.

### GENERAL HAZARDS

- For safety reasons, Carrier recommends that this equipment be installed, serviced and repaired by a Carrier Dealer.
- The engine exhaust fumes contain carbon monoxide gas. which can be DEADLY. This dangerous gas, if breathed in sufficient concentrations, can cause unconsciousness or even death. For that reason, adequate ventilation must be provided. This exhaust system must be installed properly, in strict compliance with applicable codes and standards. Following installation, do nothing that might render the system unsafe or in noncompliance with such codes and standards.
- Keep hands, feet, clothing, etc., away from drive belts, fans, and other moving or hot parts. Never remove any drive belt or fan guard while the unit is operating.
- Adequate, unobstructed flow of cooling and ventilating air is critical to correct generator operation. Do not alter the installation or permit even partial blockage of ventilation provisions, as this can seriously affect safe operation of the generator. The generator must be installed outdoors.
- When working on this equipment, remain alert at all times. Never work on the equipment when physically or mentally fatigued.
- Inspect the generator regularly, and contact the nearest Carrier Dealer for parts needing repair or replacement.
- Before performing any maintenance on the generator, disconnect its battery to prevent accidental start up. Disconnect the cable from the battery post indicated by a NEGATIVE, NEG or (—) first. Reconnect that cable last.
- Never use the generator or any of its parts as a step. Stepping on the unit can stress and break parts, and may result in dangerous operating conditions from leaking exhaust gases, fuel leakage, oil leakage, etc.

### **⚠** ELECTRICAL HAZARDS **⚠**

- All generators covered by this manual produce dangerous electrical voltages and can cause fatal electrical shock. Utility power delivers extremely high and dangerous voltages to the transfer switch as well as the standby generator. Avoid contact with bare wires, terminals, connections, etc., on the generator as well as the transfer switch, if applicable. Ensure all appropriate covers, guards and barriers are in place before operating the generator. If work must be done around an operating unit, stand on an insulated, dry surface to reduce shock hazard.
- Do not handle any kind of electrical device while standing in water, while barefoot, or while hands or feet are wet.
   DANGEROUS ELECTRICAL SHOCK MAY RESULT.
- If people must stand on metal or concrete while installing, operating, servicing, adjusting or repairing this equipment, place insulative mats over a dry wooden platform. Work on the equipment only while standing on such insulative mats.
- The National Electrical Code (NEC) requires the frame and external electrically conductive parts of the generator to be connected to an approved earth ground. This grounding will help prevent dangerous electrical shock that might be caused by a ground fault condition in the generator set or by static electricity. Never disconnect the ground wire. Local electrical codes also may require proper grounding of the generator electrical system.
- After installing this home standby electrical system, the generator may crank and start at any time without warning. When this occurs, load circuits are transferred to the STANDBY (generator) power source. To prevent possible injury if such a start and transfer occur, always set the generator's Auto/Off/Manual switch to its OFF position before working on equipment and remove the 7.5A and 15A fuses from the generator control panel.
- In case of accident caused by electric shock,immediately shut down the source of electrical power. If this is not possible, attempt to free the victim from the live conductor. AVOID DIRECT CONTACT WITH THE VICTIM. Use a nonconducting implement, such as a dry rope or board, to free the victim from the live conductor. If the victim is unconscious, apply first aid and get immediate medical help.
- Never wear jewelry when working on this equipment.
   Jewelry can conduct electricity resulting in electric shock, or may get caught in moving components causing injury.

### 🛦 FIRE HAZARDS 🛦

 Keep a fire extinguisher near the generator at all times. Do NOT use any carbon tetra-chloride type extinguisher. Its fumes are toxic, and the liquid can deteriorate wiring insulation. Keep the extinguisher properly charged and be familiar with its use. Consult the local fire department for any questions pertaining to fire extinguishers.

### EXPLOSION HAZARDS

- Do not smoke around the generator. Wipe up any fuel or oil spills immediately. Ensure that no combustible materials are left in the generator compartment, or on or near the generator, as FIRE or EXPLOSION may result. Keep the area surrounding the generator clean and free from debris.
- Fuels such as natural gas and LP gas are extremely EXPLOSIVE. Install the fuel supply system according to applicable fuel-gas codes. Before placing the home standby electric system into service, fuel system lines must be properly purged and leak tested according to applicable code. After installation, inspect the fuel system periodically for leaks. No leakage is permitted.

### **◆ STANDARDS INDEX**

In the absence of pertinent standards, codes, regulations and laws, the published information listed below may be used as installation guide for this equipment.

- 1. NFPA No. 37, STATIONARY COMBUSTION ENGINES AND GAS TURBINES, available from the National Fire Protection Association, 470 Atlantic Avenue, Boston, MA 02210.
- 2. NFPA No. 76A, ESSENTIAL ELECTRICAL SYSTEMS FOR HEALTH CARE FACILITIES, available same as Item 1.
- 3. NFPA No. 54, NATIONAL FUEL GAS CODE, available same as Item 1.
- 4. NFPA No. 58, AMERICAN NATIONAL STANDARD FOR STORAGE AND HANDLING OF LIQUEFIED PETROLEUM GAS, available same as Item 1.
- 5. NFPA No. 70, NFPA HANDBOOK OF NATIONAL ELECTRIC CODE, available same as Item 1.
- 6. Article X, NATIONAL BUILDING CODE, available from the American Insurance Association, 85 John Street, New York, N.Y. 10038.
- 7. AGRICULTURAL WIRING HANDBOOK, available from the Food and Energy Council, 909 University Avenue, Columbia, MO 65201.
- 8. ASAE EP-3634, INSTALLATION AND MAINTENANCE OF FARM STANDBY ELECTRICAL SYSTEMS, available from the American Society of Agricultural Engineers, 2950 Niles Road, St. Joseph, MI 49085.
- 9. NFPA No. 30, FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE, available same as Item 1.



Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators

#### 1.1 **BEFORE INITIAL START-UP**

Before starting, complete the following:

- 1. Set the generator's main circuit breaker to its OFF (or open) position.
- 2. Set the generator's AUTO/OFF/MANUAL switch to the OFF position.
- 3. Turn OFF the utility power supply to the transfer switch using the means provided (such as the utility main line circuit breaker).
- Turn OFF all loads connected to the transfer switch terminals T1 and T2.
- 5. Check the engine crankcase oil level and, if necessary, fill to the dipstick FULL mark with the recommended oil. Do not fill above the FULL mark.
- 6. Check the fuel supply. Gaseous fuel lines must have been properly purged and leak tested in accordance with applicable fuel-gas codes. All fuel shutoff valves in the fuel supply lines must be open.



A CAUTION A





Never operate the engine with the oil level below the "Add" mark on the dipstick. Doing this could damage the engine.

### **CHECK TRANSFER SWITCH** 1.2 OPERATION

Refer to Section 3.5, of the owner's manual for manual operation procedures.



### DANGER !



Do not attempt manual transfer switch operation until all power voltage supplies to the transfer switch have been positively turned off. Failure to turn off all power voltage supplies will result in extremely hazardous and possibly fatal electrical shock.

#### 1.3 **ELECTRICAL CHECKS**

Complete electrical checks as follows:

- Set the generator's main circuit breaker to its OFF (or open) position.
- 2. Set the generator's Auto/Off/Manual switch to the OFF position.
- 3. Turn OFF all loads connected to the transfer switch terminals T1 and T2.
- Turn on the utility power supply to the transfer switch using the means provided (such as a utility main line circuit breaker).



DANGER

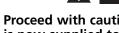


The transfer switch is now electrically "hot." Contact with "hot" parts will result in extremely hazardous and possibly fatal electrical shock. Proceed with caution.

Carrier

- 5. Use an accurate AC voltmeter to check utility power source voltage across transfer switch terminals N1 and N2. Nominal line-to-line voltage should be 240 volts AC.
- Check utility power source voltage across terminals N1 and the transfer switch neutral lug; then across terminal N2 and neutral. Nominal line-to-neutral voltage should be 120 volts AC.
- 7. When certain that utility supply voltage is compatible with transfer switch and load circuit ratings, turn OFF the utility power supply to the transfer switch.
- 8. On the generator panel, set the AUTO/OFF/ MANUAL switch to MANUAL. The engine should crank and start.
- 9. Let the engine warm up for about five minutes to allow internal temperatures to stabilize. Then, set the generator's main circuit breaker to its ON (or CLOSED) position.





Proceed with caution! Generator power voltage is now supplied to the transfer switch. Contact with live transfer switch parts will result in dangerous and possibly fatal electrical shock.

- 10. Connect an accurate AC voltmeter and a frequency meter across transfer switch terminal lugs E1 and E2. Voltage should be 242-252 volts; frequency should read about 61-63 Hertz.
- 11. Connect the AC voltmeter test leads across terminal lug E1 and neutral; then across E2 and neutral. In both cases, voltage reading should be 121-126 volts AC.
- 12. Set the generator's main circuit breaker to its OFF (or open) position. Let the engine run at no-load for a few minutes to stabilize internal engine generator temperatures.
- 13. Set the generator's AUTO/OFF/MANUAL switch to OFF. The engine should shut down.

#### NOTE:

It is important not to proceed until certain that generator AC voltage and frequency are correct and within the stated limits. Generally, if both AC frequency and voltage are high or low, the engine governor requires adjustment. If frequency is correct, but voltage is high or low, the generator's voltage regulator requires adjustment.

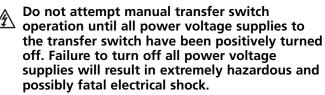


### 1.4 GENERATOR TESTS UNDER LOAD

To test the generator set with electrical loads applied, proceed as follows:

- Set generator's main circuit breaker to its OFF (or OPEN) position.
- Turn OFF all loads connected to the transfer switch terminals T1 and T2.
- Set the generator's AUTO/OFF/MANUAL switch to OFF.
- Turn OFF the utility power supply to the transfer switch, using the means provided (such as a utility main line circuit breaker).





- 5. Manually set the transfer switch to the STANDBY position, i.e., load terminals connected to the generator's E1/E2 terminals. The transfer switch operating lever should be down.
- Set the generator's AUTO/OFF/MANUAL switch to MANUAL. The engine should crank and start immediately.
- 7. Let the engine stabilize and warm up for a few minutes.
- Set the generator's main circuit breaker to its ON (or closed) position. Loads are now powered by the standby generator.
- Turn ON electrical loads connected to transfer switch T1 and T2. Apply an electrical load equal to the full rated wattage/amperage capacity of the installed generator.
- Connect an accurate AC voltmeter and a frequency meter across terminal lugs E1 and E2. Voltage should be greater than 230 volts; frequency should be greater than 58 Hertz.
- Let the generator run at full rated load for 20-30 minutes. Listen for unusual noises, vibration or other indications of abnormal operation. Check for oil leaks, evidence of overheating, etc.
- 12. When testing under load is complete, turn OFF electrical loads.
- 13. Set the generator's main circuit breaker to its OFF (or OPEN) position.
- 14. Let the engine run at no-load for a few minutes.
- 15. Set the AUTO/OFF/MANUAL switch to OFF. The engine should shut down.

# 1.5 CHECKING AUTOMATIC OPERATION

To check the system for proper automatic operation, proceed as follows:

- Set generator's main circuit breaker to its OFF (or OPEN) position.
- Check that the AUTO/OFF/MANUAL switch is set to OFF.
- 3. Turn OFF the utility power supply to the transfer switch, using means provided (such as a utility main line circuit breaker).
- 4. Manually set the transfer switch to the UTILITY position, i.e., load terminals connected to the utility power source side.
- Turn ON the utility power supply to the transfer switch, using the means provided (such as a utility main line circuit breaker).
- 6. Set the AUTO/OFF/MANUAL switch to AUTO. The system is now ready for automatic operation.
- Turn OFF the utility power supply to the transfer switch.

With the AUTO/OFF/MANUAL switch at AUTO, the engine should crank and start when the utility source power is turned OFF. After starting, the transfer switch should connect load circuits to the standby side. Let the system go through its entire automatic sequence of operation.

With the generator running and loads powered by generator AC output, turn ON the utility power supply to the transfer switch. The following should occur:

- After about six seconds, the switch should transfer loads back to the utility power source.
- About one minute after retransfer, the engine should shut down.

# 1.6 ADJUSTING THE REGULATOR (NATURAL GAS ONLY)

Although the generator has been factory set to provide maximum power, it may be necessary in some areas to adjust this setting. Because natural gas has different BTU or power content across the country the engine may not perform as designed.

If experiencing engine problems at high or full load conditions follow these steps. It will require a frequency meter to perform this procedure.

- 1. Turn off utility power to the main distribution panel in the house. This can be done by switching the service main breaker to the off or open position.
- 2. Allow the generator to start. Before loading the generator, confirm that the No Load Frequency, with the top open and front panel off, is set to 63-63.5 Hz. Transfer load to emergency circuits.



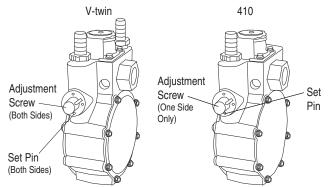
### Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators

3. Turn on appliances, lights, pumps, etc., that are on the emergency circuits in an attempt to fully load the generator. Be cautious not to overload the generator. Use the following chart as a guide:

Unit	120 Volts	240 Volts
7 kW	50.0 amps	25.0 amps
12 kW	100.0 amps	50.0 amps
13 kW	108.3 amps	54.1 amps

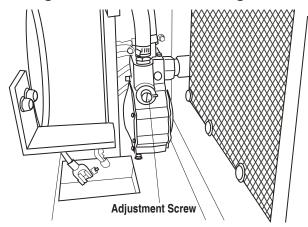
- When full load has been achieved. Connect a frequency meter to the output lugs of the generator's main line circuit breaker.
- 5. The fuel regulator is fitted with one (7 kW), or two (12 & 15 kW) adjustment screws. While watching the frequency meter, slowly turn the adjustment screws clockwise or counterclockwise one at a time until the highest frequency is read on the meter. Only limited adjustment is available because of the set pin. Under no circumstances should any of the pins be removed (Figures 1.1 and 1.2).

Figure 1.1 — Dual Fuel Regulators



6. When the highest frequency is reached maximum power has been set. From this point turn both adjustment screws 1/4 turn counterclockwise. The regulator is now set.

Figure 1.2 — Placement of Regulator



7. Turn utility power to the main distribution panel back on. This can be done by switching the service main breaker to the on or closed position. Allow the generator to shut down.



A

Do not make any unnecessary adjustments. Factory settings are correct for most applications. However, when making adjustments, be careful to avoid overspeeding the engine.

# 1.7 RECONFIGURING THE FUEL SYSTEM

### **◆** 1.7.1 7 KW, 410CC ENGINE

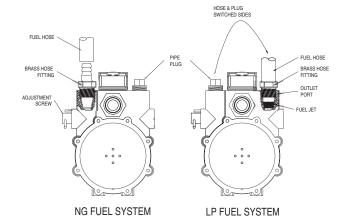
To reconfigure the fuel system from NG to LP, follow these steps (Figure 1.3):

#### NOTE:

The primary regulator for the propane supply is NOT INCLUDED with the generator. A fuel pressure of 11 to 14 inches of water column (0.4 to 0.5 psi) to the fuel inlet of the generator MUST BE SUPPLIED.

- 1. Turn off the main gas supply (if connected).
- 2. Open the top and remove the front panel.
- 3. Remove the battery (if installed).
- 4. Disconnect wire #0 and wire #14 from the gas solenoid on top of the demand regulator.
- 5. Remove the carburetor fuel hose from the outlet port of the demand regulator.
- 6. Remove the demand regulator by removing the fastener that retains the regulator mounting bracket.
- 7. Remove the square headed steel pipe plug from outlet port #1 and the brass hose barb fitting from outlet port #2.
- 8. Refit the brass hose barb fitting to outlet port #1 and the square headed steel pipe plug to outlet port #2.

Figure 1.3 – Demand Regulator





- 9. Reverse procedure steps 1-5 to reinstall demand regulator.
- Reverse the procedure to convert back to natural gas.

### ♦ 1.7.2 12KW AND 15KW, V-TWIN ENGINES

To reconfigure the fuel system from NG to LP, follow these steps:

#### NOTE:

The primary regulator for the propane supply is NOT INCLUDED with the generator. A fuel pressure of 11 to 14 inches of water column (0.4 to 0.5 psi) to the fuel inlet of the generator MUST BE SUPPLIED.

- 1. Turn off the gas supply. (if connected)
- 2. Open the top and remove the front panel.
- 3. Remove the battery. (if installed)
- 4. Remove the engine air in baffle located on the lefthand side of the battery compartment. Two M6 screws are located on top of the baffle and two M6 screws are located on the inside of the baffle towards the back.
- Remove the small hose clamp and hose from the fuel regulator. It may be necessary to pry the hose off of the brass fitting using a screwdriver to gently lift up the hose edge.
- 6. Remove the small brass hose fitting from the regulator casting.
- 7. Place the small fuel jet, thread side first, into the threaded hole originally occupied by the brass hose fitting (Figure 1.4).
- 8. Using a short No. 2 Phillips screw driver, thread the small fuel jet into the regulator casting. Do not over tighten.
- 9. Apply thread sealant to the threads of the hose fitting and replace it into the regulator body.
- 10. Re-attach the small hose and hose clamp and tighten as necessary.
- 11. Replace the engine air in baffle using the four M6 screws.
- 12. Identify both brass adjustment screws on the regulator.

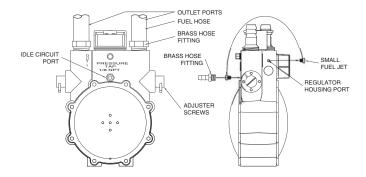
### NOTE:

One adjustment screw can be accessed from the front of the unit and the second can be accessed from the back of the unit enclosure by removing the plastic hole plug. The screw can be turned with a long flat blade screwdriver.

13. To adjust the system to run on LP fuel, turn BOTH adjuster screws 1/2 TURN CLOCKWISE. The system should now be set for maximum power and best performance. DO NOT, UNDER ANY CIRCUMSTANCES, REMOVE THE SET PINS FROM THE REGULATOR HOUSING. THIS WILL VOID THE WARRANTY.

14. It may be necessary to make minor adjustments to the preset adjustment screw settings to achieve maximum power, particularly at higher altitudes. If experiencing problems with the unit producing maximum power, follow the procedure in Section 1.6 (Adjusting the Fuel Regulator).

Figure 1.4 - Demand Regulator



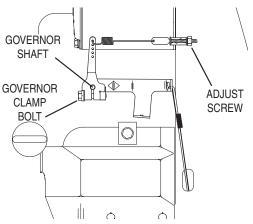
### 1.8 ENGINE GOVERNOR ADJUSTMENT

If both AC frequency and voltage are correspondingly high or low, adjust the engine governor as follows:

### ◆ 1.8.1 7 KW UNITS

- 1. Loosen the governor clamp bolt (Figures 1.5).
- 2. Hold the governor lever at its wide open throttle position, and rotate the governor shaft clockwise as far as it will go. Then, tighten the governor lever clamp bolt to 70 inch-pounds (8 N-m).
- Start the generator; let it stabilize and warm up at noload
- Connect a frequency meter (or high quality multimeter set to the frequency mode) across the generators AC output leads.
- 5. Turn the speed adjust nut to obtain a frequency reading of 63 Hertz.

Figure 1.5 — Engine Governor Adjustment Single Cylinder Engines





### Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators

6. When frequency is correct at no load, check the AC voltage reading. If voltage is incorrect, the voltage regulator may require adjustment.

#### **1.8.2** 12 KW AND 15 KW UNITS

- 1. Loosen governor clamp bolt (See Figure 1.6).
- 2. Completely remove the idle spring.
- 3. With governor arm at wide open throttle position (rotated fully clockwise), rotate governor shaft fully clockwise. Tighten clamp bolt to 84 inch-pounds.
- Start unit and apply full load. Use full load speed adjust screw (Figure 1.7) to adjust frequency to 58
- Remove load, stop engine, loosen the idle adjust screw and reconnect the idle spring.
- Push the governor arm to the closed throttle position. Make sure the idle spring does not stretch at all.

Figure 1.6 — Engine Governor Adjustment V-twin Engines

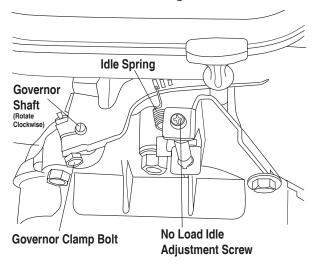
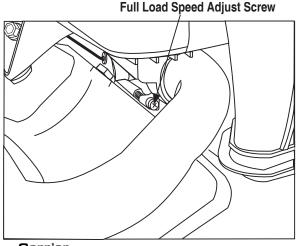


Figure 1.7 — Full Load Speed Adjust Screw V-Twin Engines

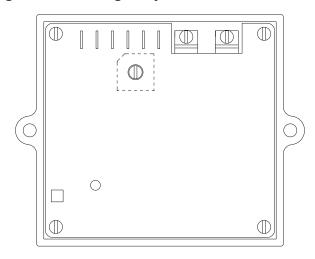


- 7. Restart the unit.
- Slowly turn the idle adjust screw to adjust the no-load idle frequency to 63-63.5 Hz (with top open).
- 9. The governor is now set.

### 1.9 **VOLTAGE REGULATOR ADJUSTMENT**

With the frequency between 62-63 Hertz, slowly turn the slotted potentiometer (Figure 1.8) until line voltage reads 247-252 volts.

Figure 1.8 – Voltage Adjustment Potentiometer



### NOTE:

The access panel on top of the control panel must be removed to adjust the voltage regulator.

### NOTE:

The voltage regulator is housed above the generator's control panel. The regulator maintains a voltage in direct proportion to frequency at a 2-to-1 ratio. For example, at 62 Hertz, line-to-neutral voltage will be 124 volts.

### 1.10 ADJUSTING GH-410/GT-990 **VALVE CLEARANCE**

After the first 6 months of operation, adjust the valve clearance in the engine.

Important: If feeling uncomfortable about doing this procedure or the proper tools are not available, please contact a Carrier dealer for service assistance. This step necessary to insure the longest life for the engine.

### To adjust valve clearance:

- Make sure the engine is at room temperature.
- Make sure that the spark plug wire is removed from the spark plug and out of the way.

MOTEC.



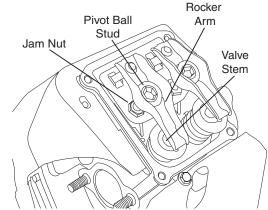
- Remove the four screws attaching the valve cover with a #2 or #3 phillips screwdriver.
- Make sure the piston is at Top Dead Center (TDC) of its compression stroke (both valves closed). To get the piston at TDC, remove the intake screen at the front of the engine to gain access to the flywheel nut. Use a large socket and socket wrench to rotate the nut and hence the engine. While watching the piston through the spark plug hole. The piston should move up and down. The piston is at TDC when it is up as high as it can go.
- Loosen the rocker jam nut. Use an 10mm allen wrench to turn the pivot ball stud while checking clearance between the rocker arm and the valve stem with a feeler gauge. Correct clearance is 0.002-0.004 inch (0.05-0.1 mm).

### NOTE:

### Hold the rocker arm jam nut in place as the pivot ball stud is turned.

When valve clearance is correct, hold the pivot ball stud in place with the allen wrench and tighten the rocker arm jam nut. Tighten the jam nut to 174 in/lbs. torque. After tightening the jam nut, recheck valve clearance to make sure it did not change.





- · Install new valve cover gasket.
- · Re-attach the valve cover.

#### NOTE:

Start all four screws before tightening or it will not be possible to get all the screws in place. Make sure the valve cover gasket is in place.

- Re-attach the spark plug wire to the spark plug.
- On GT-990, Repeat the process for the other cylinder.


### Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators

2.1 TROUBLESHOOTIN	NG GUIDE	
PROBLEM	CAUSE	CORRECTION
The engine will not crank.	1. Fuse blown.	Replace 15A fuse in generator control panel.
	<ol><li>Loose, corroded or defective battery cables.</li></ol>	Tighten, clean or replace     as necessary.
	3. Defective starter contactor. (7 kW)	3. *
	<ol><li>Defective starter motor.</li></ol>	4. *
	5. Dead Battery.	5. Charge or replace battery.
The engine cranks but	1. Out of fuel.	1. Replenish fuel.
will not start.	<ol><li>Defective fuel solenoid (FS).</li></ol>	2. *
	<ol><li>Open #14 wire from engine control board.</li></ol>	3. *
	<ol><li>Defective spark plug(s).</li></ol>	4. Clean, re-gap or replace plug(s).
	5. Valve lash out of adjustment.	5. *
The engine starts hard and runs rough.	Air cleaner plugged     or damaged.	1. Check, replace air cleaner.
	<ol><li>Defective spark plug(s).</li></ol>	2. Clean, re-gap or replace plug(s).
	3. Fuel Regulator not set.	3. Set Fuel Regulator.
	4. Fuel Pressure incorrect.	4. Confirm fuel pressure to regulator is 11-14" water column (0.4-0.5 psi) for LP, and 5-7" water column (0.18-0.25 psi) for natural gas.
The Auto/Off/Manual switch	Defective switch.	1. *
is set to OFF, but the engine continues to run.	<ol><li>Auto/Off/Manual switch wired incorrectly.</li></ol>	2. *
	3. Defective control board.	3. *
There is no AC output from the generator.	1. Main line circuit breaker open.	Reset circuit breaker     to ON (or closed).
	2. Generator internal failure.	2. *
There is no transfer to	Defective transfer switch coil.	1. *
standby after utility	<ol><li>Defective transfer relay.</li></ol>	2. *
source failure.	<ol><li>Transfer relay circuit open.</li></ol>	3. *
	4. Defective control logic board.	4. *
Unit consumes large	Break-in procedure	*
amounts of oil.	not followed (see Section 3.1).	

<sup>\*</sup>Contact the nearest Carrier Dealer for assistance.



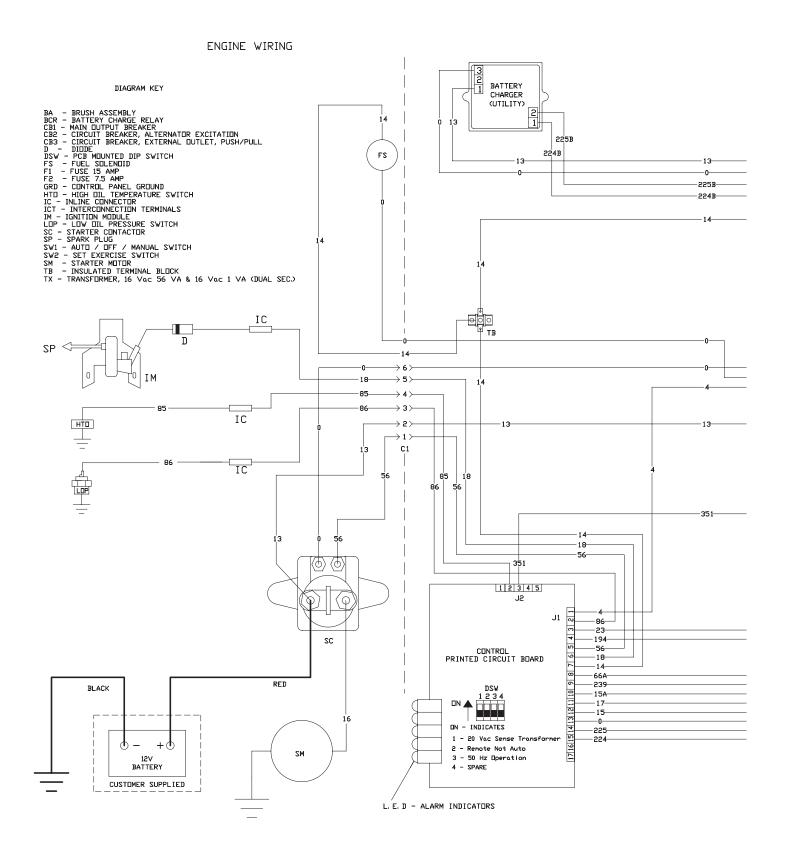
### 3.1 SERVICE SCHEDULE

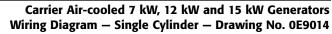
# ATTENTION: It is recommended that all service work be performed by the nearest Carrier Dealer.

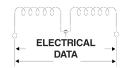
SYSTEM/COMPONENT	PROCEDURE			FREQUENCY	
X = Action R = Replace as Necessary * = Notify Dealer if Repair is Needed.	Inspect	Change	Clean	W = Weekly M = Monthly Y = Yearly	
FUEL					
Fuel lines and connections*	Χ			М	
LUBRICATION					
Oil level	Χ			M	
Oil		Х		AFTER BREAK-IN, AND Y	
Oil filter		X		AFTER BREAK-IN, AND Y	
COOLING					
Enclosure louvers	Χ		X	W	
BATTERY					
Remove corrosion, ensure dryness	Х		Х	М	
Clean and tighten battery terminals	Х		X	М	
Check charge state	Χ	R		EVERY 6 M	
Electrolyte level (unsealed batteries only)*	Х	R		EVERY 6 M	
ENGINE AND MOUNTING					
Air cleaner	Χ	R		Υ	
Spark plug(s)	X	R		Υ	
GENERAL CONDITION					
Vibration, Noise, Leakage, Temperature*	Х			М	
COMPLETE TUNE-UP*	TC	BE COMPLETED B CARRIER DEALER		Y	

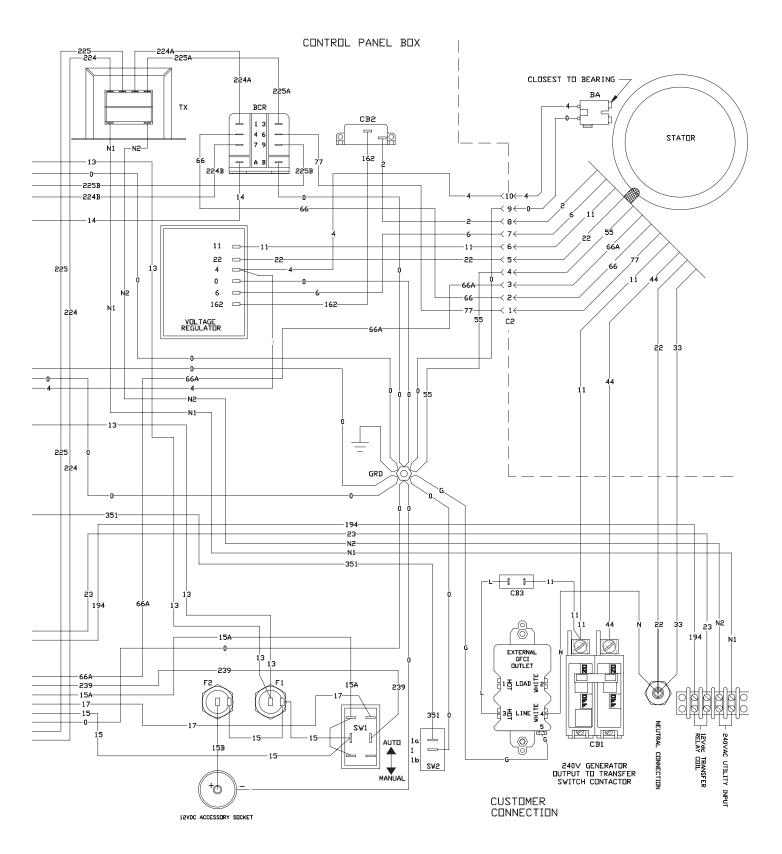


Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators Wiring Diagram — Single Cylinder — Drawing No. 0E9014

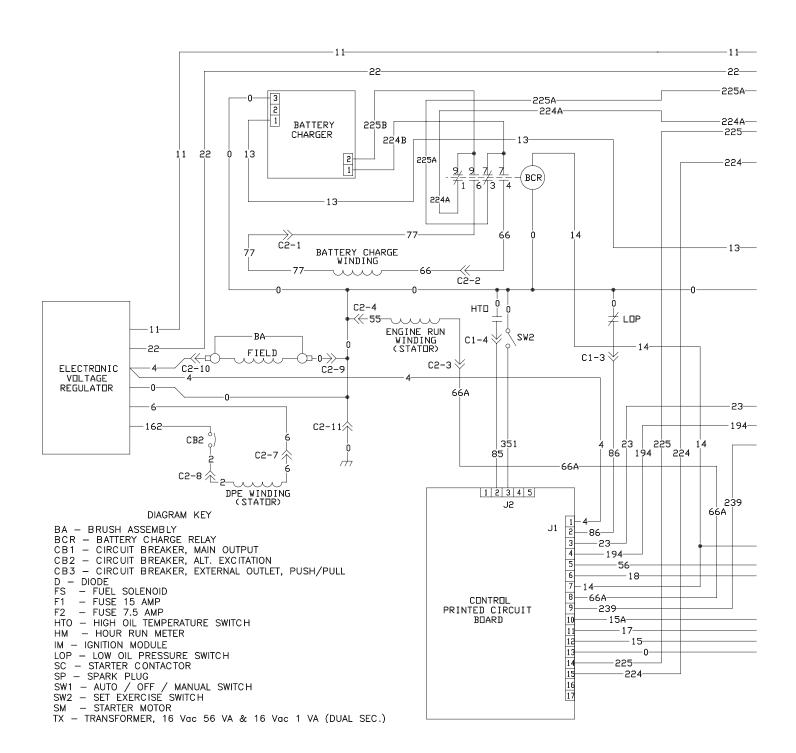






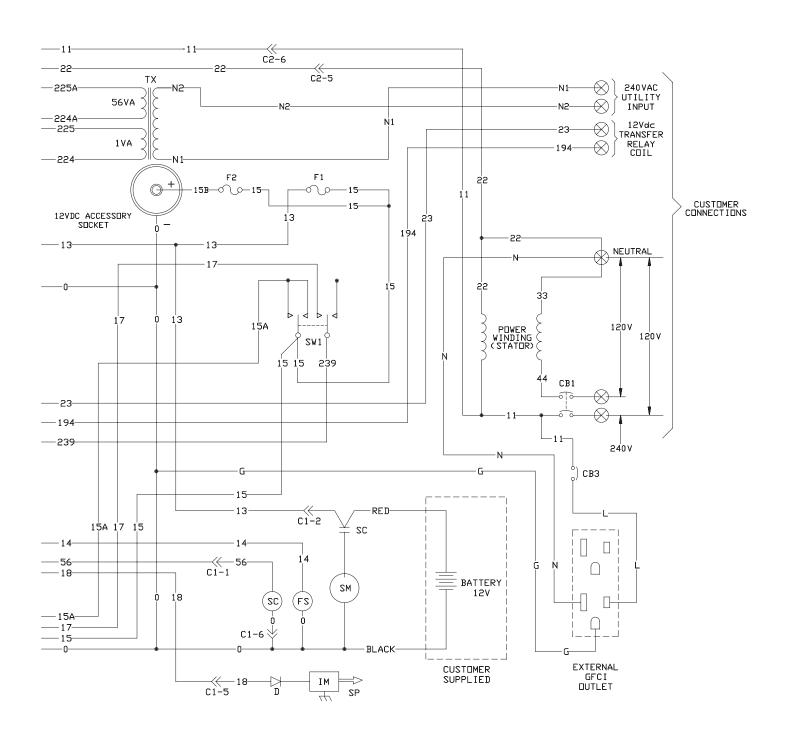


Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators Electrical Schematic — Single Cylinder — Drawing No. 0E9015





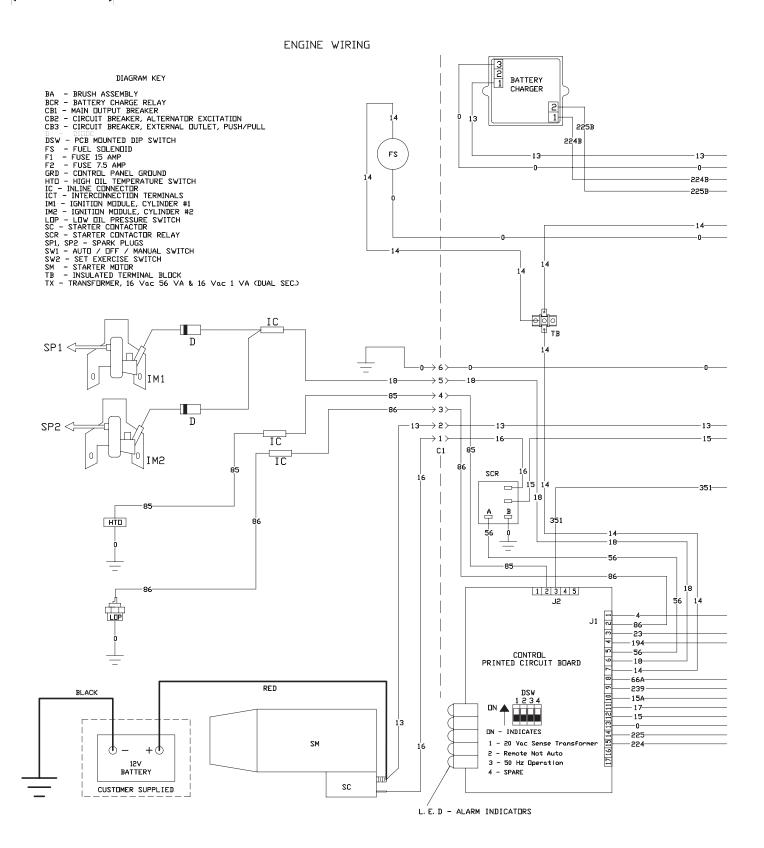
### Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators Electrical Schematic — Single Cylinder — Drawing No. 0E9015



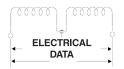
# ELECTRICAL DATA

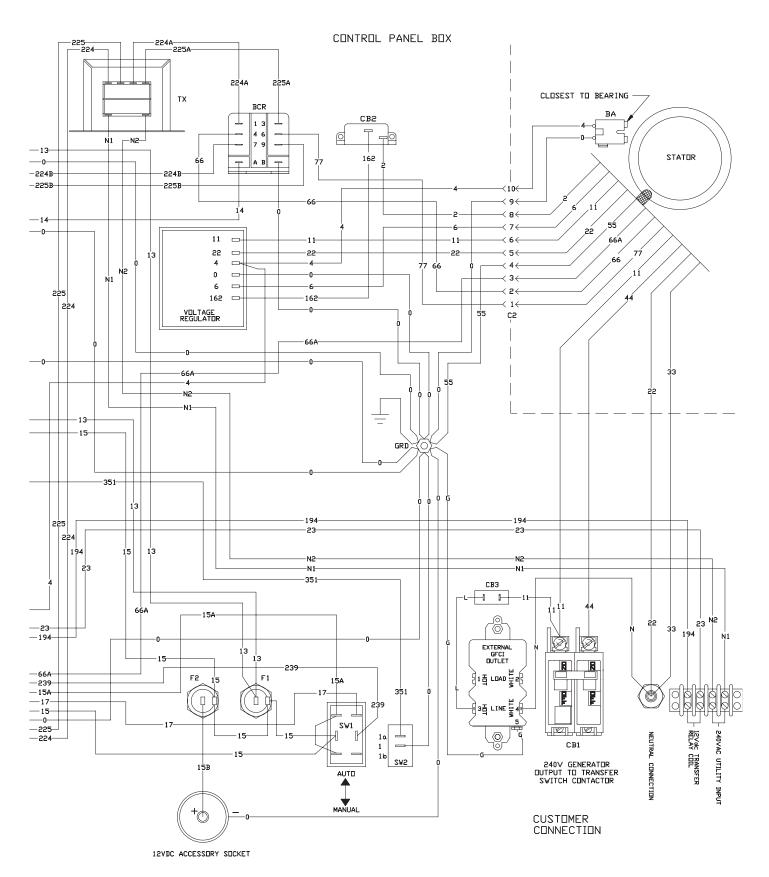
### **Section 4 - Electrical Data**

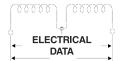
### Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators Wiring Diagram — V-Twin — Drawing No. 0E9016



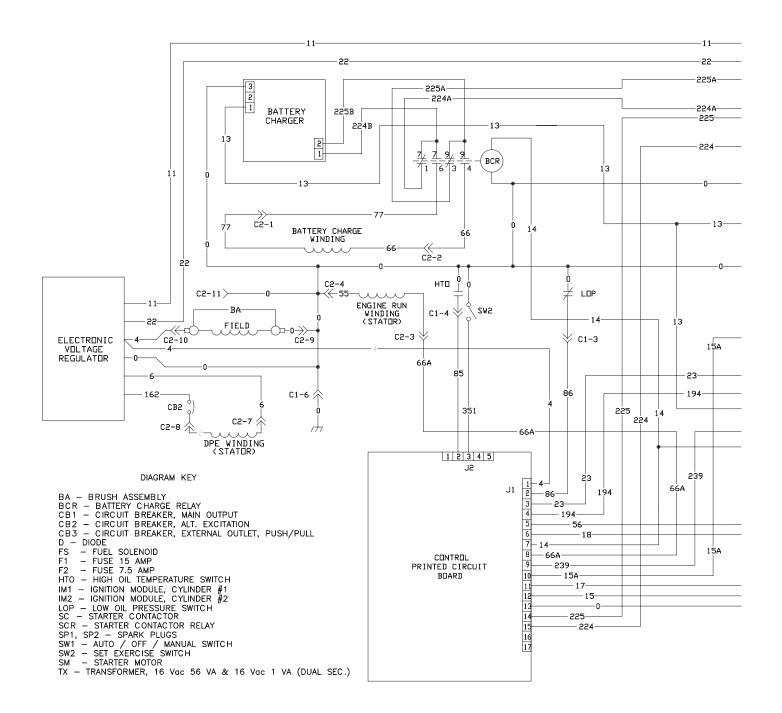
### Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators Wiring Diagram — V-Twin — Drawing No. 0E9016



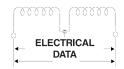


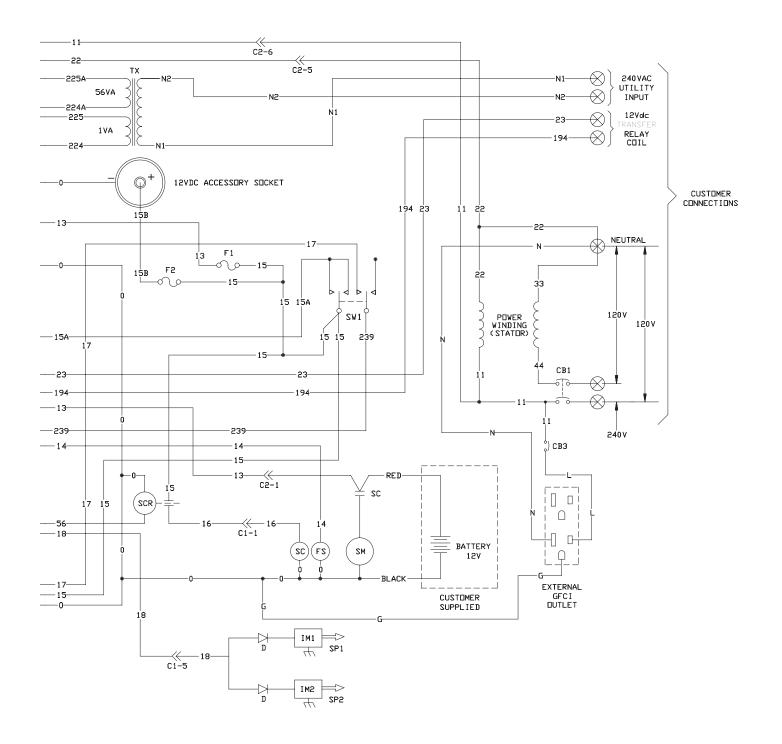


### Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators Electrical Schematic — V-Twin — Drawing No. 0E9017



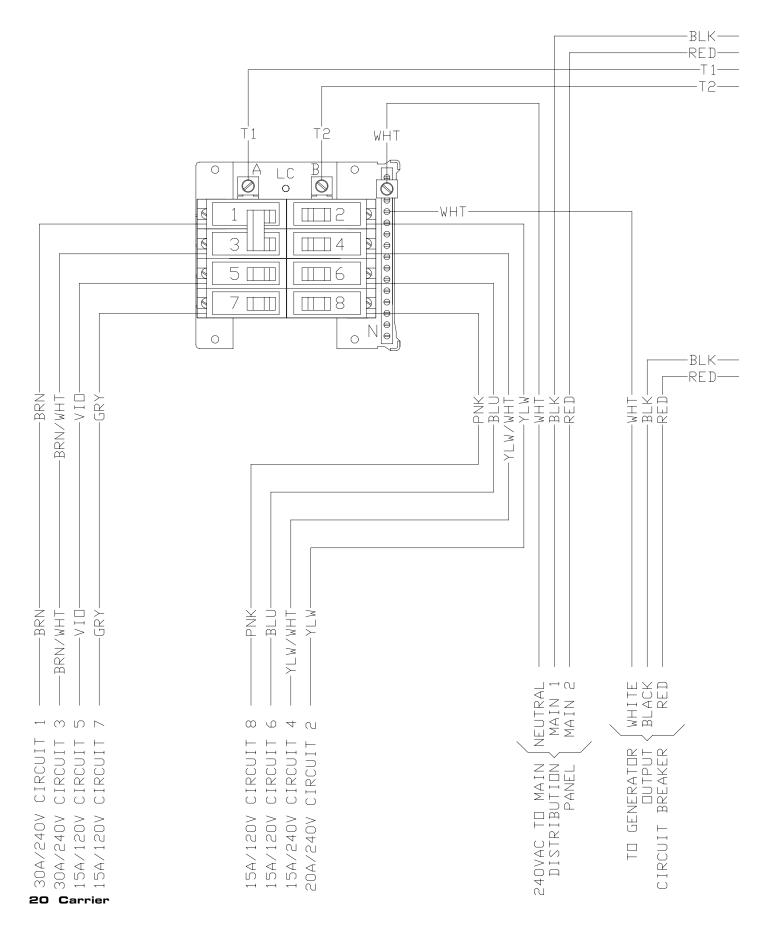
### Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators Electrical Schematic — V-Twin — Drawing No. 0E9017

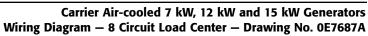


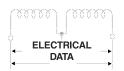


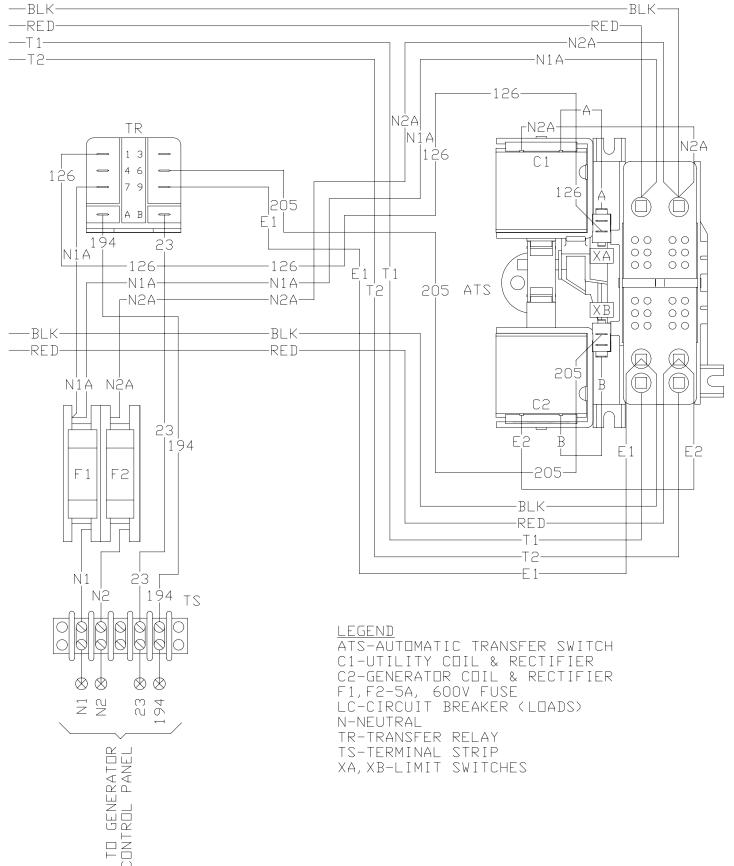


Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators
Wiring Diagram — 8 Circuit Load Center — Drawing No. 0E7687A



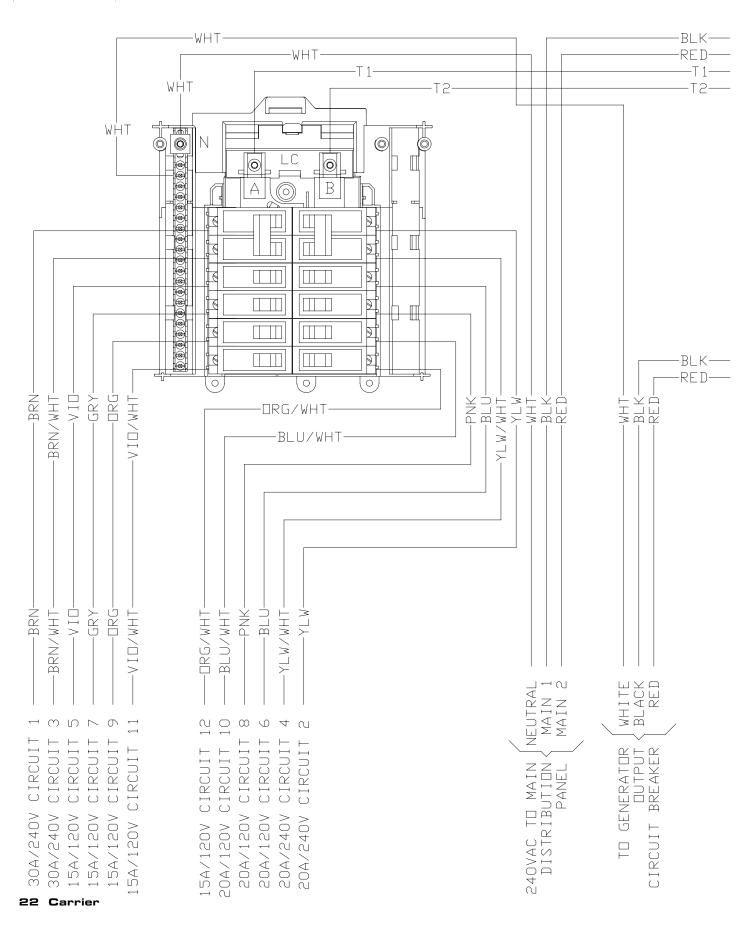




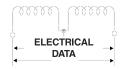


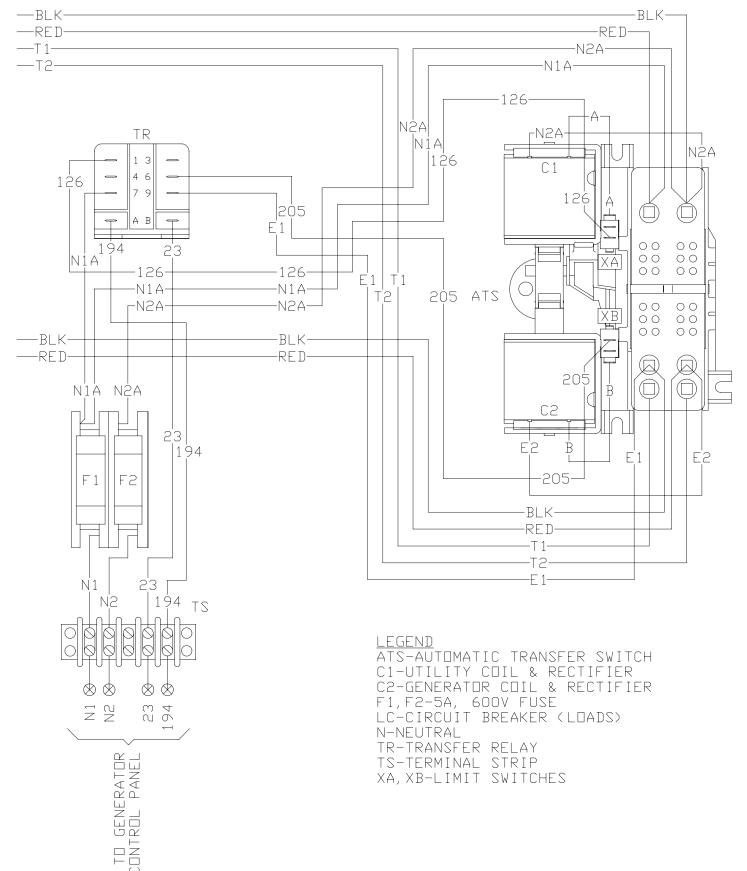


Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators
Wiring Diagram — 10 and 12 Circuit Load Center — Drawing No. 0E7687

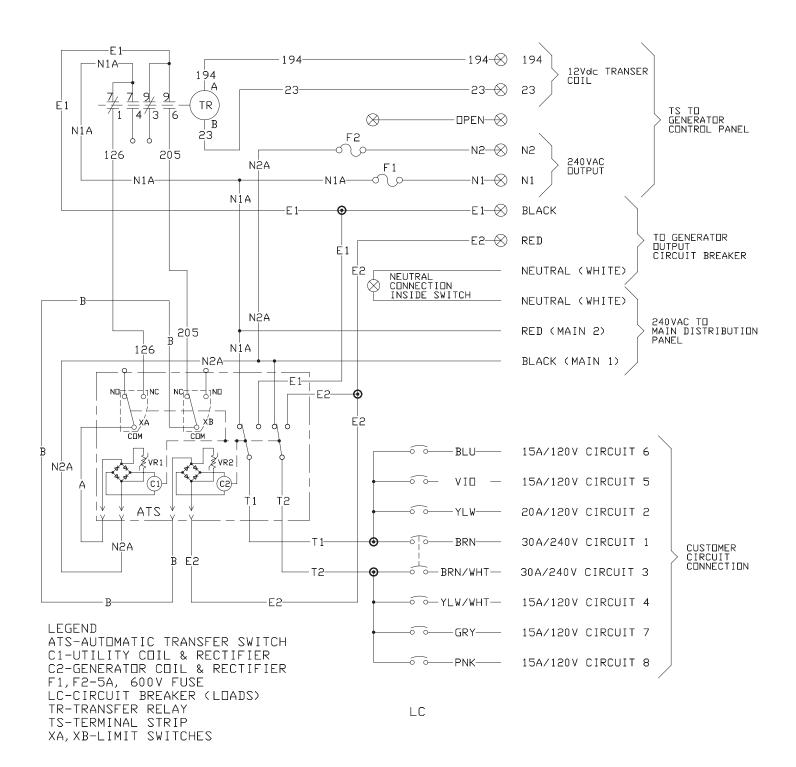


### Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators Wiring Diagram — 10 and 12 Circuit Load Center — Drawing No. 0E7687



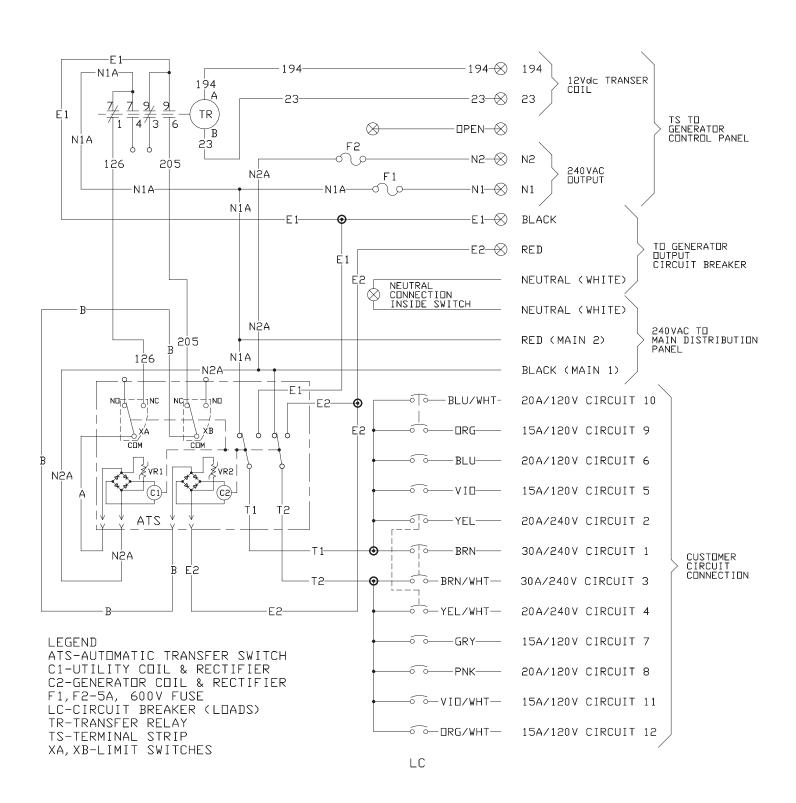


Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators Electical Schematic — 8 Circuit Load Center — Drawing No. 0E7815A



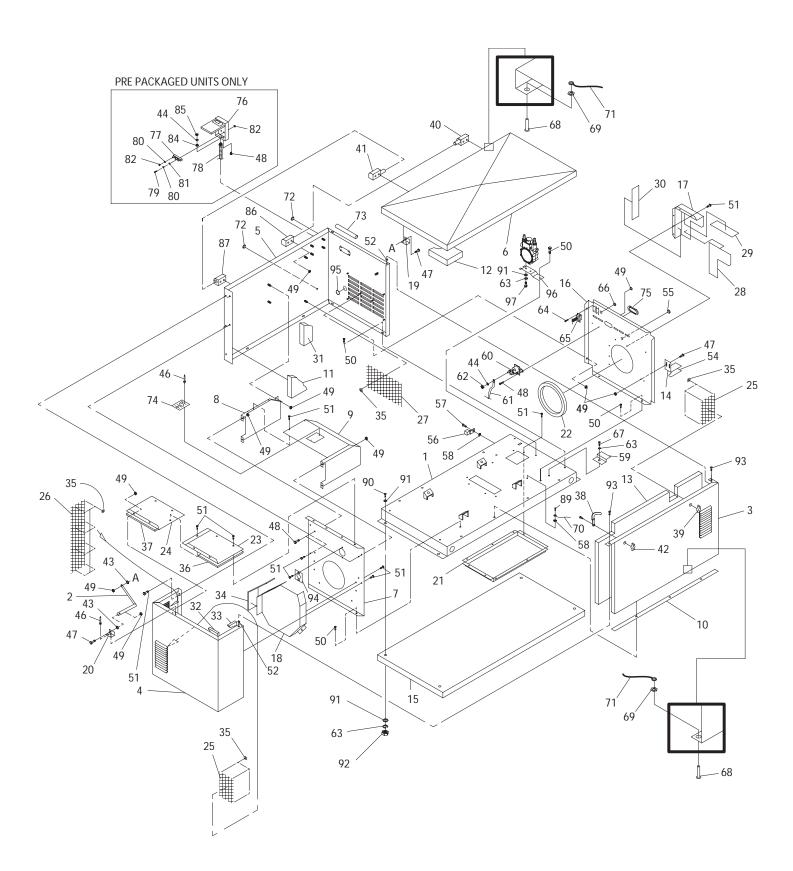


### Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators Electical Schematic — 10 and 12 Circuit Load Center — Drawing No. 0E7815





### Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators Enclosure — Drawing No. 0E9161-D



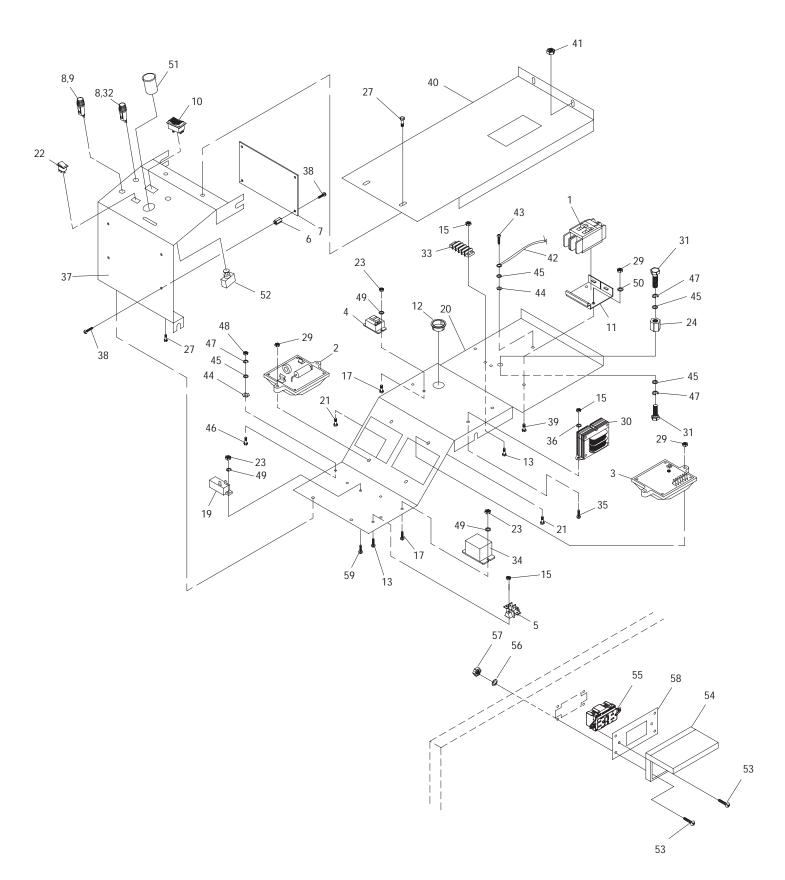
### Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators Enclosure — Drawing No. 0E9161-D



ITEM	PART NO.	QTY.	DESCRIPTION ITEM PART NO. QTY. DE		DESCRIPTION		
1	0C6140	1	ASSEMBLY, ENCLOSURE BASE	47	047411	6	SCREW HHC M6-1.0 X 16 G8.8
_	0D1901	1	ASSEMBLY, ENCLOSURE BASE (7KW)		047411	4	SCREW HHC M6-1.0 X 16 G8.8 (7KW)
2	0C6735	2	SUPPORT, ROOF FOLDING	48	043116	5	SCREW HHC M6-1.0 X 12 G8.8
3	0F0063	1	ENCLOSURE, FRONT		043116	6	SCREW HHC M6-1.0 X 12 G8.8 (7KW)
4	0C7062	1	ENCLOSURE, EXHAUST SIDE	49	0D3700	26	NUT, LOCKING FLANGE M6-1.0
_	0C7062A	1	ENCLOSURE, EXHAUST SIDE (7KW)		0D3700	24	NUT, LOCKING FLANGE M6-1.0 (7KW)
5	0E8811	1	ENCLOSURE, SIDE & BACK	50	0D4662	11	SCREW HHTT M8-1.2 X 20 BP
	0E8811A	1	ENCLOSURE, SIDE & BACK (7KW)	51	090388	36	SCREW TAPTITE M6-1.0 X 12 BP
6	0E9873	1	ENCLOSURE, ROOF			24	SCREW TAPTITE M6-1.0 X 12 BP (7KW)
7	0C7065	1	PANEL, ALTERNATOR DIVIDER	52	092120	2	NUT LOCK TRIC M6 X 1.0 Y/ZNC
	0C7065A	1	PANEL, ALTERNATOR DIVIDER (7KW)	54	0D3167	1	GASKET, BATTERY SUPPORT BRACKET
8	0C8101A	1	PANEL, MUFFLER BOX SIDE	55	0A3328	1	PLUG, PLASTIC 0.593
	0C8861	1	PANEL, MUFFLER BOX SIDE (7KW)	56	055414	1	LUG SLDLSS #2-#8X17/64 CU
9	0C8101B	1	COVER, MUFFLER BOX	57	092079	1	SCREW TAPTITE M6-1.0X25 BP
	0C8862	1	COVER, MUFFLER BOX (7KW)	58	0A1658	2	L/WASH SPECIAL 1/4
10	0C8283	1	GASKET, DOOR SEAL	59	0C2937	1	BRACKET, BATTERY HOLD DOWN (7KW)
11	0C8284A	1	FOAM, BACK ENCLOSURE	60	086729	1	CONTACTOR, STARTER (7KW)
12	0C8284B	1	FOAM, ROOF ENCLOSURE	61	0388040AJ0	1	CABLE, #6 RED BATTERY 38.5"
13	0C8284C	1	FOAM, FRONT ENCLOSURE	62	022127	2	NUT HEX 1/4-20 STEEL (7KW)
14	0C8285	1	BRACKET, BATTERY SUPPORT	63	022129	6	WASHER LOCK 5/16
15	0C8899A	1	PAD, 24"X48" W/ MOUNTING HOLES		022129	7	WASHER LOCK 5/16 (7KW)
16	0D1128	1	PANEL, ENGINE DIVIDER	64	074908	8	SCREW TAPTITE M5-0.8 X 10 BP
10	0D1128A	1	PANEL, ENGINE DIVIDER (7KW)	65	0D2346	1	HARNESS, ENGINE
17	0E4244	1	BAFFLE, INTAKE	00	0D2345	i	HARNESS, ENGINE (7KW)
17	0D1605A	1	BAFFLE, INTAKE (7KW)	66	023484F	i	BUSHING, SNAP SB-1000-12
18	0D1606	1	, , ,	67	022142	1	SCREW HHC 5/16-18 X 3/4 G5 (7KW)
10			HOUSING, FAN	68	022142 0A7836		, ,
40	0D5264	1	BAFFLE, EXHAUST (7KW)			2	RIVET,1/8" X 0.126" - 0.375" LSH POP
19	0D1839	2	BRACKET, TOP SUPPORT	69	0A8475	2	L/WASH SPECIAL #10
20	0D1840	2	BRACKET, BOTTOM SUPPORT	70	0912970069	1	ASSEMBLY, ROOF / DOOR GROUND
21	0D2425	1	DUCT, BASE AIR				WIRE
22	0D2588	1	GASKET, FRONT DIVIDER	71	0912970070	2	ASSEMBLY, ROOF / DOOR GROUND
	0D2588A	1	GASKET, FRONT DIVIDER (7KW)				WIRE
23	0D2676	1	COVER, FRONT EXHAUST ENCL.	72	055450	2	PLUG PLASTIC 1.375
24	0D2677	1	COVER, BACK EXHAUST ENCL.		025034	1	PLUG, STEEL 1.0625 (15KW)
25	0D2979B	2	CLOTH, HRDWRE 266.7mm x 146mm	73	0E5968	11	GASKET, EXTRUDED TRIM
	0D2979B	3	CLOTH, HRDWRE 266.7mm x	74	0D3701	1	PLATE, "HOT"
			146mm (7KW)	75	0D3472	1	GROMMET 2.75 X 1/16
26	0D2979C	1	CLOTH, HRDWRE 543mm x 146mm	76	0C8742	1	EXTERNAL CONNECTION BOX
27	0D2979D	1	CLOTH, HRDWRE 266.7mm x 387.4mm	77	0C8911	1	POWER BLOCK
	0D2979E	1	CLOTH, HARDWARE (7KW)	78	0D8651	1	HARNESS GENERATOR TO EXTERNAL
28	0E4245	1	FOAM, FRONT INTAKE BAFFLE				CONNECTION BOX (15KW)
	0D3058A	1	FOAM, FRONT INTAKE BAFFLE (7KW)		0D8442	1	HARNESS GENERATOR TO EXTERNAL
29	0E4245A	1	FOAM, TOP INTAKE BAFFLE				CONNECTION BOX
30	0E4245B	1	FOAM, BACK INTAKE BAFFLE		0D8652	1	HARNESS GENERATOR TO EXTERNAL
	0D3058C	1	FOAM, BACK INTAKE BAFFLE (7KW)				CONNECTION BOX (7KW)
31	0D3057D	1	FOAM, BACK ENCL. STRIP	79	036937	2	SCREW PPHM #10-32 X 1
32	0D3059A	i	FOAM, EXHAUST SIDE ENCL END	80	022152	5	WASHER LOCK #10
33	0D3059B	1	FOAM, EXHAUST SIDE ENCL FRONT	81	051713	2	WASHER FLAT M5
34	0D3059C	1	FOAM, EXHAUST FAN HOUSING	82	022158	5	NUT HEX #10-32 STEEL
35	0D30330 0D7176	24	WASHER, SELF LOCKING	83	0D3031	1	FUEL LINE, 3/4"OUTDOOR (NOT SHOWN)
33	00/1/0		·			1	,
06	000000	22 1	WASHER, SELF LOCKING (7KW)	84	026850	1	WASHER SHAKEPROOF EXT 1/4 STEEL
36	0D3059D	ı	FOAM, FRONT EXHAUST	85	049813		NUT HEX M6-1.0 G8 YELLOW CHROME
07	000000		ENCLOSURE COVER	86	0F0164A	1	HINGE TYPE A WITH STUDS, SOCKET
37	0D3059E	1	FOAM, BACK EXHAUST	87	0F0165A	1	HINGE TYPE B WITH STUDS, SOCKET
			ENCLOSURE COVER	89	0E2874	1	SCREW HHTR 1/4-20 X 3/4
38	0C7781A	2	DOOR, PAWL	90	043107	4	SCREW HHC M8-1.25 X 25
39	0D3037	1	LATCH, QUARTER TURN LOCKING	91	022145	10	WASHER FLAT 5/16
40	0F0164	1	HINGE TYPE A WITH STUDS, PIN	92	045771	4	NUT HEX M8-1.25
41	0F0165	1	HINGE TYPE B WITH STUDS, PIN	93	0C3906	2	SELF-ALIGN SCREW M6 HH
42	0D3037A	1	LATCH, QUARTER TURN NON-LOCKING	94	0E4321	1	PANEL, EXHAUST ALIGNMENT
43	0A2115	4	WASHER NYLON .250"	95	0E1330A	1	GROMMET, 38.1 CROSS SLIT WITH HOLE
44	022097	1	WASHER LOCK M6-1/4"	96	0E9692	1	BRACKET, REGULATOR MOUNTING
46	0F0710	14	RIVET POP 0.125" X 0.337"	97	042907	2	SCREW HHC M8-1.25 X 16mm



### Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators Control Panel — Drawing No. 0E9162-H



### **Section 5 - Exploded Views and Parts**

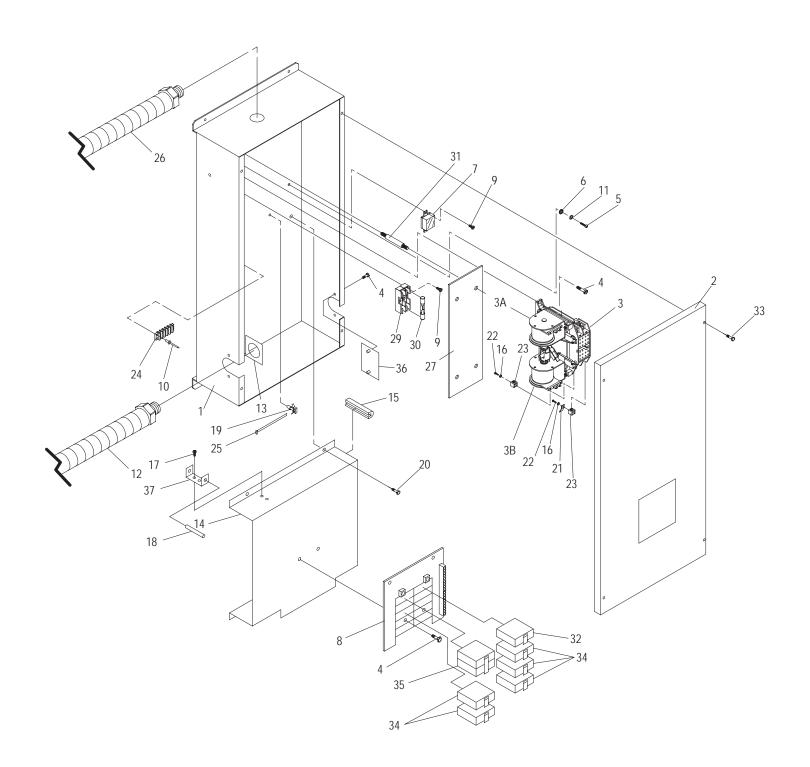


### Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators Control Panel — Drawing No. 0E9162-H

ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
1	0E7886A	1	CIRCUIT BREAKER 30A X 2P 240V	27	074908	4	SCREW TAPTITE, M5-0.8 x 10 BP
•	0_/000/	•	(7KW)	29	082025	6	NUT HEX LOCK M5-0.8 NYLON
	0E7886E	1	CIRCUIT BREAKER 50A X 2P 240V		002020	•	INSERT
	02.0002	-	(12KW)	30	0C3910	1	TRANSFORMER
	0E7886F	1	CIRCUIT BREAKER 60A X 2P 240V	31	022507	2	SCREW HHC 1/4"-20 x 1/2"
	0270001	•	(13KW)	32	0A9611	1	FUSE 7.55A X AGC5
	0E7886G	1	CIRCUIT BREAKER 70A X 2P 240V	33	046689	i	BLOCK TERMINAL STRIP 20A 4 X 6
	0270000	'	(15KW LP)	00	0 10000	•	X 1100V
2	0A1801	1	ASSEMBLY, BATTERY CHARGER	34	063617	1	RELAY PANEL 12VDC DPDT 10A
_	07.1.001	•	ENGINE	•	000017	•	240VAC
3	083049	1	ASSEMBLY, POTTED REGULATOR	35	075475	4	SCREW PPHM M4-0.7 x 10mm
4	0C2174	1	RELAY, 12V 25A SPST	36	043180	2	WASHER FLAT M4
5	075210A	1	BLOCK 1 POSITION	37	0E8812	1	COVER, CONTROL PANEL
6	0D3062	4	HEX STAND-OFF #6-32 x 3/8"	0,	020012	•	COMPONENT
7	0D8615	1	ASSEMBLY, HOME STANDBY		0E8895	1	COVER, CONTROL PANEL
,	000010	'	CONTROLLER		020000	•	COMPONENT (7KW)
	0D8615A	1	ASSEMBLY, HOME STANDBY	38	092036	8	SCREW PPHMS/LW #6-32 x 1/4"
	000010/1	•	CONTROLLER (7KW)	39	045770	2	SCREW HHC M5-0.8 x10mm
8	032300	2	HOLDER, FUSE	40	0E7866	1	COVER, CONTROL PANEL
9	022676	1	FUSE, 15AMP X AGC15	40	0E7867	1	COVER, CONTROL PANEL (7KW)
10	0E4494	1	SWITCH, ROCKER DPDT ON-OFF-	41	0D3700	8	NUT FLANGE M6-1.0 NYLOK
10	024434	ı	ON	42	0912970069	1	ASSEMBLY, ROOF/DOOR GROUND
11	0E7890	1	CIRCUIT BREAKER MOUNTING	72	0312370003	Ī	WIRE
11	0L7030	ı	BRACKET	43	0E2874	1	SCREW HHTR 1/4"-20 X 3/4"
12	023484E	1	SNAP BUSHING	44	0A1658	2	WASHER LOCK SPECIAL 1/4"
13	075476	4	SCREW PPHM M4-0.7 x 16mm	45	022473	3	WASHER FLAT 1/4"-M6
15	0E6480	6	NUT HEX LOCK M4-0.7 NYLON	45 46	038750	1	SCREW HHC M6-1.0 x 30mm
13	0L0400	U	INSERT	47	022097	3	WASHER LOCK M6-1/4"
17	0C1085	6	SCREW PPHM M3-0.5 x 8mm	48	049813	1	NUT HEX M6-1.0
17	0C1085	4	SCREW PPHM M3-0.5 x 8mm (7KW)	49	031879	6	WASHER FLAT #4
10		1	, ,	49		4	
19	054502	I	CIRCUIT BREAKER 3 X 1 ETA 46- 500-P	E0	031879 023897	2	WASHER FLAT #4 (7KW) WASHER FLAT #10
	050600	1		50 51		1	
	053623	ı	CIRCUIT BREAKER 2.5 X 1 ETA 46-		0E9056	-	SOCKET, 12VDC ACCESSORY
00	057070	4	500-P (7KW)	52	0E5840	1	CIRCUIT BREAKER 15A PUSH /
20	0E7870	1	CONTROL, PANEL BOTTOM	F0	000000	•	PULL MAIN RESET
04	0E7871	1	CONTROL, PANEL BOTTOM (7KW)	53	036903	6	SCREW PPHM #6-32 X 5/8"
21	075235	4	SCREW HHC M5-0.8 x 30mm	54	0E7833	1	PLATE, WEATHERPROOF GFCI
22	0D5240	1	SWITCH, SPST (ON)-ON N/O	55	0E4261	1	OUTLET, 15A GFCI DUPLEX
23	0D9784	6	NUT HEX LOCK M3-0.5 NYLON	56	022985	4	WASHER FLAT #6
	000004		INSERT	57	082625	4	NUT LOCK HEX #6-32 NYL INSERT
	0D9784	4	NUT HEX LOCK M3-0.5 NYLON	58	0E9171	1	GASKET, WEATHERPROOF GFCI
0.4	00000		INSERT (7KW)	59	04793	2	SCREW PPHM, M3-0.5 X 10MM
24	0D8502	1	NEUTRAL CONNECTOR				
26	0E8956	1	HARNESS, CONTROL PANEL (NOT				
			SHOWN)				
	0E8957	1	HARNESS, CONTROL PANEL WIRE				
			(NOT SHOWN) (7KW)				



Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators 7kW, 8 Circuit Load Center Assembly — Drawing No. 0E7975-B



### **Section 5 - Exploded Views and Parts**

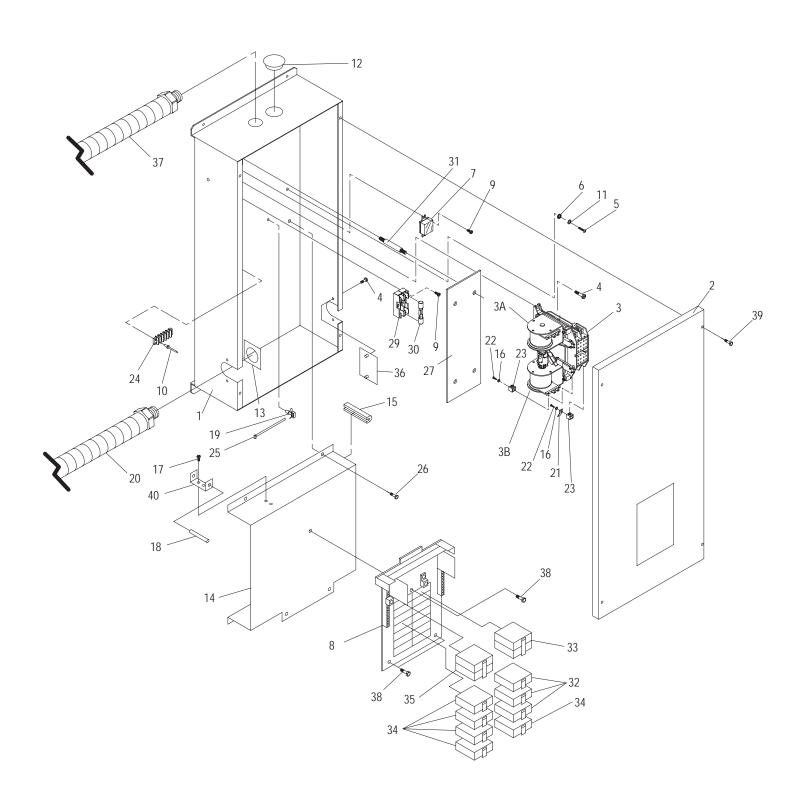


# Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators 7kW, 8 Circuit Load Center Assembly — Drawing No. 0E7975-B

ITEM	PART NO.	QTY.	DESCRIPTION
1	0D4801	1	BOX GTS LOAD CENTER
2	0D4800	1	COVER, 8 POSITION GTS LOAD CENTER
3	0C2237	1	TRANSFER SWITCH HOME STANDBY 100A 2P 250V
3A	077220	1	COIL UTILITY
3B	077220A	1	COIL STANDBY
3C	082574	1	INSULATOR-SIDEWALL (NOT SHOWN)
3D	084464	1	LIMIT SWITCH OPERATION (NOT SHOWN)
4	074908	8	SCREW TAPTITE M5-0.8 X 10 BP
5	024912	1	SCREW TAPTITE 1/4-20 X 5/8 BP
6	0A1658	1	LOCK WASHER, SPECIAL-1/4"
7	063617	1	RELAY PANEL 12VDC DPDT 10A@240VAC
8	0E7889A	i	8 CIRCUIT LOAD CENTER 125A/240V
9	0A1495	4	SCREW HHTT M4-0.7 X 10
10	0A1661	2	RIVET POP 0.156" X 0.675"
11	022473	1	WASHER FLAT 1/4-M6
12	0D3094	1	HARNESS,GTS TO MAIN PANEL
13	0D4684A	1	PLATE HARNESS ADAPTER
14	0E7900	1	SUBPLATE, LOAD CENTER
15	0F4790	10.5"	U-CHANNEL
16	022152	6	WASHER LOCK #10
17	064526	2	SCREW HWHS #6-25 X 3/8
18	0E6155	1	ARM EXTENDER PIN
19	063378	4	HOLDER CABLE TIE
20	0A2110	4	SCREW SWAGE 1/4-20 X 1/2 ZINC
21	074138	2	LUG QUICK DISCONNECT NI-S 10X45 DEG BRASS / TIN
22	036933	6	SCREW PPHM #10-32 X 3/8"
23	077033	6	LUG SLDLSS 1/0-#14X9/16 AL/CU
24	048850	1	BLOCK TERMINAL 20A 5 X 6 X 1100V
25	028739	4	TIE WRAP UL 3.9" X .10" NAT'L
26	0D4802	1	HARNESS, GTS TO EXTERNAL CONNECTION BOX
27	0D3191	1	COVER, RELAY & TERM BLOCK
28	0D3088	1	WIRE HARNESS,GTS LOAD CENTER (NOT SHOWN FOR CLARITY)
29	073591	2	FUSE HOLDER
30	073590A	2	FUSE 5A X BUSS
31	040213B	4	PCB SUPPORT SNAP-IN 1-3/8"
32	0E7888C	1	CIRCUIT BREAKER 20A X 1P
33	0A7215	4	SCREW SW 1/4-20X5/8 WITH WASHER
34	0E7888B	5	CIRCUIT BREAKER 15A X 1P
35	0E7888A	1	CIRCUIT BREAKER 30A X 2P
36	0D3320	1	COVER - HARNESS ENTRY
37	0E6193	1	BRACKET, ARM EXTENDER



Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators 12 kW (10 Circuit) and 15 kW (12 Circuit) Load Center Assembly — Drawing No. 0E7973-E



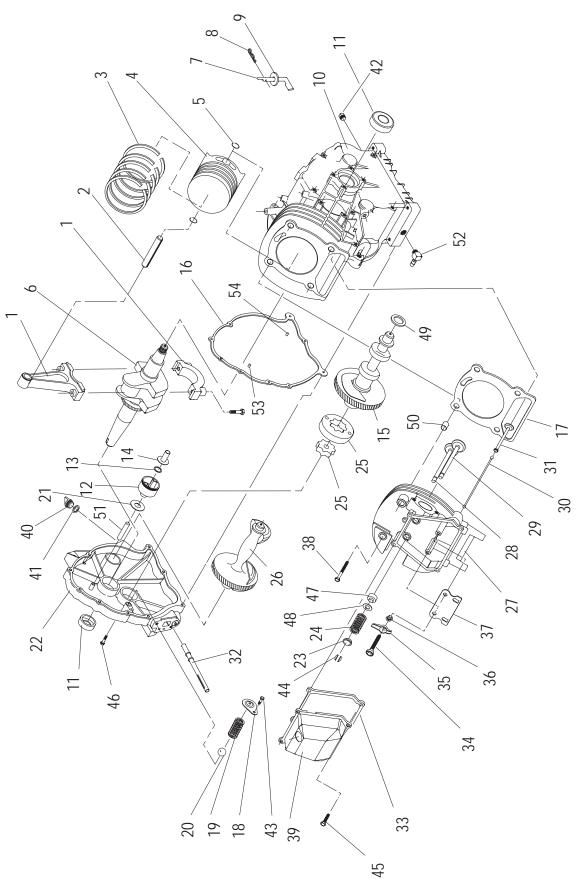
### PARTS LISTS

# Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators 12 kW (10 Circuit) and 15 kW (12 Circuit) Load Center Assembly — Drawing No. 0E7973-E

ITEM	PART NO.	QTY.	DESCRIPTION
1	0D3086	1	BOX GTS LOAD CENTER
2	0D3092	1	COVER, 12 POSITION GTS LOAD CENTER
	0F5211	1	COVER, 10 POSITION GTS LOAD CENTER
3	0C2237	1	TRANSFER SWITCH HOME STANDBY 100A 2P 250V
3A	077220	1	COIL UTILITY
3B	077220A	1	COIL STANDBY
3C	082574	1	INSULATOR-SIDEWALL (NOT SHOWN)
3D	084464	1	LIMIT SWITCH OPERATION (NOT SHOWN)
4	074908	6	SCREW HHTT M5-0.8 X 10
5	024912	1	SCREW HHTT 1/4-20 X 5/8
6	0A1658	1	LOCK WASHER, SPECIAL-1/4"
7	063617	1	RELAY PANEL 12VDC DPDT 10A@240VAC
8	0E7889	1	12 CIRCUIT LOAD CENTER 125A/240V
9	0A1495	4	SCREW HHTT M4-0.7 X 10
10	0A1661	2	RIVET POP .156" X .675"
11	022473	1	WASHER FLAT 1/4-M6 ZINC
12	055450	1	PLUG PLASTIC 1.375
	025034	1	PLUG STEEL 1.0625 (15KW)
13	0D4684	1	HARNESS ADAPTER PLATÉ
14	0E7900	1	SUBPLATE, LOAD CENTER
15	056326	10.5"	TRIM VINYL BLACK 1/8"GP
16	022152	6	WASHER LOCK #10
17	064526	2	SCREW HWHS #6-25 X 3/8"
18	0E6155	1	ARM EXTENDER PIN
19	063378	4	HOLDER CABLE TIE
20	0D3094	1	HARNESS,GTS TO MAIN PANEL
21	074138	2	LUG QUICK DISCONNECT NI-S 10X45 DEG BRASS / TIN
22	036933	6	SCREW PPHM #10-32 X 3/8"
23	077033	6	LUG SLDLSS 1/0-#14X9/16 AL/CU
24	048850	1	BLOCK TERMINAL 20A 5 X 6 X 1100V
25	028739	4	TIE WRAP 3.9" X .10"
26	0A2110	4	SCREW SWAGE 1/4-20 X 1/2" ZINC
27	0D3191	1	COVER, RELAY & TERMINAL BLOCK
28	0D3088	1	WIRE HARNESS,GTS LOAD CENTER (NOT SHOWN FOR CLARITY)
29	073591	2	FUSE HOLDER
30	073590A	2	FUSE 5A X BUSS
31	040213B	4	PCB SUPPORT SNAP-IN 1-3/8"
32	0E7888C	3	CIRCUIT BREAKER 20A 1P
33	0E7888	1	CIRCUIT BREAKER 20A 2P
34	0E7888B	5	CIRCUIT BREAKER 15A 1P (12 POSITION LOAD CENTER)
	0E7888B	3	CIRCUIT BREAKER 15A 1P (10 POSITION LOAD CENTER)
35	0E7888A	1	CIRCUIT BREAKER 30A 2P
36	0D3320	1	COVER - HARNESS ENTRY
37	0D3093	1	HARNESS, GTS TO EXT CONN BOX
	0D8597	1	HARNESS, GTS TO EXT CONN BOX (8.5KW)
	0D3926	1	HARNESS, GTS TO EXT CONN BOX (15KW)
38	075475	2	SCREW PPHM M4-0.7 X 10
39	0A7215	4	SCREW SW 1/4"-20 X 5/8" WITH WASHER
40	0E6193	1	BRACKET, ARM EXTENDER



Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators GN410 Engine — Drawing No. 0F4716 Page 1



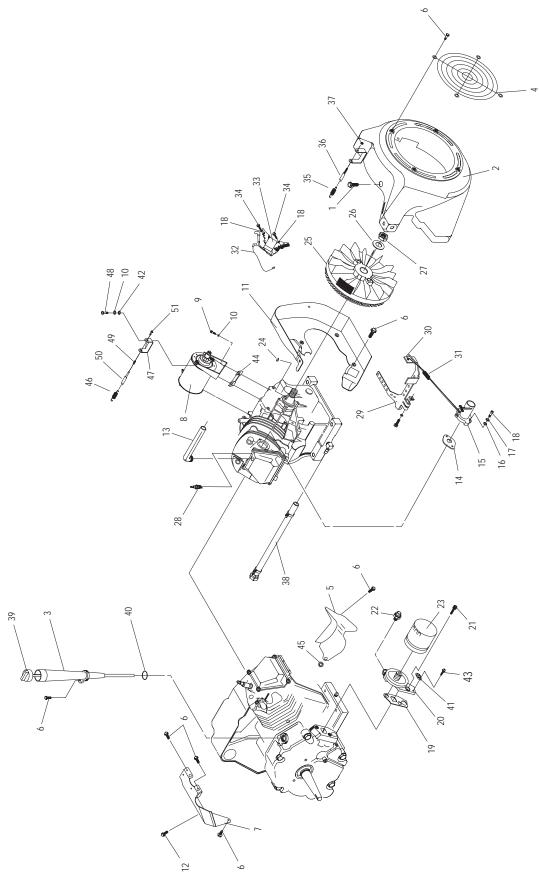


# Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators GN410 Engine — Drawing No. 0F4716 Page 1

ITEM	PART NO.	QTY.	DESCRIPTION
1	0E3221	1	ASSEMBLY, CONNECTING ROD
2	0E1466	1	PIN, PISTON D20
3	021533	1	SET, PISTON RING 90MM
4	0E2985	1	PISTON, HC
5	071983	2	RETAINER, PISTON PIN 20
6	0E8440	1	ASSEMBLY, CRANKSHAFT GH410 SMALL TAPER
7	0A7628	1	ARM, GOVERNOR RC45
8	078658	1	PIN, "R" GOVERNOR ARM
9	078659	2	WASHER, GOVERNOR ARM THRUST
10	088261E	1	CRANKCASE, SUBASSEMBLY WITH PLUGS GH410
11	0E3812	2	SEAL, 35 I.D. CRANKSHAFT
12	0E6519	1	ASSEMBLY, GOVERNOR GEAR
13	078645	1	C-RING, GOVERNOR GEAR RETAINER
14	0A7811	1	SPOOL, GOVERNOR- MACHINE
15	0A9877	1	ASSEMBLY, CAMSHAFT & GEAR
16	076701	1	GASKET, CRANKCASE
17	021713B	1	GASKET, HEAD 410
18	078691	1	COVER, OIL PRESSURE RELIEF
19	0A5771	1	SPRING, OIL RELIEF 360
20	0A5776	1	BALL, DIA 11/32 PRESSURE RELIEF
21	076361	1	WASHER, THRUST GOVERNOR GEAR
22	0A8898D	1	ASSEMBLY, COVER, GEAR TOP CHECK / FILL
23	0D2274	2	RETAINER, VALVE SPRING
24	0C4391	2	VALVE SPRING LF
25	086025	1	SET,GEROTOR 12 THK
26	0E3341	1	BALANCER
27	021714	1	ASSEMBLY,CYLINDER HEAD SEATS & GUIDES
28	086516	1	VALVE, EXHAUST
29	086517	1	VALVE, INTAKE
30	0D9853B	2	PUSH ROD 174.9
31	083897	2	TAPPET
32	077158	1	ASSEMBLY, SCREEN OIL PICK-UP
33	0C3150	1	GASKET, ROCKER COVER 410
34	072694	2	STUD, D20 PIVOT BALL
35	083907	2	ROCKER ARM
36	072696	2	NUT, JAM (ROCKER ARM)
37	078694	1	PLATE, PUSH ROD GUIDE
38	021742	4	SCREW, HHFL M10-1.5 X 105
39	0D6094	1	ASSEMBLY, ROCKER COVER BREATHER
40	076329	1	PLUG, OIL FILL PLASTIC
41	0E0057	1	O-RING 17.8 I.D. x 2.4
42	0D4788	1	PLUG, STANDARD PIPE 3/8 STEEL SQUARE HEAD
43	074908	1	SCREW, TAPTITE M5-0.8 X 10 BP
44	086515	4	KEEPER, VALVE SPRING
45	078606	4	SCREW & LOCKWASHER M6-1 X 12
46	0A1442	8	SCREW, HHFC M8-1.25 X 42
47	078672	1	SEAL, VALVE STEM D7
48	089673	2	WASHER, VALVE SPRING
49	0B2104	1	WASHER, LARGE SPRING
50	078699C	2	DOWEL, SEAMED SLEEVE
51	0A7627	1	SHAFT, GOVERNOR RC55
52	043790A	1	BARBED ELBOW 90 3/8NPT X 3/8 LOCKTITE
53	088590	1	DOWEL DIA 12 X 18L
54	078699B	1	DOWEL, SLEEVE SEAMED 12 DIA.



Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators GN410 Engine — Drawing No. 0F4716 Page 2



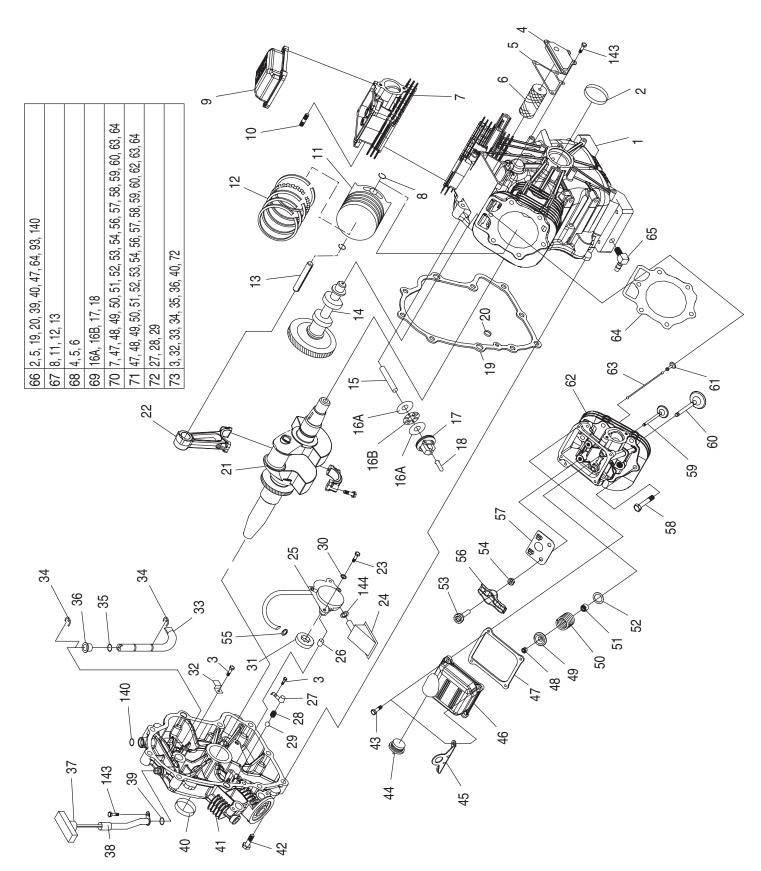


# Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators GN410 Engine — Drawing No. 0F4716 Page 2

ITEM	PART NO.	QTY.	DESCRIPTION
1	0C1069	5	SCREW, TAPTITE M6-1.0X8 YELLOW CHROME
2	0D2922	1	HOUSING, BLOWER
3	0C8435	1	TUBE, DIPSTICK
4	0C9997	1	GUARD, FAN
5	088434	1	WRAPPER, BOTTOM
6	045756	11	SCREW, TAPTITE M6-1X10 YELLOW CHROME
7	0C4176A	1	WRAPPER, TOP
8	0D9004A	1	ASSY, STARTER
9	059985	2	SCREW, SHC M8-1.25 X 45 G12.9
10	022129	3	WASHER, LOCK M8-5/16
11	0C2458A	1	BACKPLATE, L/F D/F
12	083512	1	SCREW, TAPTITE M8-1.25 X 16 BP
13	0D1401A	1	BREATHER TUBE
14	091039	1	GASKET, INTAKE ADAPTER
15	0C9619	1	ASSEMBLY, PLASTIC CARB
16	049811	2	WASHER, FLAT M6
17	022097	4	WASHER, LOCK M6-1/4
18	040945	2	SCREW, SHC M6-1.0 X 20 G12.9
19	086999	1	GASKET, OIL FILTR ADAPTER
20	0D5667A	1	ADAPTER, OIL FILTER
21		2	
22	049821	1	SCREW, SHC M8-1.25 X 30 G12.9
	099236		SWITCH, OIL 8.0 PSI
23	070185D	1	OIL FILTER
24	082774	1	KEY, WOODRFF 4 X 19D
25	091222E	1	FLYWHEEL WITH RING GEAR 32DEG.
26	067198N	1	WASHER,BELV-20 X 2.2
27	067890	1	NUT, HEX - FLYWHEEL
28	0E7585	1	SPARKPLUG
29	072734	1	ASSEMBLY,GOVERNOR LEVER 12 HP
30	072735	1	ROD,GOVERNOR CONTROL.
31	0C3978	1	SPRING, ANTI-LASH
32	0C6040	1	ASSEMBLY, WIRE
33	0D9760	1	ASSEMBLY, IGNITION COIL
34	092079	2	SCREW, TAPTITE M6-1.0 X 25 BP
35	0F3800	1	SPRING GOVERNOR
36	083502	1	BOLT, GOVERNOR ADJUST M5
37	082025	1	NUT HEX LOCK M5-0.8 NYINS ZINC
38	0D3083	1	ASSEMBLY, OIL DRAIN HOSE
39	0E7887C	1	ASSEMBLY, CAP & DIPSTICK
40	090072	1	O-RING 9/16 X 3/4 X 3/32
41	075281	1	SWITCH, THERMAL
42	022145	1	WASHER FLAT 5/16 - M8
43	0F2094	2	SCREW, M3-0.5 X 6 SEMS
44	0C4373	1	SPACER, ENDFRAME
45	022717B	1	GOMMET
46	0F3865	1	SPRING SECONDARY
47	0F3855	1	BRACKET SECONDARY GOVERNOR SPRING
48	042907	1	SCREW HHC M8-1.25 x 16
49	0D3751	1	SPRING, IDLE RETURNING
50	0F3921	1	BARREL GOVERNOR ADJUSTMENT
51	0C8493	1	SCREW SHC M5-0.8 x 30
-	<del>-</del>	•	



Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators GT-990 Engine - Drawing No. F4715 Page 1



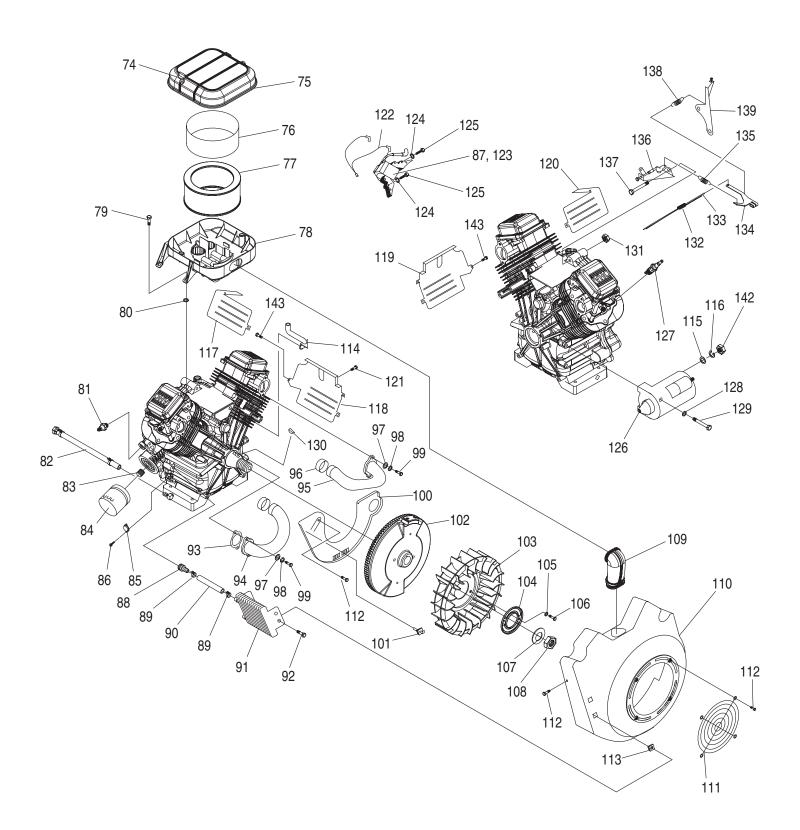


# Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators GT-990 Engine - Drawing No. F4715 Page 1

ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
1	0C5729	1	ASSEMBLY, CRANKCASE HOUSING	37	0C3971C	1	ASSEMBLY, DIPSTICK WITH HANDLE
ı	003723	Į.	WITH SLEEVE	38	0C5305	1	TUBE, DIPSTICK
2	0E9843	1	SEAL, 38 I.D. CRANKSHAFT	39	0C3027	1	O-RING, OIL CLR 3/8 X 1/2
3	090388	3	SCREW, TAPTITE M6-1.0 X 12 YC	40	0E9842	1	SEAL, 42 I.D. CRANKSHAFT
4	0C5372	1	ASSEMBLY, BREATHER	41	0C5731	1	ASSEMBLY, HOUSING COVER WITH
5	0C3005	1	GASKET, BREATHER COVER	71	000701		SLEEVE
6	0E3372B	1	SEPARATOR, OIL BREATHER	42	0C3006	9	SCREW, HHFC M10-1.5 X 55
7	0D8067A	1	ASSEMBLY, HEAD #1 G&S	43	080318	8	SCREW HHFC M6-1.0 X 25
8	071983	4	RETAINER, PISTON PIN 20	44	093064	1	ASSEMBLY, OIL FILL CAP
9	0C2981C	1	ROCKER, COVER NO OIL FILL	45	0C8808	2	HOOK, LIFTING
10	045761A	4	STUD M8-1.25/10MM X 30 G5 ZINC	46	0D2723B	1	ROCKER, COVER WITH OIL FILL
11	0E2985	2	PISTON, HC	47	0C2979	2	GASKET, VALVE COVER
12	021533	2	SET, PISTON RING 90MM	48	086515	8	KEEPER, VALVE SPRING
13	0E1466	2	PIN PISTON	49	000313 0D2274	4	RETAINER, VALVE SPRING
14	0D4041	1	ASSEMBLY, CAMSHAFT & GEAR	50	0D2274 0D3867	4	SPRING, VALVE
15	0C2983	1	SHAFT, GOVERNOR	50 51	078672	2	SEAL, VALVE STEM D7
16 A	0C2985A	2	ROLLER BEARING, GOVERNOR	52	0C5371	4	WASHER, VALVE SPRING
107	00230JA	2	PLATE	53	072694	4	STUD, ROCKER ARM PIVOT
16B	0C2985B	1	ROLLER BEARING, GOVERNOR	53 54	072694 0D3998	4	NUT HEX M8-1.0 G8 YEL CHR
17	002963B 0D4042	1	ASSEMBLY,GOVERNOR GEAR	5 <del>4</del> 55	0C3027	2	O-RING, 3/8" X 1/2"
18	0D4042 0A7811	1	SPOOL, GOVERNOR MACHINED	56	0D5313	4	•
		1		56 57			ROCKER ARM
19	0C2977		GASKET, CRANK CASE		0D6024	2 12	PLATE, PUSH ROD GUIDE
20	0C5943	1	SEAL, OIL PASSAGE	58	0C2976		SCREW HHFC M8-1.25 X 65
21	0E4357E	1	ASSEMBLY, CRANKSHAFT	59	086516	2	VALVE, EXHAUST
00	050000	•	HORIZONTAL DIRECT DRIVE	60	0C2229	2	VALVE, INTAKE
22	0E3223	2	ASSEMBLY, CONNECTING ROD	61	083897	4	TAPPET, SOLID
23	0D2157	2	SCREW SHC M6-1.0 X 50 G8.8	62	0D8067B	1	ASSEMBLY, HEAD #2 G&S
24	0E6098	1	SCREEN, OIL PICKUP	63	0D9853D	4	PUSHROD, 147
25	0D4123A	1	ASSEMBLY, OIL PUMP	64	0C2978	2	GASKET, HEAD
26	078699E	2	SLEEVE, SEAMED DOWEL 10 DIA.	65	043790A	1	BARBED ELBOW 90 3/8NPT X 3/8
27	0C3011	2	COVER, OIL RELIEF			_	LOCKTITE
28	0C3009	2	SPRING, OIL RELIEF	66	0D4010	1	KIT GASKET
29	0C3010	2	BALL, 1/2D OIL RELIEF	67	0D4011	1	KIT PISTON & RINGS
30	093873	2	WASHER, LOCK RIB M6	68	0D4012	1	KIT BREATHER ASSEMBLY
31	0C5315	1	GEROTOR, OUTER	69	0D4013	1	KIT GOVERNOR ASSEMBLY
32	0C5998	1	CLAMP, OIL TUBE	70	0D8675A	1	KIT HEAD ASSEMBLY CYLINDER 1
33	0D1667	1	ARM, GOVERNOR	71	0D8675B	1	KIT HEAD ASSEMBLY CYLINDER 2
34	0C2991	2	E-RING, GOVERNOR ARM	72	0D4015	1	KIT OIL RELIEF
35	0C2988	1	THRUST WASHER, GOVERNOR	73	0D4016	1	KIT GEAR COVER
36	0C2992	1	BUSHING, GOVERNOR LOWER				



Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators GT-990/760 Engine - Drawing No. F4715 Page 2



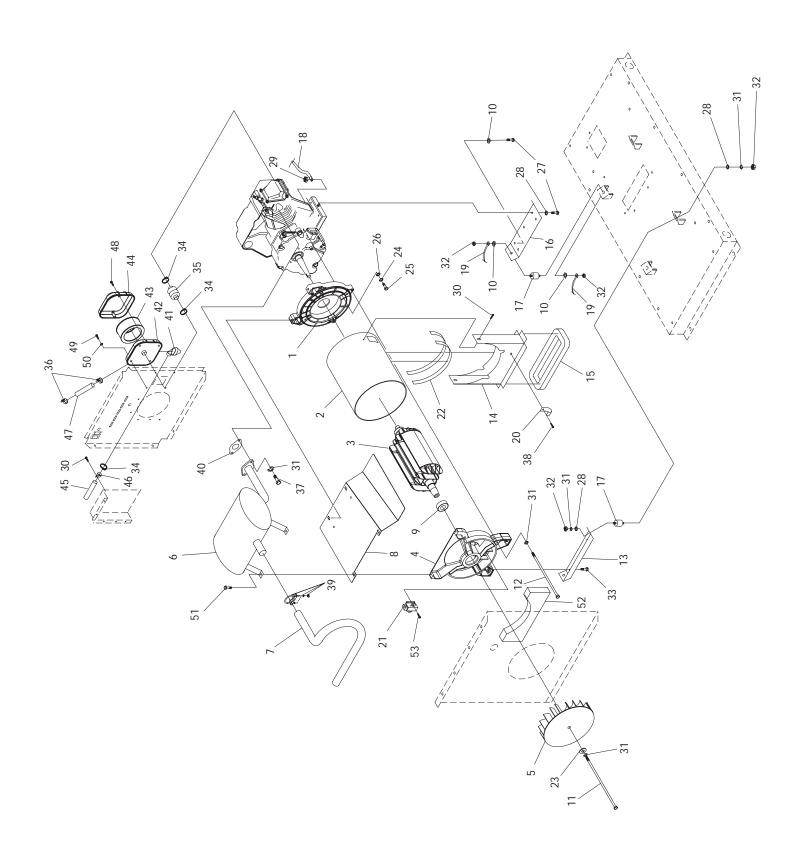


# Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators GT-990/760 Engine - Drawing No. F4715 Page 2

ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
74	0C5136A	2	KNOB, AIR CLEANER	110	0F1169A	1	HOUSING, BLOWER NG COOLER
75	0C3024	1	COVER, AIRBOX NG/LP	111	0D1131	i	GUARD, FAN
76	0C3040	1	PRE-CLEANER,	112	045756	25	SCREW TAPTITE M6-1X10 YELLOW
77	0C8127	1	ELEMENT, AIR CLEANER			-	CHROME
78	0D8564A	1	ASSEMBLY, MIXER/AIRBOX 990	113	0C9763	4	NUT, GROMMET 1/4 PLUG
	0D8564B	1	ASSEMBLY, MIXER/AIRBOX 760	114	0C3036A	1	HOSE, BREATHER
79	0D2595	4	SCREW SHOULDER (8MM)	115	022145	1	WASHER FLAT 5/16-M8 ZINC
			M6-1.0 X 18	116	022129	1	WASHER LOCK M8-5/16
80	0D4417	4	WASHER, RUBBER 1/4" X 1/8" THICK	117	0C3018	1	WRAPPER, UPPER CYLINDER 1
81	0C3025	1	SWITCH, OIL PRESS	118	0C3019	1	WRAPPER, LOWER CYLINDER 1
82	0D3083	1	ASSEMBLY, OIL DRAIN HOSE	119	0D1142A	1	WRAPPER, LOWER CYLINDER 2
83	0C7292	1	NIPPLE, 3/4"-16 UNF	120	0D1143	1	WRAPPER, UPPER CYLINDER 2
84	070185D	1	OIL FILTER	121	0E6043	2	SCREW TAPTITE M5-0.8 X 8 ZP
85	075281	1	SWITCH, THERMAL 284F	122	0F1177	1	ASSEMBLY, GROUND WIRE
86	0F2094	2	SCREW M3-0.5 X 6 SEMS	123	0F1338B	1	ASSY, IGN COIL W/DIODE NO ADV
87	0F1338A	1	ASSY, IGN COIL W/DIODE NO ADV	124	022097	4	WASHER LOCK M6-1/4
88	035461A	2	BARBED STR 1/4NPT X 3/8 WITH	125	092079	4	SCREW TAPTITE M6-1.0 X 25 BP
			VIBRA SEAL	126	0E4271	1	STARTER
89	0C7649	4	CLAMP HOSE .3887	127	0D4529	2	SPARKPLUG
90	0C9806	2	HOSE, 3/8" I.D. X 6" LONG	128	022129	2	WASHER LOCK M8-5/16
91	0C3026	1	COOLER, OIL	129	061906	2	SCREW HHC M8-1.25 X 85 G8.8
92	0C9764	4	PLASTITE,1/4-15 X 3/4	130	082774	1	KEY, WOODRUFF 4 X 19D
93	0C3043	2	GASKET, MANIFOLD / PORT	131	0E5343	1	NUT HEX LOCK M10-1.50
94	0C7694	1	MANIFOLD CYLINDER 2	132	0C8468	1	SPRING, ANTI-LASH
95	0C7693	1	MANIFOLD CYLINDER 1	133	0C3048	1	ROD, GOVERNOR CONTROL
96	0C3041A	2	SLEEVE, RUBBER	134	0D3754	1	ASSEMBLY, GOVERNOR LEVER
97	070008	4	WASHER FLAT M8 SS	135	0D3742	1	SPRING, GOVERNOR
98	070006	4	WASHER LOCK M8 SSTL	136	0C8482	1	ASSEMBLY, GOVERNOR ADJUSTER
99	040976	4	SCREW SHC M8-1.25 X 20 G12.9	137	0E0486	1	SCREW SHC M10-1.5 X 75 G10.9
100	0F1170A	1	PLATE, BACKING WITH OIL COOLER	138	0D3743	1	SPRING, GOVERNOR IDLE
101	0E4997	1	GROUND WIRE CONNECTOR	139	0D3705	1	ASSEMBLY, GOVERNOR ADJUSTER
102	0C3725B	1	FLYWHEEL ASSEMBLY				BRACKET
103	0C3031	1	FAN, NYLON	140	0C2993	1	SEAL, GOVERNOR SHAFT
104	0C3032	1	PLATE, FAN	142	045771	1	NUT HEX M8-1.25 G8
105	0A5992	2	WASHER SHAKEPROOF INT M8 SS	143	0D6147	7	SCREW HHFC M6-1.0 X 10mm
106	051754	2	SCREW HHC M8-1.25 X 12 G8.8	144	0E8152	1	O-RING 0.49" I.D. X 0.07" THICK
107	0C3033	1	WASHER, 25mm I.D.				
108	0C3034	1	NUT,HEX M24				
109	0C8549A	1	SNORKEL, AIR INTAKE				



# Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators 7 kW Generator - Drawing No. 0D3504-D



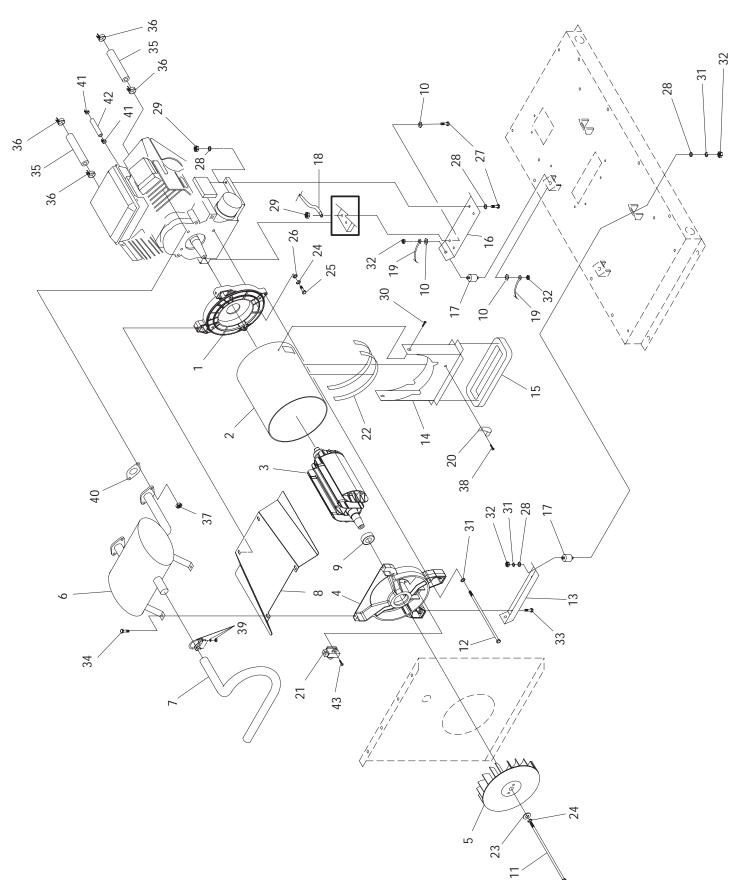


# Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators 7 kW Generator - Drawing No. 0D3504-D

1 0068934 1 ADAPTER, ENGINE 2 0058934H 1 STATOR 3 005894H 1 ROTOR 4 0056945A 1 CARRIER, REAR BEARING 5 006896 1 FAN, 8' CURVED BLADE 6 005859 1 MUFFLER 7 003220 1 TAIL PIPE, MUFFLER 8 005860 1 PANEL, MUFFLER BASE 9 031971 1 BEARING #6052-PR-C3 11 0053168 3 516 SPECIAL LWASH 11 06647 1 BOLT FROTOR HICS 516*-24 X 13-12* G5 12 001847 4 BOLT FATTOR HICS 516*-24 X 13-12* G5 13 007038C 1 BRACKET, ALTERNATOR MOUNTING 14 001647 1 BOLT FATTOR HICS 516*-24 X 13-12* G5 16 007038B 1 BRACKET, ENGINE MOUNTING 17 007758 1 ROMAN AND AND AND AND AND AND AND AND AND A	ITEM	PART NO.	QTY.	DESCRIPTION
2 003939H 1 STATOR 9 OCR906 1 FAR POTOR PAINT STATOR PAINT STAT	1	006934	1	ADAPTER ENGINE
39         COS993H         1         RARRIER, REAR BEARING           5         CO6096         1         FAN, 8° CURVED BLADE           6         CO5993         1         MUFFLER           7         CO3220         1         TAIL PIPE, MUFFLER           8         CO8890         1         PANEL, MUFFLER BASE           9         031971         1         BEARING 9205-29RS-C3           10         CO2188         3         516 SPECIAL LIVESH           11         065147         1         BOLT ROTOR HHCS \$15°-34 X 13-12° G5           12         OD1847         4         BOLT STOTOR HHCS \$48°-25 X 306mm           13         OC70380         1         BRACKET, ALTERNATOR MOUNTING           14         OD1647         1         DUCT, ALTERNATOR AIR           15         OC2568         1         GASKET, ALTERNATOR AIR           16         OC70388         1         BRACKET, ENGINE MOUNTING           17         OC758         4         RUBBER MOUNT           18         O388000AEO         1         CABILE, 86 40° BLACK BATTERY           20         O82117C         1         CARILE, STAN STRAP 298 X38           21         O66386         1.8 FTT				
4         OC6043A         1         CARRIER, REAR BEARING           5         OC8066         1         FAN, 8" CURVED BLADE           6         OC9593         1         MUFFLER           7         OD3220         1         TAL, PIPE, MUFFLER           8         OC8860         1         PANEL, MUFFLER BASE           9         0.31971         1         BEARING #8205-29S-C3           10         OC3168         3         516 SPECIAL LWASH           11         085147         1         BOLT ROTOR HHCS MR-125 x 305mm           12         OD1847         4         BOLT STOTOR HHCS MR-125 x 305mm           13         OC7038C         1         BRACKET, RUTHOS MR-125 x 305mm           14         OD1647         1         DUCT, ALTERNATOR AIR DUCT           15         OD2558         1         GASKET, ALTERNATOR AIR DUCT           16         OC7038B         1         BRACKET, ENDINE MOUNTING           17         OC7758         4         RUBBER MOUNT           18         O3808050AE 0         1         CABLE, #6 40" BLACK BATTERY           20         O821210         1         CALIP, JUNIX COAT, 625 ID           21         O66386         1         A				
5         CO8906         1         FAN.8° CURYED BLADE           6         CO5933         1         MUFFLER           7         D03220         1         TAIL PIPE. MUFFLER           8         CO5860         1         PANEL, MUFFLER BASE           9         031971         1         BEARING #305-2PS-C3           10         CO5168         3         576 SPECIAL LWASH           11         056147         1         BOLT STATOR HHOS MR-125 x 305mm           12         0D1847         4         BOLT STATOR HHOS MR-125 x 305mm           13         0C7038C         1         BRACKET, LETRINATOR AIR           15         0D2558         1         GASKET, ALTERNATOR AIR         DUCT           16         0C7038B         1         BRACKET, ENGINE MOUNTING           17         0C7758         4         RUBBER MOUNT           18         038805A0E0         1         CABLE, #6 40° BLACK BATTERY           20         0821210         1         CABLE, #6 40° BLACK BATTERY           21         066366         1         ASSEMBLY BRUSH HOLDER           22         02451         1         RETH STRAP 9/382 38           23         049451         1         W				
6         COSSSS         1         MUFFLER           7         D03220         1         TAL PIPE. MUFFLER           8         COSSSO         1         PANEL MUFFLER BASE           9         0.31971         1         BEARING 48026-295-C3           10         COSSSS         3         \$16 SPECIAL LWASH           11         0.5147         1         BOLT STATOR HHCS 1/6"-2/4 X 13-1/2" G5           12         0.01847         4         BOLT STATOR HHCS 1/6"-2/4 X 13-1/2" G5           13         0.070380         1         BRACKET, ENTANTOR AIR           14         0.01647         1         DUCT, ALTERNATOR AIR DUCT           15         0.02258         1         GASKET, ALTERNATOR AIR DUCT           16         0.07388         1         BRACKET, ENRINE MOUNTING           17         0.07758         4         RUBBER MOUNT           18         0.038050AED         1         CABLE, 16 40° BLACK BATTERY           20         0.0821210         1         CLIP-J JUNYL COAT, 625 ID           21         0.068386         1         ASSEMBLY BRUSH HOLDER           22         0.02417A         1         SERT PLAN TAGE STATES           23         0.49451         1 </td <td></td> <td></td> <td>1</td> <td></td>			1	
7			1	
8         0.28860         1         PANEL, MUFFLER BASE           9         0.31971         1         BEARING ROSC, 2RS-C3           10         0.63168         3         5/16 SPECIAL, L/WASH           11         0.65147         1         BOLT ROTOR HHCS 5/16*-24 X 13-1/2* GS           12         0.01847         4         BOLT STATOR HHCS 5/16*-24 X 13-1/2* GS           13         0.07038C         1         BRACKET, ALTERNATOR MOUNTING           14         0.01647         1         DUCT, ALTERNATOR AIR DUCT           15         0.02558         1         GASKET, ALTERNATOR AIR DUCT           16         0.07038         4         RUBBER MOUNT           17         0.07758         4         RUBBER MOUNT           18         0.38060AEO         1         CABLE, #6 49* BLACK BATTERY           19         0.02417A         1         EARTH STRAP 3/8X 3/8           20         0.82121C         1         CABLE, #6 49* BLACK BATTERY           21         0.68386         1         ASSEMBLY BRUSH HOLDER           22         0.02451         1.8 FT         TAPE ELEC UL, FOAM 1/8 X 1/2           23         0.049451         1.1         WASHER ILAT 3/61 Z/10           24				
9 031971 1 BEARING #2005_2RS.C3 10 03188 3 5/16 SPECIAL LWASH 11 056147 1 BOLT ROTOR HHCS 5/16*24 X 13-1/2* G5 10 101847 4 BOLT STATOR HHCS S/16*24 X 13-1/2* G5 10 101847 1 BOLT ROTOR HHCS MR-1.25 x 305mm 14 001647 1 DUCT, ALTERNATOR MOUNTING 15 002558 1 GASKET, ALTERNATOR AIR 16 007038B 1 BRACKET, ENGINE MOUNTING 17 007758 4 RUBBER MOUNTING 18 0388050AE0 1 GASKET, ALTERNATOR AIR DUCT 18 0388050AE0 1 CARLE, #6 40* BLACK BATTERY 19 002417A 1 EARTH STRAP 38X 3/8 10 082121C 1 CLIP-J VINYL COAT. 625 ID 21 066386 1 ASSEMBLY BRUSH HOLDER 22 029461 1 WASHER FLAT 3/8 ZHOZ 23 049461 1 WASHER FLAT 3/8 ZHOZ 24 022237 4 WASHER FLAT 3/8 ZHOZ 25 022511 4 BOLT HHC 3/8-16 X 1-1/4 G5 26 02211 4 BOLT HHC 3/8-16 X 1-1/4 G5 27 039287 4 WASHER FLAT 3/8 ZHOC 27 039287 4 WASHER FLAT 3/8 ZHOC 28 022455 12 WASHER FLAT 3/8 ZHOC 29 049820 4 WASHER FLAT 3/8 ZHOC 30 090388 3 SCREW HHC MS-1.25 X 45 G8.8 31 0290388 3 SCREW TAP MS-1.05 X 1-1/8 G5 32 022259 8 NUT HEX S/1-18 S-1-18 S-1-18 34 049031K 3 BAND, HOSE CLAMP 35.05 DIA. 35 009932 1 BELLOWS 36 057822 2 CLAMP HOSE #8.53 -1.00 37 040976 2 SCREW SHC MS-1-26 X 20 G12-9 38 002245 1 UBBLOWS 44 003024 1 UBBLE FLAT 3/8 ZHOC 44 003024 1 UBBLE FLAT 3/8 ZHOC 45 002273 1 BELLOWS 46 059934N 1 CLAMP 10-95 FRO JET SO J				
10				
11				
12 001847 4 BOLT STATOR HICKS M8-1.25 x 305mm 1 007038C 1 BRACKET, ALTERNATOR MOINTING 1 001647 1 DUCT, ALTERNATOR AIR 1 001647 1 DUCT, ALTERNATOR AIR 1 001647 1 DUCT, ALTERNATOR AIR 1 002558 1 GASKET, ALTERNATOR AIR DUCT 1 007038B 1 BRACKET, ENGINE MOUNTING 1 0080500AE0 1 CABLE, #6 40° BLACK BATTERY 1 002417A 1 EARTH STRAP 30% 30% 2 002121C 1 CLIP-J VINVL COAT. 625 ID 2 1 066386 1 ASSEMBLY BRUSH HOLDER 2 1 099451 1.8 FT TAPE ELEC UL FOAM 10 X 1/2 2 029451 1.8 FT TAPE ELEC UL FOAM 10 X 1/2 2 029237 4 WASHER LOCK 30% 2 022237 4 WASHER LOCK 30% 2 022231 4 WASHER LAT 308 ZINC 2 022311 4 WASHER FLAT 308 ZINC 2 022311 4 WASHER FLAT 308 ZINC 2 022415 12 WASHER FLAT 308 ZINC 2 022415 12 WASHER FLAT 516 ZINC 2 039820 4 NUT LOCK HEX MB-1.25 NYL INSRT 3 00038B 3 SCREW THA MB-1.05 X 12 BP 3 049820 4 NUT LOCK HEX MB-1.25 NYL INSRT 3 00038B 3 SCREW THA MB-1.05 X 12 BP 3 049820 4 NUT LOCK HEX MB-1.25 NYL INSRT 3 000388 3 SCREW THA MB-1.05 X 12 BP 3 049820 4 NUT LOCK HEX MB-1.25 NYL INSRT 3 000388 3 SCREW THA MB-1.05 X 12 BP 3 049820 4 NUT LOCK HEX MB-1.25 NYL INSRT 3 000388 3 SCREW THA MB-1.05 X 12 BP 3 049820 4 NUT LOCK HEX MB-1.25 NYL INSRT 4 000388 3 SCREW THA MB-1.05 X 12 BP 4 048031K 3 BAND, HOSE CLAMP 95.05 DIA. 4 048031K 3 BAND, HOSE CLAMP 10.05 ER 95.3 - 1.00 4 048031K 3 BAND, HOSE CLAMP 10.05 ER 95.3 - 1.00 4 048031K 3 BAND, HOSE CLAMP 10.05 ER 95.3 - 1.00 4 048031K 3 BAND, HOSE CLAMP 10.05 ER 95.3 - 1.00 4 048031K 3 BAND, HOSE CLAMP 10.05 ER 95.3 - 1.00 4 048031K 3 BAND, HOSE CLAMP 10.05 ER 95.3 - 1.00 4 048031K 3 BAND, HOSE CLAMP 10.05 ER 95.3 - 1.00 4 048031K 3 BAND, HOSE CLAMP 10.05 ER 95.3 - 1.00 4 04803 ER ENGINE AIR IN 10.05 ER 95.3 - 1.00 4 04803 ER ENGINE AIR IN 10.05				
13 0C7039C 1 BRACKET, ALTERNATOR MOUNTING 14 0D1647 1 DUCT. ALTERNATOR AIR DUCT 15 0D2558 1 GASKET, ALTERNATOR AIR DUCT 16 0C7038B 1 BRACKET, ENGINE MOUNTING 17 0C7758 4 RUBBER MOUNTING 18 0388050AE0 1 CABLE, 66 40° BLACK BATTERY 19 0C2417A 1 EARTH STRAP 39K 398 20 08212IC 1 CLIP, VINVL COAT. 625 ID 21 066386 1 ASSEMBLY BRUSH HOLDER 22 029451 1.8 FT TAPE ELEO UL FOAM 19K X 1/2 23 049451 1 WASHER FLAT 4,061D X 1,620D 24 022237 4 WASHER FLAT 4,061D X 1,620D 25 022511 4 BOLT HHC 38-16 X 1-1/4 G5 26 022131 4 WASHER FLAT 39K 31KC 27 039287 4 WASHER FLAT 39K 31KC 28 022145 12 WASHER FLAT 39K 21KC 29 049820 4 WILL FLOOK 19K ST				
14 0D1647 1 DUCT. ALTERNATOR AIR 15 0D2558 1 GASKET, ALTERNATOR AIR DUCT 16 0C7038B 1 BRACKET, ENGINE MOUNTING 17 0C7758 4 RUBBER MOUNT 18 0388050AE0 1 CABLE, 16 40 'BLACK BATTERY 19 0C2417A 1 EARTH STRAP 38X 38 20 0B2121C 1 CLIP. VINVL COAT. 625 ID 21 066386 1 ASSEMBLY BRUSH HOLDER 22 029451 1.8 FT TAPE ELEC UL FOAM 1/8 X 1/2 23 049451 1 WASHER FLAT 360B X 1.620D 24 022237 4 WASHER HCAT 406B X 1.620D 25 022511 4 BOLT HC 38-15 X 1-1/4 G5 26 022111 4 WASHER FLAT 361B X 1.620D 27 039287 4 WASHER FLAT 361B X 1.620D 28 02445 12 WASHER FLAT 361B X 1.620D 29 049820 4 NUT LOCK HEX MB-1.25 X 45 G8.8 30 090388 3 SCREW TAP MB-1.25 X 12 BP 31 022129 13 WASHER FLAT 5/16 ZINC 30 090388 3 SCREW TAP MB-1.25 X 12 BP 31 022129 13 WASHER LOCK MS-1/6 31 048031K 3 BAND, HOSE CLAMP 36.05 DIA. 31 049031K 3 BAND, HOSE CLAMP 36.05 DIA. 32 049039 1 SELLOWS 34 049031K 3 BAND, HOSE CLAMP 36.05 DIA. 35 0C5892 2 CLAMP HOSE #B. 53 -1.00 36 057822 2 CLAMP HOSE #B. 53 -1.00 37 040976 2 SCREW TAP THE 3/2 X 20 G12.9 38 0C2824 1 SCREW TAP #10-32 X 20 G12.9 39 0C5145 1 U-BOLT STEEL 41 0C6969 1 STINGER, ENGINE AIR N. 12 ST W SADDLE 44 0C3024 1 SCREW TAP #10-32 X 20 G12.9 45 0C2273 1 TUBE, 1.26 YOL S 20 G12.9 46 055334N 1 CLAMP 41.25 FT HOSE TIS IN Z 1.1 X 2.8 IZ 47 074996 4 SCREW TAP THE 3/4 Z 1.2 ST LONG 48 0C3136A 2 KNOB, AIR THE AIR THE AIR TO A CABLER 48 0C5136A 2 KNOB, AIR CLEANER 49 0C74996 4 SCREW TAP THE 3/4 Z 1.2 ST LONG 40 0F4096 4 SCREW TAP THE 3/4 Z 1.2 ST LONG 41 0C6969 1 STINGER, ENGINE AIR N 42 0C1273 1 TUBE, 1.26 YOL S 20 G2.8 X 12.12 S' LONG 43 0C4127 1 ELEMENT, AIR CLEANER 44 0C3186A 2 KNOB, AIR CLEANER 45 0C2473 4 WASHER FLAT 1/4 ZINC 56 0C2473 4 WASHER FLAT 1/4 ZINC 57 0C4290 1 GASKET, EXPAIL 58 0C42473 4 WASHER FLAT 1/4 ZINC 59 0C4290 1 GASKET, EXPAIL 59 0C4290 1 GASKET, EXPAIL 50 0C4290 1 GASKET, EXPAIL 50 0C4290 1 GASKET, EXPAIL 51 0C4662 6 SCREW HITH MS-1.2 X 20 BP				
15         0D2558         1         GASKET, ALTERNATOR AIR DUCT           16         0C7038B         1         BRACKET, ENGINE MOUNTING           17         0C7758         4         RUBBER MOUNT           18         038060AE0         1         CABLE, #6 40" BLACK BATTERY           19         0C2417A         1         CLP-J VINYL COAT. 625 ID           20         082121C         1         CLP-J VINYL COAT. 625 ID           21         066386         1         ASSEMBLY BRUSH HOLDER           22         029451         1.8 FT         TAPE ELEC UL FOAM 1/8 X 1/2           23         049451         1         WASHER FLAT 4/60ID X 1.620D           24         022237         4         WASHER FLAT 5/6 ZINC           25         022511         4         BOLT HHC 3/8-18 X 1-1/4 G5           26         022131         4         WASHER FLAT 5/6 ZINC           27         039287         4         SCREW HHC MB-1.25 X 5 G8.8           28         022145         12         WASHER FLAT 5/6 ZINC           29         049820         4         NUT LOCK HEX MB-1.26 NIX LINST           30         02938         3         SCREW TAP M6-1.0X12 BP           31         02219				
16         CC7038B         1         BRACKET, ENGINE MOUNTING           17         OC7758         4         RUBBER MOUNT           18         0388050AE0         1         CABLE, #6 40" BLACK BATTERY           20         082121C         1         CALIE, #6 40" BLACK BATTERY           21         066386         1         ASSEMBLY BRUSH HOLDER           22         029451         1.8 FT         TAPE ELEC UL FOAM 1/8 X 1/2           23         049451         1         WASHER FLAT 4/6810 X 1/2           24         022237         4         WASHER FLAT 6/8 0           25         022511         4         BOLT HAC 3/8-18 X 1-1/4 G5           26         022131         4         WASHER FLAT 5/8 2/1NC           27         039287         4         SCREW HHC MB-1.25 X 45 G8.8           28         022145         12         WASHER FLAT 5/16 Z1NC           29         049820         4         NUT LOCK HEX MB-1.25 NYL INSRT           30         090388         3         SCREW TAP M6-1.0X12 BP           31         022129         13         WASHER LOCK MB-5/16           32         022259         8         NUT HEX 5/16-18 STEEL           33         056037			1	
17			1	
18         0388050AE0         1         CABLE, #6 40* BLACK BATTERY           19         0C2417A         1         EARTH STRAP 30X 3/8           20         082121C         1         CLIP-J VINYL COAT. 625 ID           21         066386         1         ASSEMBLY BRUSH HOLDER           22         029451         1.8 FT         TAPE ELEC UL FOAM 1/8 X 1/2           23         049451         1         WASHER FLAT. 406ID X 1.620D           24         022237         4         WASHER LOCK. 3/8           25         022511         4         BOLT HHG 3/8-16 X 1-1/4 G5           26         022131         4         WASHER FLAT 3/8 ZINC           27         039287         4         SCREW HHC M8-1.25 X 45 G8.8           28         022145         12         WASHER FLAT 5/16 ZINC           29         049820         4         NUT LOCK HEX M8-1.25 NYL INSRT           30         099388         3         SCREW TAP M6-1.0X12 BP           31         022129         13         WASHER LOCK M8-5/16           32         022259         8         NUT HEX 3/16-18 STEEL           33         056037         2         SCREW TAP THE 3/8-16 X 34* BP           34         048031K				,
19				CABLE, #6 40" BLACK BATTERY
20				·
21         066386         1         ASSEMBLY BRUSH HOLDER           22         029451         1.8 FT         TAPE ELEC UL FOAM 1/8 X 1/2           23         049451         1         WASHER LAT. 406ID X 1.620D           24         022237         4         WASHER LOCK 3/8           25         022511         4         BOLT HHC 3/8-16 X 1-1/4 G5           26         022131         4         WASHER FLAT 3/8 ZINC           27         039287         4         SCREW HHC M8-1.25 X 45 G8.8           28         022145         12         WASHER FLAT 5/16 ZINC           29         049820         4         NUT LOCK HEX M8-1.25 NYL INSRT           30         090388         3         SCREW TAP M6-1.0X12 BP           31         022129         13         WASHER LOCK M8-516           32         022259         8         NUT HEX 5/16-18 STEEL           33         059637         2         SCREW TAP TITE 3/8-16'S 3/4' BP           34         048031K         3         BAND HOSE CLAMP 35.05 DIA.           35         059592         1         BELLOWS           36         057622         2         CLAMP HOSE #8.53 - 1.00           37         040976         2				
22         029451         1.8 FT         TAPE ELEC UL FOAM 1/8 X 1/2           23         049451         1         WASHER LAT. 406ID X 1.620D           24         022237         4         WASHER LOCK 3/8           25         022511         4         BOLT HHC 3/8-16 X 1-1/4 G5           26         022131         4         WASHER LAT 3/8 ZINC           27         039287         4         SCREW HHC MR 1-25 X 45 G.8           28         022145         12         WASHER FLAT 5/16 ZINC           29         049820         4         NUT LOCK HEX MB-1.25 NYL INSRT           30         090388         3         SCREW TAP ME1-0.0X12 BP           31         022129         13         WASHER LOCK M8-5/16           32         022259         8         NUT HEX 5/16-18 STEEL           33         059637         2         SCREW TAPTITE 3/8-16 XJ4* BP           34         048031K         3         BAND, HOSE CLAMP 35.05 DIA.           35         0.69592         1         BELLOWS           36         0.57822         2         CLAMP HOSE #8.53 - 1.00           37         0.40976         2         SCREW SHC M8-1.25 X 20 G12.9           38         0.02844         1				
23         049451         1         WASHER FLAT. 406ID X 1.620D           24         02237         4         WASHER LOCK 3/8           25         022511         4         BOLT HHC 3/8-16 X 1-1/4 G5           26         022131         4         WASHER FLAT 3/8 ZINC           27         039287         4         SCREW HHC M8-1.25 X 45 G8.8           28         022145         12         WASHER FLAT 5/16 ZINC           29         049820         4         NUT LOCK HEX M8-1.25 NYL INSRT           30         090388         3         SCREW TAP MG-1.0X12 BP           31         022129         13         WASHER LOCK M8-5/16           32         022259         8         NUT HEX 5/16-18 STEEL           33         059637         2         SCREW TAPTITE 3/8-16X 3/4" BP           34         048031K         3         BAND, HOSE CLAMP 35.05 DIA.           35         0C9592         1         BELLOWS           36         057822         2         CLAMP HOSE #8.53 -1.00           37         040976         2         SCREW SHC M8-1.25 X 9/16           39         025145         1         U-BOLT 5/16"-18 X 1.25" W/ SADDLE           40         090239         1				
24         022237         4         WASHER LOCK 3/8           25         022511         4         BOLT HHC 3/8-16 X 1-1/4 G5           26         022131         4         WASHER FLAT 3/8 ZINC           27         039287         4         SCREW HHC M8-1.25 X 45 G8.8           28         022145         12         WASHER FLAT 5/16 ZINC           29         049820         4         NUT LOCK HEX M8-1.25 NYL INSRT           30         090388         3         SCREW TAP M6-1.0X12 BP           31         022129         13         WASHER LOCK M8-5/16           32         022259         8         NUT HEX 5/16-18 STEEL           33         059637         2         SCREW TAPTITE 3/8-16X 3/4" BP           34         048031K         3         BAND, HOSE CLAMP 35.05 DIA.           35         0C9592         1         BELLOWS           36         057822         2         CLAMP HOSE #8.53 - 1.00           37         040976         2         SCREW TAPT #1-32 X 9/16           39         025145         1         U-BOLT 5/16-18 X 1.25" W/ SADDLE           40         090239         1         GASKET, EXHAUST           41         0C66989         1 <td< td=""><td></td><td></td><td></td><td></td></td<>				
25         022511         4         BOLT HHC 3/8-16 X 1-1/4 G5           26         022131         4         WASHER FLAT 3/2 SINC           27         039287         4         SCREW HHC M8-1.25 X 45 G8.8           28         022145         12         WASHER FLAT 5/16 ZINC           29         049820         4         NUT LOCK HEX M8-1.25 NYL INSRT           30         090388         3         SCREW TAP M6-1.0X12 BP           31         022129         13         WASHER LOCK M8-5/16           32         022259         8         NUT HEX 5/16-18 STEEL           33         059637         2         SCREW TAPTITE 3/8-16X 3/4* BP           34         048031K         3         BAND, HOSE CLAMP 35.05 DIA.           35         0C9592         1         BELLOWS           36         057822         2         CLAMP HOSE #8.53 - 1.00           37         040976         2         SCREW SHC M8-1.25 X 20 G12.9           38         0C2824         1         SCREW TAPTITE #10-32 X 9/16           40         090239         1         GASKET, EXHAUST           41         0C6989         1         STINGER, ENGINE AIR IN           42         0D1214         1				
26         022131         4         WASHER FLAT 3/8 ZINC           27         039287         4         SCREW HHC MB-1.25 X 45 G8.8           28         022145         12         WASHER FLAT 5/16 ZINC           29         049820         4         NUT LOCK HEX M8-1.25 NYL INSRT           30         090388         3         SCREW TAP M6-1.0X12 BP           31         022129         13         WASHER LOCK M8-5/16           32         022259         8         NUT HEX 5/16-18 STEEL           33         059637         2         SCREW TAPTITE 3/8-16X 3/4" BP           34         048031K         3         BAND, HOSE CLAMP 35.05 DIA.           35         0C9592         1         BELLOWS           36         057822         2         CLAMP HOSE #8.53 - 1.00           37         040976         2         SCREW SHO M8-1.25 X 20 G12.9           38         0C2824         1         SCREW HAR M8-1.25 X 20 G12.9           39         025145         1         U-BOLT 5/16"-18 X 1.25" W/ SADDLE           40         090239         1         GASKET, EXHAUST           41         0C6989         1         STINGER, ENGINE AIR IN           42         DD1214         1 <td></td> <td></td> <td></td> <td></td>				
27         039287         4         SCREW HHC M8-1.25 X 45 G8.8           28         022145         12         WASHER FLAT 5/16 ZINC           30         090388         3         SCREW TAP M6-1.0X12 BP           31         022129         13         WASHER LOCK M8-5/16           32         022259         8         NUT HEX 5/16-18 STEEL           33         059637         2         SCREW TAPTITE 3/8-16X 3/4" BP           34         048031K         3         BAND, HOSE CLAMP 35.05 DIA.           35         0C9592         1         BELLOWS           36         057822         2         CLAMP HOSE #8.53 - 1.00           37         040976         2         SCREW SHC M8-1.25 X 20 G12.9           38         0C2824         1         SCREW TAPR #10-32 X 9/16           39         025145         1         U-BOLT 5/16"-18 X 1.25" W SADDLE           40         090239         1         GASKET, EKHAUST           41         0C6989         1         STINGER, ENGINE AIR IN           42         0D1214         1         BASE, AIR CLEANER           44         0C3024         1         COVER, AIR CLEANER           44         0C3024         1         COVER				
28         022145         12         WASHER FLAT 5/16 ZINC           29         049820         4         NUT LOCK HEX M8-1.25 NYL INSRT           30         090388         3         SCREW TAP M6-1.0X12 BP           31         022129         13         WASHER LOCK M8-5/16           32         022259         8         NUT HEX 5/16-18 STEEL           33         059637         2         SCREW TAPTITE 3/8-16X 3/4" BP           34         048031K         3         BAND, HOSE CLAMP 35.05 DIA.           35         0C9592         1         BELLOWS           36         057822         2         CLAMP HOSE #8 .53 - 1.00           37         040976         2         SCREW SHC M8-1.25 X 20 G12.9           38         0C2824         1         SCREW TAPR #10-32 X 9/16           39         025145         1         U-BOLT 5/16"-18 X 1.25" W/ SADDLE           40         090239         1         GASKET, EXHAUST           41         0C6989         1         STINGER, ENGINE AIR IN           42         0D1214         1         BASE, AIR CLEANER           44         0C3024         1         COVER, AIR CLEANER           45         0D2273         1				
29         049820         4         NUT LOCK HEX M8-1.25 NYL INSRT           30         090388         3         SCREW TAP M6-1.0X12 BP           31         022129         13         WASHER LOCK M8-5/16           32         022259         8         NUT HEX 5/16-18 STEEL           33         059637         2         SCREW TAPTITE 3/8-16X 3/4" BP           34         048031K         3         BAND, HOSE CLAMP 35.05 DIA.           35         0C9592         1         BELLOWS           36         057822         2         CLAMP HOSE #8.53 - 1.00           37         040976         2         SCREW SHC M8-1.25 X 20 G12.9           38         0C2824         1         SCREW TAPR #10-32 X 9/16           39         025145         1         U-BOLT 5/16"-18 X 1.25" W/ SADDLE           40         090239         1         GASKET, EXHAUST           41         0C6989         1         STINGER, ENGINE AIR IN           42         0D1214         1         BASE, AIR CLEANER           43         0C8127         1         ELEMENT, AIR CLEANER           44         0C3024         1         COVER, AIR CLEANER NG/LP           45         0D2273         1         <				
30         090388         3         SCREW TAP M6-1.0X12 BP           31         022129         13         WASHER LOCK M8-5/16           32         022259         8         NUT HEX 5/16-18 STEEL           33         059637         2         SCREW TAPTITE 3/8-16X 3/4" BP           34         048031K         3         BAND, HOSE CLAMP 35.05 DIA.           35         0C9592         1         BELLOWS           36         057822         2         CLAMP HOSE #8.53 - 1.00           37         040976         2         SCREW SHC M8-1.25 X 20 G12.9           38         0C2824         1         SCREW TAPR #10-32 X 9/16           39         025145         1         U-BOLT 5/16"-18 X 1.25" W/ SADDLE           40         090239         1         GASKET, EXHAUST           41         0C6989         1         STINGER, ENGINE AIR IN           42         0D1214         1         BASE, AIR CLEANER           43         0C8127         1         ELEMENT, AIR CLEANER           44         0C3024         1         COVER, AIR CLEANER NG/LP           45         0D2273         1         TUBE, 1.25"O.D. x 20Ga. x 12.125" LONG           46         055934N         1				
31         022129         13         WASHER LOCK M8-5/16           32         022259         8         NUT HEX 5/16-18 STEEL           33         059637         2         SCREW TAPTITE 3/8-16X 3/4" BP           34         048031K         3         BAND, HOSE CLAMP 35.05 DIA.           35         0C9592         1         BELLOWS           36         057822         2         CLAMP HOSE #8.53 - 1.00           37         040976         2         SCREW SHC M8-1.25 X 20 G12.9           38         0C2824         1         SCREW TAPR #10-32 X 9/16           39         025145         1         U-BOLT 5/16"-18 X 1.25" W/ SADDLE           40         090239         1         GASKET, EXHAUST           41         0C6989         1         STINGER, ENGINE AIR IN           42         0D1214         1         BASE, AIR CLEANER           43         0C8127         1         ELEMENT, AIR CLEANER           44         0C3024         1         COVER, AIR CLEANER NG/LP           45         0D2273         1         TUBE, 1.25"O.D. x 20Ga. x 12.125" LONG           46         055934N         1         CLAMP VINYL 1.31 X .281 Z           47         074994         1.25				
32 022259 8 NUT HEX 5/16-18 STEEL 33 059637 2 SCREW TAPTITE 3/8-16X 3/4" BP 34 048031K 3 BAND, HOSE CLAMP 35.05 DIA. 35 0C9592 1 BELLOWS 36 057822 2 CLAMP HOSE #8 .53 - 1.00 37 040976 2 SCREW SHC M8-1.25 X 20 G12.9 38 0C2824 1 SCREW TAPR #10-32 X 9/16 39 025145 1 U-BOLT 5/16"-18 X 1.25" W/ SADDLE 40 090239 1 GASKET, EXHAUST 41 0C6989 1 STINGER, ENGINE AIR IN 42 0D1214 1 BASE, AIR CLEANER 43 0C8127 1 ELEMENT, AIR CLEANER 44 0C3024 1 COVER, AIR CLEANER NG/LP 45 0D2273 1 TUBE, 1.25"O.D. x 20Ga. x 12.125" LONG 46 055934N 1 CLAMP VINYL 1.31 X .281 Z 47 074994 1.25 FT HOSE 1/2ID PETROLEUM 48 0C5136A 2 KNOB, AIR CLEANER 49 074906 4 SCREW TAPTITE M6-1 X 20 BP 50 022473 4 WASHER FLAT 1/4 ZINC 51 0D4662 6 SCREW HHTT M8-1.2 X 20 BP 52 0C8290 1 GASKET, PANEL				
33				
34       048031K       3       BAND, HOSE CLAMP 35.05 DIA.         35       0C9592       1       BELLOWS         36       057822       2       CLAMP HOSE #8.53 - 1.00         37       040976       2       SCREW SHC M8-1.25 X 20 G12.9         38       0C2824       1       SCREW TAPR #10-32 X 9/16         39       025145       1       U-BOLT 5/16"-18 X 1.25" W/ SADDLE         40       090239       1       GASKET, EXHAUST         41       0C6989       1       STINGER, ENGINE AIR IN         42       0D1214       1       BASE, AIR CLEANER         43       0C8127       1       ELEMENT, AIR CLEANER         44       0C3024       1       COVER, AIR CLEANER NG/LP         45       0D2273       1       TUBE, 1.25" O.D. x 20Ga. x 12.125" LONG         46       055934N       1       CLAMP VINYL 1.31 X .281 Z         47       074994       1.25 FT       HOSE 1½1D PETROLEUM         48       0C5136A       2       KNOB, AIR CLEANER         49       074906       4       SCREW TAPTITE M6-1 X 20 BP         50       022473       4       WASHER FLAT 1/4 ZINC         51       0D4662       6 <td< td=""><td></td><td></td><td></td><td></td></td<>				
35         0C9592         1         BELLOWS           36         057822         2         CLAMP HOSE #8 .53 - 1.00           37         040976         2         SCREW SHC M8-1.25 X 20 G12.9           38         0C2824         1         SCREW TAPR #10-32 X 9/16           39         025145         1         U-BOLT 5/16"-18 X 1.25" W/ SADDLE           40         090239         1         GASKET, EXHAUST           41         0C6989         1         STINGER, ENGINE AIR IN           42         0D1214         1         BASE, AIR CLEANER           43         0C8127         1         ELEMENT, AIR CLEANER           44         0C3024         1         COVER, AIR CLEANER NG/LP           45         0D2273         1         TUBE, 1.25"O.D. x 20Ga. x 12.125" LONG           46         055934N         1         CLAMP VINYL 1.31 X .281 Z           47         074994         1.25 FT         HOSE 1\2ID PETROLEUM           48         0C5136A         2         KNOB, AIR CLEANER           49         074906         4         SCREW TAPTITE M6-1 X 20 BP           50         022473         4         WASHER FLAT 1/4 ZINC           51         0D4662         6				
36       057822       2       CLAMP HOSE #8.53 - 1.00         37       040976       2       SCREW SHC M8-1.25 X 20 G12.9         38       0C2824       1       SCREW TAPR #10-32 X 9/16         39       025145       1       U-BOLT 5/16"-18 X 1.25" W/ SADDLE         40       090239       1       GASKET, EXHAUST         41       0C6989       1       STINGER, ENGINE AIR IN         42       0D1214       1       BASE, AIR CLEANER         43       0C8127       1       ELEMENT, AIR CLEANER         44       0C3024       1       COVER, AIR CLEANER NG/LP         45       0D2273       1       TUBE, 1.25"O.D. x 20Ga. x 12.125" LONG         46       055934N       1       CLAMP VINYL 1.31 X .281 Z         47       074994       1.25 FT       HOSE 1/2ID PETROLEUM         48       0C5136A       2       KNOB, AIR CLEANER         49       074906       4       SCREW TAPTITE M6-1 X 20 BP         50       022473       4       WASHER FLAT 1/4 ZINC         51       0D4662       6       SCREW HHTT M8-1.2 X 20 BP         52       0C8290       1       GASKET, PANEL				,
37 040976 2 SCREW SHC M8-1.25 X 20 G12.9 38 0C2824 1 SCREW TAPR #10-32 X 9/16 39 025145 1 U-BOLT 5/16"-18 X 1.25" W/ SADDLE 40 090239 1 GASKET, EXHAUST 41 0C6989 1 STINGER, ENGINE AIR IN 42 0D1214 1 BASE, AIR CLEANER 43 0C8127 1 ELEMENT, AIR CLEANER 44 0C3024 1 COVER, AIR CLEANER NG/LP 45 0D2273 1 TUBE, 1.25"O.D. x 20Ga. x 12.125" LONG 46 055934N 1 CLAMP VINYL 1.31 X .281 Z 47 074994 1.25 FT HOSE 1/2ID PETROLEUM 48 0C5136A 2 KNOB, AIR CLEANER 49 074906 4 SCREW TAPTITE M6-1 X 20 BP 50 022473 4 WASHER FLAT 1/4 ZINC 51 0D4662 6 SCREW HHTT M8-1.2 X 20 BP 52 0C8290 1 GASKET, PANEL				
38       OC2824       1       SCREW TAPR #10-32 X 9/16         39       025145       1       U-BOLT 5/16"-18 X 1.25" W/ SADDLE         40       090239       1       GASKET, EXHAUST         41       0C6989       1       STINGER, ENGINE AIR IN         42       0D1214       1       BASE, AIR CLEANER         43       0C8127       1       ELEMENT, AIR CLEANER         44       0C3024       1       COVER, AIR CLEANER NG/LP         45       0D2273       1       TUBE, 1.25"O.D. x 20Ga. x 12.125" LONG         46       055934N       1       CLAMP VINYL 1.31 X .281 Z         47       074994       1.25 FT       HOSE 1\2ID PETROLEUM         48       0C5136A       2       KNOB, AIR CLEANER         49       074906       4       SCREW TAPTITE M6-1 X 20 BP         50       022473       4       WASHER FLAT 1/4 ZINC         51       0D4662       6       SCREW HHTT M8-1.2 X 20 BP         52       0C8290       1       GASKET, PANEL				
39       025145       1       U-BOLT 5/16"-18 X 1.25" W/ SADDLE         40       090239       1       GASKET, EXHAUST         41       0C6989       1       STINGER, ENGINE AIR IN         42       0D1214       1       BASE, AIR CLEANER         43       0C8127       1       ELEMENT, AIR CLEANER         44       0C3024       1       COVER, AIR CLEANER NG/LP         45       0D2273       1       TUBE, 1.25"O.D. x 20Ga. x 12.125" LONG         46       055934N       1       CLAMP VINYL 1.31 X .281 Z         47       074994       1.25 FT       HOSE 1\2ID PETROLEUM         48       0C5136A       2       KNOB, AIR CLEANER         49       074906       4       SCREW TAPTITE M6-1 X 20 BP         50       022473       4       WASHER FLAT 1/4 ZINC         51       0D4662       6       SCREW HHTT M8-1.2 X 20 BP         52       0C8290       1       GASKET, PANEL				
40       090239       1       GASKET, EXHAUST         41       0C6989       1       STINGER, ENGINE AIR IN         42       0D1214       1       BASE, AIR CLEANER         43       0C8127       1       ELEMENT, AIR CLEANER         44       0C3024       1       COVER, AIR CLEANER NG/LP         45       0D2273       1       TUBE, 1.25"O.D. x 20Ga. x 12.125" LONG         46       055934N       1       CLAMP VINYL 1.31 X .281 Z         47       074994       1.25 FT       HOSE 1\2ID PETROLEUM         48       0C5136A       2       KNOB, AIR CLEANER         49       074906       4       SCREW TAPTITE M6-1 X 20 BP         50       022473       4       WASHER FLAT 1/4 ZINC         51       0D4662       6       SCREW HHTT M8-1.2 X 20 BP         52       0C8290       1       GASKET, PANEL			_	
41       0C6989       1       STINGER, ENGINE AIR IN         42       0D1214       1       BASE, AIR CLEANER         43       0C8127       1       ELEMENT, AIR CLEANER         44       0C3024       1       COVER, AIR CLEANER NG/LP         45       0D2273       1       TUBE, 1.25"O.D. x 20Ga. x 12.125" LONG         46       055934N       1       CLAMP VINYL 1.31 X .281 Z         47       074994       1.25 FT       HOSE 1\2ID PETROLEUM         48       0C5136A       2       KNOB, AIR CLEANER         49       074906       4       SCREW TAPTITE M6-1 X 20 BP         50       022473       4       WASHER FLAT 1/4 ZINC         51       0D4662       6       SCREW HHTT M8-1.2 X 20 BP         52       0C8290       1       GASKET, PANEL			1	
42       0D1214       1       BASE, AIR CLEANER         43       0C8127       1       ELEMENT, AIR CLEANER         44       0C3024       1       COVER, AIR CLEANER NG/LP         45       0D2273       1       TUBE, 1.25"O.D. x 20Ga. x 12.125" LONG         46       055934N       1       CLAMP VINYL 1.31 X .281 Z         47       074994       1.25 FT       HOSE 1\2ID PETROLEUM         48       0C5136A       2       KNOB, AIR CLEANER         49       074906       4       SCREW TAPTITE M6-1 X 20 BP         50       022473       4       WASHER FLAT 1/4 ZINC         51       0D4662       6       SCREW HHTT M8-1.2 X 20 BP         52       0C8290       1       GASKET, PANEL			1	
43       0C8127       1       ELEMENT, AIR CLEANER         44       0C3024       1       COVER, AIR CLEANER NG/LP         45       0D2273       1       TUBE, 1.25"O.D. x 20Ga. x 12.125" LONG         46       055934N       1       CLAMP VINYL 1.31 X .281 Z         47       074994       1.25 FT       HOSE 1\2ID PETROLEUM         48       0C5136A       2       KNOB, AIR CLEANER         49       074906       4       SCREW TAPTITE M6-1 X 20 BP         50       022473       4       WASHER FLAT 1/4 ZINC         51       0D4662       6       SCREW HHTT M8-1.2 X 20 BP         52       0C8290       1       GASKET, PANEL			1	
44       0C3024       1       COVER, AIR CLEANER NG/LP         45       0D2273       1       TUBE, 1.25"O.D. x 20Ga. x 12.125" LONG         46       055934N       1       CLAMP VINYL 1.31 X .281 Z         47       074994       1.25 FT       HOSE 1\2ID PETROLEUM         48       0C5136A       2       KNOB, AIR CLEANER         49       074906       4       SCREW TAPTITE M6-1 X 20 BP         50       022473       4       WASHER FLAT 1/4 ZINC         51       0D4662       6       SCREW HHTT M8-1.2 X 20 BP         52       0C8290       1       GASKET, PANEL			1	,
45 0D2273 1 TUBE, 1.25"O.D. x 20Ga. x 12.125" LONG 46 055934N 1 CLAMP VINYL 1.31 X .281 Z 47 074994 1.25 FT HOSE 1\2ID PETROLEUM 48 0C5136A 2 KNOB, AIR CLEANER 49 074906 4 SCREW TAPTITE M6-1 X 20 BP 50 022473 4 WASHER FLAT 1/4 ZINC 51 0D4662 6 SCREW HHTT M8-1.2 X 20 BP 52 0C8290 1 GASKET, PANEL			1	,
46       055934N       1       CLAMP VINYL 1.31 X .281 Z         47       074994       1.25 FT       HOSE 1\2ID PETROLEUM         48       0C5136A       2       KNOB, AIR CLEANER         49       074906       4       SCREW TAPTITE M6-1 X 20 BP         50       022473       4       WASHER FLAT 1/4 ZINC         51       0D4662       6       SCREW HHTT M8-1.2 X 20 BP         52       0C8290       1       GASKET, PANEL			1	
47       074994       1.25 FT       HOSE 1\2ID PETROLEUM         48       0C5136A       2       KNOB, AIR CLEANER         49       074906       4       SCREW TAPTITE M6-1 X 20 BP         50       022473       4       WASHER FLAT 1/4 ZINC         51       0D4662       6       SCREW HHTT M8-1.2 X 20 BP         52       0C8290       1       GASKET, PANEL			1	
48       0C5136A       2       KNOB, AIR CLEANER         49       074906       4       SCREW TAPTITE M6-1 X 20 BP         50       022473       4       WASHER FLAT 1/4 ZINC         51       0D4662       6       SCREW HHTT M8-1.2 X 20 BP         52       0C8290       1       GASKET, PANEL				
49 074906 4 SCREW TAPTITE M6-1 X 20 BP 50 022473 4 WASHER FLAT 1/4 ZINC 51 0D4662 6 SCREW HHTT M8-1.2 X 20 BP 52 0C8290 1 GASKET, PANEL				
50 022473 4 WASHER FLAT 1/4 ZINC 51 0D4662 6 SCREW HHTT M8-1.2 X 20 BP 52 0C8290 1 GASKET, PANEL				•
51 0D4662 6 SCREW HHTT M8-1.2 X 20 BP 52 0C8290 1 GASKET, PANEL				
52 0C8290 1 GASKET, PANEL				



Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators 12 kW and 15 kW Generator - Drawing No. 0D3417-J



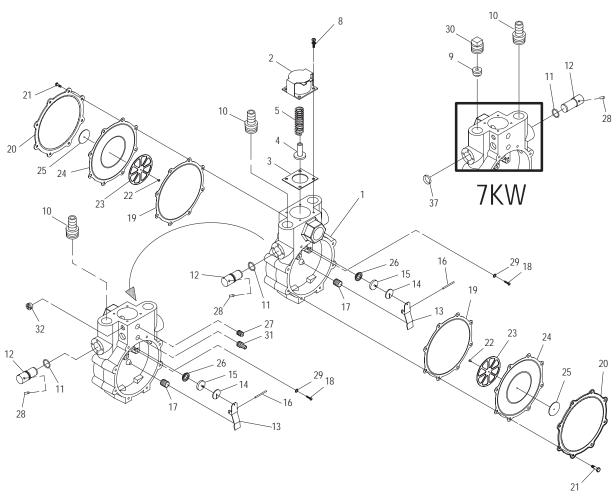


### Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators 12 kW and 15 kW Generator - Drawing No. 0D3417-J

ITEM	PART NO.	QTY.	DESCRIPTION
1	0C6934	1	ADAPTER, ENGINE
2	0C7930	i	STATOR 12KW
0	D2359		STATOR 13KW / 15KW
3	0C7944	1	ROTOR 12KW
	0D2356		ROTOR 13KW / 15KW
4	0C6043	1	CARRIER, REAR BEARING
5	0D2336	1	FAN, 12" CURVED BLADE
6	0D6634	1	MUFFLER
7	0D3220	1	TAIL PIPE, MUFFLER
8	0C8101	1	PANEL, MUFFLER BASE
9	056482	1	BEARING 1.1811-2.8346
10	0C3168	3	5/16 SPECIAL LOCK WASHER
11	0D1838	1	BOLT, HHCS 3/8"-24 x 15.50"
12	0D1846	4	BOLT, HHCS M8-1.25 x 345mm
13	0C7038	1	BRACKET, ALTERNATOR MOUNTING
14	0D1609	1	DUCT, ALTERNATOR AIR
15	0D2559	1	GASKET, ALTERNATOR AIR DUCT
16	0C7038A	1	BRACKET, ENGINE MOUNTING
17	0C7758	4	RUBBER MOUNT
18	0388050AD0	1	CABLE, #6 48" BLACK BATTERY
19	0C2417A	1	EARTH STRAP 3/8X 3/8
20	082121C	1	CLIP-J, VYNL COAT 0.625" ID
21	066386	1	ASSEMBLY BRUSH HOLDER
22	029451	2.6 FT	TAPE ELEC UL FOAM 1/8 X 1/2
23	049451	1	WASHER FLAT .406ID X 1.62OD
24	022237	5	WASHER LOCK 3/8
25	022511	4	SCREW HHC 3/8-16 X 1-1/4 G5
26	022131	4	WASHER FLAT 3/8 ZINC
27	051731	4	SCREW HHC M8-1.25 X 50 G8.8
28	022145	12	WASHER FLAT 5/16 ZINC
29	049820	4	NUT LOCK HEX M8-1.25 NYL INSERT
30	045756	2	SCREW TAPTITE M6-1.0X10 BP
31	022129	10	WASHER LOCK M8-5/16
32	022259	8	NUT HEX 5/16-18 STEEL
33	059637	2	SCREW TAPTITE 3/8-16 X 3/4 BP
34	0D4662	4	SCREW 5/16-18X3/4" HH THD ROLL
35	074994	3 FT	HOSE RES 1/2 LP GAS
36	057822	4	CLAMP HOSE #8 .53 - 1.00
37	0F0462	4	NUT HEX W/TOOTH WSHR M8-1.25
38	0C2824	1	SCREW TAP-R #10-32 x 9/16
39	025145	1	U-BOLT 5/16"-18 X 1.25" WITH SADDLE
40	0C4138	2	GASKET, EXHAUST PORT
41	048031C	2	CLAMP HOSE BAND 1/4"
42	030340	1.33 FT	HOSE 1/4 ID SAE 30R7
43	066849	2	SCREW HHTT M5-0.8 X 16



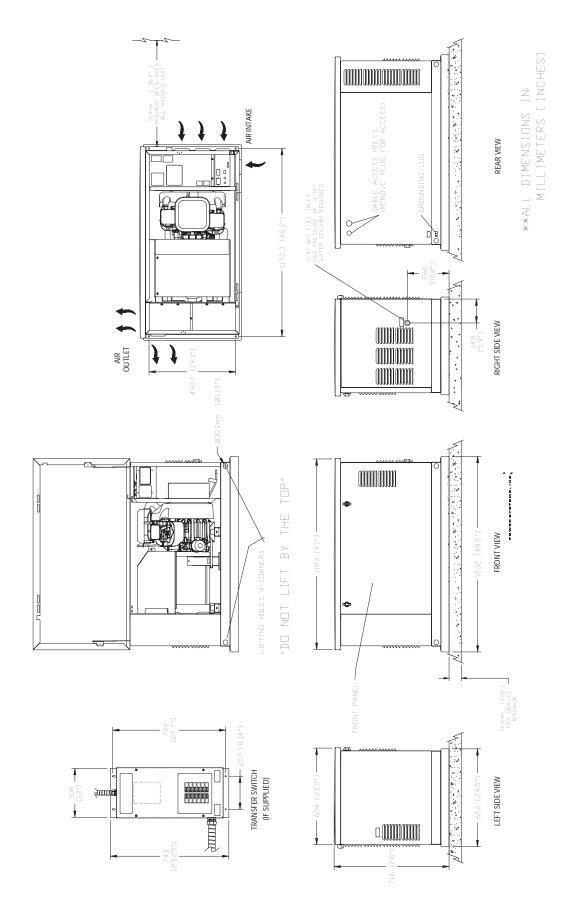
# Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators Gas Regulator - Drawing No. 0D8720-E



ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
1	0D5694	1	CASTING, TWIN REGULATOR	20	0C5762	2	COVER, TWIN REGULATOR
			HOUSING	21	045764	16	SCREW, TAPTITE M4X8 BP
2	0F3154	1	SOLENOID COIL, 12VDC	22	0C6731	2	RIVET, POP .118 X .125
3	0C4647	1	GASKET, SOLENOID	23	0C6067	2	SUPPORT, DIAPHRAGM
4	0D4166	1	PLUNGER, LP REGULATOR	24	0C4706	2	DIAPHRAGM, TWIN REGULATOR
			ASSEMBLY	25	0C6068	2	CAP, DIAPHRAGM SUPPORT
5	0C6070	1	SPRING-SOLENOID, PLUNGER	26	0C4643A	2	INLET, TWIN REGULATOR 11.11 DIA.
8	0F4795	4	SCREW PPHM SEMS M4-0.7 X 10	27	026073	1	PLUG, STANDARD PIPE 1/8" STEEL
9	0C5760E	1	JET, GN 410 ENGINE LP (7KW)				SQUARE HEAD
10	0C6606	2*	BARBED STRAIGHT 1/2NPT x 1/2		026073	2	PLUG, STANDARD PIPE 1/8" STEEL
11	097934	2*	O-RING, CHECK VALVE				SQUARE HEAD (7KW)
12	0C4645	2*	ADJUSTER SCREW, TWIN	28	0A4032	2*	PIN, LIMITED ADJUSTMENT
			REGULATOR	29	0D3308	4	WASHER, FLAT M3 X 10mm O.D.
13	0C5761	2	LEVER, REGULATOR	30	024310	1	PLUG, STANDARD PIPE 1/2" STEEL
14	0C5968	2	SUPPORT, INLET SEAL				SQUARE HEAD (7KW)
15	0C6066	2	•	31	028414A	1	BARBED STRAIGHT 1/8"NPT X 1/4"
16	0C5759	2	PIN, PIVOT ARM	32	0D5698A	1	JET IDLE PRIMER PHILLIPS HD
17	0C5764	2	SPRING, REGULATOR				(V-TWIN ONLY)
	0C5764A	2	•	37	0D3973	1	,
18			,	-		-	· · · · · · · · · · · · · · · · · ·
19		2	,				
8 9 10 11 12 13 14 15 16 17	0F4795 0C5760E 0C6606 097934 0C4645 0C5761 0C5968 0C6066 0C5759 0C5764	1 2* 2* 2* 2 2 2 2 2 2	SCREW PPHM SEMS M4-0.7 X 10 JET, GN 410 ENGINE LP (7KW) BARBED STRAIGHT 1/2NPT x 1/2 O-RING, CHECK VALVE ADJUSTER SCREW, TWIN REGULATOR LEVER, REGULATOR SUPPORT, INLET SEAL SEAL, INLET PIN, PIVOT ARM	27 28 29 30 31 32	026073 026073 0A4032 0D3308 024310 028414A 0D5698A	1 2 2*	PLUG, STANDARD PIPE 1/8" STEE SQUARE HEAD PLUG, STANDARD PIPE 1/8" STEE SQUARE HEAD (7KW) PIN, LIMITED ADJUSTMENT WASHER, FLAT M3 X 10mm O.D. PLUG, STANDARD PIPE 1/2" STEE SQUARE HEAD (7KW) BARBED STRAIGHT 1/8"NPT X 1/4" JET IDLE PRIMER PHILLIPS HD



### Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators Installation Drawing No. 0D3739-B



NOTES	Section
	Carrier

NOTES		Section 7 - Notes					
		Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators					
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Section	7 -	<b>Notes</b>
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# Carrier Air-cooled 7 kW, 12 kW and 15 kW Generators



PART NO. 0F4709 REV.A (01/12/05) CATALOG NO. 02AS-PA0 FORM ASPAS07-1PD PRINTED IN U.S.A.