

Installation Instructions & PARTS LIST

LLO5/OLL LLO7/OLM (A) Series Oil Fired Basement Furnace

SAFETY CONSIDERATIONS

Installation of fired heating units shall be in accordance with the regulation of authorities having jurisdiction and the CAN/CSA B139 or USA/NFPA No. 31-1983 installation code for oil burning equipment.

DO NOT operate furnace in a corrosive atmosphere containing chlorine, fluorine or any other damaging chemicals.

DO NOT store or use gasoline, or other flammable vapors and liquids in the vicinity of this or any other appliance.

The chimney is a very important part of your heating system. It must be the right size, properly constructed and in good condition. Chimney should be sized in accordance with the regulations of authorities having jurisdiction and the latest CAN/CSA B139 or USA/NFPA No. 31-1983 installation code for oil burning equipment.

Oil fired appliances shall be connected to flues having sufficient draft at all times to ensure safe and proper operation of the appliance. Before connecting the vent connector to a chimney, examine all parts and the passageway for condition and to make sure it is clean and clear, free of obstructions, and no air leaks in flues or at the cleanouts access.

Maximum capacity of individual tank used shall be 250 gallons and must be located at least 5' from the appliance. Local codes will govern the size of vents and fillers as the type of caps used. 1 $\frac{1}{4}$ " IPS and 2" IPS are generally accepted as minimum sizes for vent and fill pipes respectively. The burner oil line shall not be less than $\frac{3}{8}$ " O.D. copper tubing for runs 50' or less and $\frac{1}{2}$ " O.D. copper tubing for longer runs. A manual shut-off valve and an oil filter shall follow in sequence from tank to burner. Be sure that the oil line is clean before connecting to the burner. The oil line should be protected to eliminate any possible damage. Installation having the fuel oil tank below the burner level must employ a two pipe fuel supply system with an appropriate fuel oil pump (more than 8' lift use 2 stage pump and more than 16' an auxiliary pump).

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International Comfort Products Corporation (USA)
Lewisburg, TN USA 37091

WARNING

This furnace is NOT designed for use in mobile homes, trailers, or recreational vehicles. Such use could result in property damage, bodily injury and/or death.

1. Safety Labeling and Signal Words

Danger, Warning and Caution

The signal words **DANGER**, **WARNING** and **CAUTION** are used to identify levels of hazard seriousness. The signal word **DANGER** is only used on product labels to signify an immediate hazard. The signal words **WARNING** and **CAUTION** will be used on product labels and throughout this manual and other manuals that may apply to the product.

Signal Words

DANGER – Immediate hazards which WILL result in death or severe injury.

WARNING – Hazards or unsafe practices which COULD result in death or severe personal injury.

CAUTION – Hazards or unsafe practices which COULD result in personal injury or product or property damage.

Signal Words in Manuals

The signal word **WARNING** is used throughout this manual in the following manner:



The signal word **CAUTION** is used throughout this manual in the following manner:

CAUTION

Product Labeling

Signal words are used in combination with colors and/or pictures on product labels. Following are examples of product labels with explanations of the colors used.

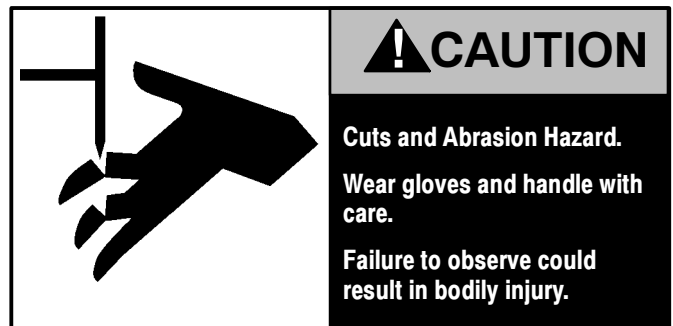
Danger Label

White lettering on a black background except the word **DANGER** which is white with a red background.



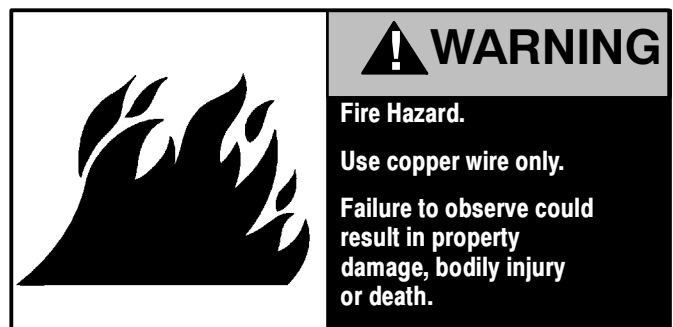
Caution Label

White lettering on a black background except the word **CAUTION** which is black with a yellow background.



Warning Label

White lettering on a black background except the word **WARNING** which is black with an orange background.



Burner No. _____ Model _____ Date of Installation _____

Service Telephone: Day _____ Night _____

Dealer's Name and Address _____

REPORT OF TEST

Date of Test _____

CO₂ _____ % Stack Net _____ Draft: at Stack _____ Over Fire

Firing Rate _____ GPH/US Smoke No. _____

Note _____ Test Made By _____

2. Safe Installation Requirements

WARNING

Installation or repairs made by unqualified persons can result in hazards to you and others. Installation **MUST** conform with local codes or, in the absence of local codes, with codes of the country having jurisdiction.

The information contained in this manual is intended for use by a qualified service technician familiar with safety procedures and equipped with the proper tools and test instruments.

Failure to carefully read and follow all instructions in this manual can result in furnace malfunction, property damage, personal injury and/or death.

NOTE: It is the personal responsibility and obligation of the customer to contact a qualified installer to ensure that the installation is adequate and conforms to governing codes and ordinances.

WARNING

The furnace must be installed in a level position, never where it will slope to the front.

If the furnace were installed in that position, oil would drain into the furnace vestibule and create a fire hazard, instead of draining properly into the combustion chamber.

- This furnace is **NOT** approved for installation in mobile homes, trailers or recreation vehicles.
- You must have a sufficient supply of fresh air for combustion and ventilation to the area in which the furnace is located.
- Do **NOT** use this furnace as a construction heater or to heat a building that is under construction.
- Use only the Type of fuel oil approved for this furnace (see **Rating Plate** on unit). Overfiring will result in failure of heat exchanger and cause dangerous operation.
- Visually check all oil line joints for signs of wetness which would indicate a leak.

- Connect furnace to a sidewall terminal or chimney liner.
- The “*Check and Adjustments*” starting on page 7 are vital to the proper and safe operation of the heating system. Take the time to be sure they are all done.
- Follow the rules of the NFPA Pamphlet No. 31 or local codes for locating and installing the oil storage tank.
- Follow a regular service and maintenance schedule for efficient and safe operation.
- Before servicing, allow furnace to cool. Always shut off electricity and fuel to furnace when servicing. This will prevent electrical shock or burns.
- Seal supply and return air ducts.
- The vent system **MUST** be checked to determine that it is the correct type and size.
- Install correct filter type and size.
- Unit **MUST** be installed so electrical components are protected from direct contact with water.

Safety Rules

Your unit is built to provide many years of safe and dependable service providing it is properly installed and maintained. However, abuse and/or improper use can shorten the life of the unit and create hazards for you, the owner.

- A. The U.S. Consumer Product Safety Commission recommends that users of oil-burning appliances install carbon monoxide detectors. There can be various sources of carbon monoxide in a building or dwelling. The sources could be gas-fired clothes dryers, gas cooking stoves, water heaters, furnaces, gas-fired fireplaces, wood fireplaces, and several other items. Carbon monoxide can cause serious bodily injury and/or death. Therefore, to help alert people of potentially dangerous carbon monoxide levels, you should have carbon monoxide detectors listed by a nationally recognized agency (e.g. Underwriters Laboratories or International Approval Services) installed and maintained in the building or dwelling (see Note).

- B. There can be numerous sources of fire or smoke in a building or dwelling. Fire or smoke can cause serious bodily injury, death, and/or property damage. Therefore, in order to alert people of potentially dangerous fire or smoke, you should have fire and smoke detectors listed by Underwriters Laboratories installed and maintained in the building or dwelling (see Note below).

Note: The manufacturer of your furnace does not test any detectors and makes no representations regarding any brand or type of detector.

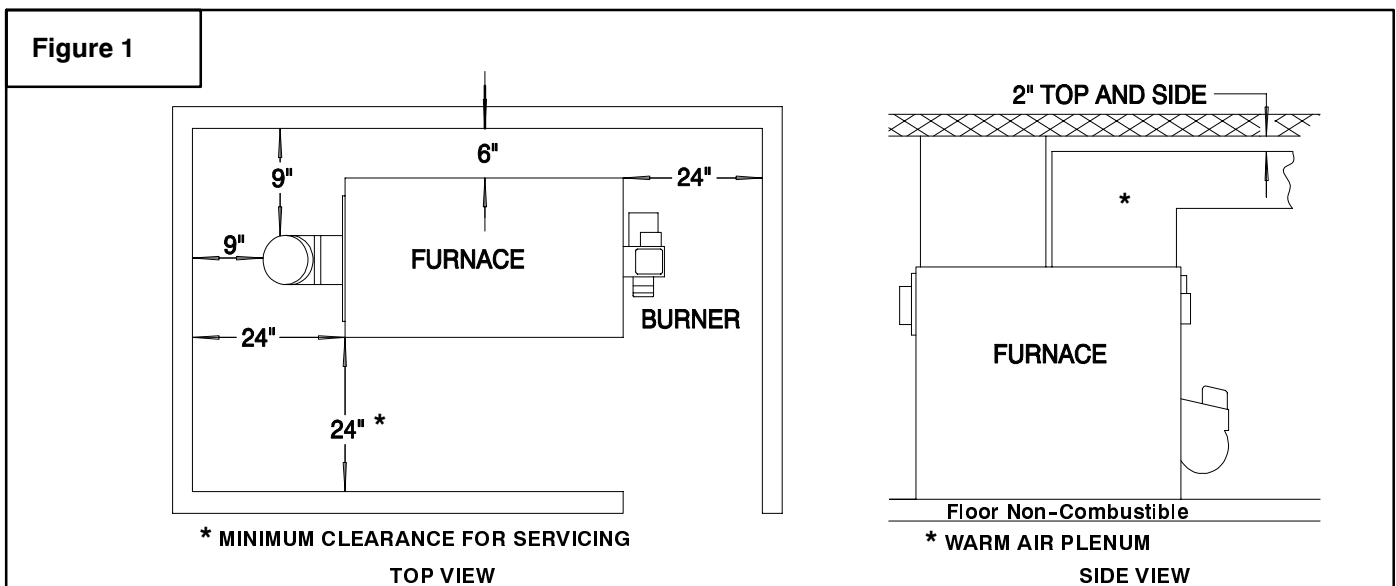
- C. To ensure safe and efficient operation of your unit, you should do the the following:

1. **Thoroughly read this manual and labels on the unit.** This will help you understand how your unit operates and the hazards involved with oil.
2. **Do not use this unit if any part has been under water.** Immediately call a qualified service technician to inspect the unit and to replace any part of the control system and any oil control which has been under water.
3. **Never obstruct the vent grilles, or any ducts that provide air to the unit.** Air must be provided for proper combustion and ventilation of flue gases. Carbon monoxide or "CO" is a colorless and odorless gas produced when fuel is not burned completely or when the flame does not receive sufficient oxygen.

3. Locating the Furnace

FURNACE INSTALLATION CLEARANCE FROM COMBUSTIBLE MATERIALS			
Plenum - Top & Sides	2"	Flue Pipe	9"
Front Panel	24"	Sides - One Side - Other Side	6"
Rear	24"		24"
NON COMBUSTIBLE FLOOR			

Figure 1



4. Installation

Combustion and Ventilation Air

Furnaces require ventilation openings to provide sufficient air for proper combustion and ventilation of flue gases. All ducts or openings for supplying combustion and ventilation air must comply with oil burning equipment NFPA No. 31 (or current edition) and applicable provisions of local building codes.

When sizing grille or louver, use the free area of opening. If free area is not marked on grille or louver, assume 20% free area for wood and 60% for metal.

A confined space is defined as an area with less than 50 cubic feet per 1,000 BTU/H input rating for all fuel burning appliances installed in area.

For a confined space, one opening must be within 12" of the floor, and the second opening within 12" of the ceiling. Minimum free area required for each opening:

- Horizontal ducts require one square inch per 2000 BTU/H.
- Vertical ducts or opening to outside require one square inch per 4000 BTU/H.

Unconfined space is defined as an area having a minimum volume of 50 cubic feet per 1000 BTU/H total input rating for all fuel burning appliances in area.

1. Adjoining rooms can be considered part of an unconfined area if there are no doors between rooms, (homes with tight construction may not have adequate air infiltration for proper combustion and ventilation of flue gases. Most homes will usually require additional air).

2. Duct or ventilation opening in an unconfined space requires one square inch of free area per 4,000 BTU/H of total input rating for all appliances in area. (The interior end of the air intake must be at a maximum of one foot above ground level and clear of any obstruction and exterior end must be screened with screen with no less than $\frac{1}{4}$ " mesh).

Chimney and Vent Pipe Connection

The chimney is a very important part of your heating system. It must be the right size, properly constructed and in good condition. The chimney should supply a draft of at least 0.04" of water.

The chimney should have a minimum height of 15' and have nominal flue area dimensions of 8" x 8", or 6" round for an input of 0.60 GAL/H to 1.35 GAL/H. If you are more than 2,000 ft. above sea level, add 3' to chimney heights. Above 5,000', add 5'.

Before connecting the vent connector to a chimney, examine all parts and the passage way for condition and to make sure it is clear, free of obstructions and no air leaks through cracks in flues or at the cleanouts access.

Rebuild a faulty chimney: A new steel liner or a prefabricated chimney may be a solution.

Vent Pipe and Draft Regulator

- ◆ Use vent pipe same size as the furnace vent outlet.
- ◆ Keep piping as short and direct as you can.
- ◆ Use L vent pipe with ventilated thimble if vent pipe passes through an interior wall.
- ◆ Slope horizontal run upward to chimney at least 1" for every 4' of pipe.
- ◆ Horizontal run should not be longer than $\frac{1}{2}$ " of the chimney height NEVER over 10'.
- ◆ Install the draft regulator in a straight section as close to the furnace outlet as possible. Follow installation instructions from the draft regulator manufacturer (enclosed with the draft regulator).
- ◆ Adjust draft regulator to maintain -0.02" of water at the furnace vent outlet.

Oil Tanks and Lines

For indoor storage, each tank shall be 275 gallons or less and the total indoor storage shall be 550 gallons or less.

Check your local codes for the installation of the tank and accessories.

The burner oil line shall not be less than $\frac{3}{8}$ " O.D. copper tubing for 65' of runs or less, and $\frac{1}{2}$ " O.D. copper tubing for 100' of runs or less.

If the tank bottom is no more than 10' below the burner oil pump, you will have to use a two stage pump with two lines.

If the tank bottom is more than 10' below the burner oil pump, single stage pump with two lines can be used. (With two lines, the plug supplied with pump must be installed. Follow instructions supplied with the pump).

Follow the pump instructions to determine the size of tubing you need in relation of the lift, or the horizontal distance.

Burner Installation

Install the burner on the burner plate using gasket provided. No adjustment must be made to the burner mounting position.

⚠ WARNING

Fire and explosion hazard.

Use only approved heating type oil in this furnace.

DO NOT USE waste oil, used motor oil, gasoline or kerosene.

Electrical Wiring

Turn OFF electric power at fuse box or service panel before making any electrical connections and ensure a proper ground connection is made before connecting line voltage.

All electrical wiring must conform with local codes, ordinances and the National Electrical Code, NFPA No. 70-1990 or current edition.

Make all line voltage and ground connections with copper wires #14 AWG from a 15 AMP power supply circuit through the unit.

Burner Safety Control

This control has an electronic circuit and cad cell. Both parts and factory wired in the oil burner.

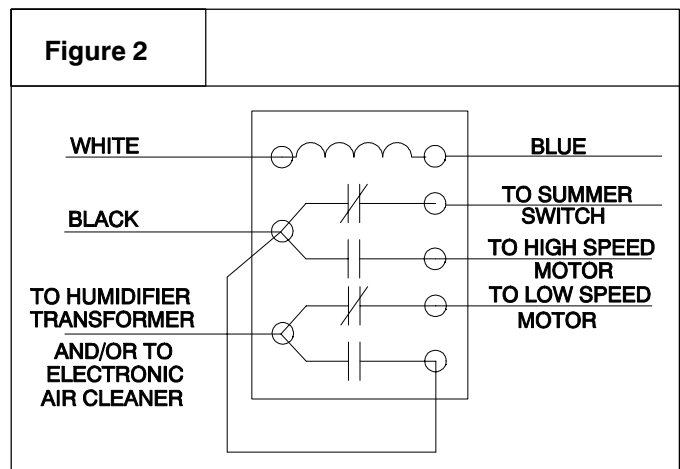
Thermostat

Thermostat location and the heat anticipator setting have an important effect on the operation of the unit. Follow instructions included with thermostat for correct mounting and setting.

Humidifier/Electronic Air Cleaner

Make connections for neutral and ground wires with connections to furnace at wiring shown in page 8 and connect the humidifier transformer or electronic air cleaner hot line at the fan relay.

The humidifier and/or the electronic air cleaner will be powered anytime the circulating air blower comes on.



Adding Air Conditioning

Replace heating only thermostat and cables with heating/cooling thermostat and 5 wire thermostat cable if required.

Connect from G, Rc, and Y, on thermostat subbase to G, Rc, and Y, on furnace low voltage terminal board. Rh, and W, must be connected to T, T, of the burner safety control. Connect wires from contactor on compressor unit to Y and C on furnace low voltage terminal board. (Follow all instructions with condensing unit and evaporator coil).

Summer Fan Operation

During the summer, continuous air circulation can be obtained by turning the manual fan switch from the "auto" position to the "on" position.

Fan and Limit Control

The setting of the fan control will depend upon the particular house and heating installation. The "fan off" setting is factory set at 100° F. This setting should provide satisfactory operation for most installations. The "fan on" temperature is determined by the built-in differential setting of the control.

It is desirable to have the "fan off" setting low enough for extended blower operation. However, a "fan off" setting too low will circulate cool air. To alter the "fan off" setting, rotate the indicator to the desired position on the temperature scale.

The limit control is factory preset at 180° F. and should not be adjusted. A replacement limit control must be identical to that supplied as original equipment (See Parts List).

Ductwork and Filter

Design and install air distribution system to comply with Air Conditioning Contractors of America manuals or other approved methods that conform to local codes and good trade practices.

When furnace supply ducts carry air outside furnace area, seal return air duct to furnace casing and terminate duct outside furnace space.

The furnace is provided with one or two filters, either the disposable low velocity type or high velocity type. The size and type of filter supplied with the furnace will handle the airflow required. Filters can be replaced only with same type and size.

Operating the Furnace

Before starting the burner, be sure the fuel tank is adequately filled with clean oil. Use No. 1 or No. 2 heating oil (ASTM D396).

Follow instructions included with the burner, for adjustment, service and spare parts.

You may notice a slight odor the first time your furnace is operated, this will soon disappear. It is only the oil used on the parts during manufacturing.

CAUTION

Do NOT attempt to start the burner when excess oil has accumulated, when the furnace is full of vapor, or when the combustion chamber is very hot.

1. Set the thermostat to call for heat.
2. Open the shut-off valves in the oil supply line to the burner.
3. Close the line switch to start the burner. If the burner does not start immediately, reset the manual overload which is on the motor if so equipped, and the safety switch of the burner primary control.
4. Vent the fuel unit as soon as the burner motor starts rotating. To vent, attach a clear plastic hose over the vent plug.
5. Loosen the plug and catch the oil in an empty container.
6. Tighten the plug when all the air is purged.

Burner Troubleshooting

Follow instructions included with the burner.

Shutting Burner Off

1. Set the thermostat lower than room temperature or,
2. Turn off disconnect switch.

Shutting Burner Off For Summer

1. Turn off disconnect switch.
2. Close the valves in the suction line.

Checks and Adjustments

1. Operate the furnace long enough for flame to become steady (15 minutes or more).
2. Check the pump pressure. The pressure should be 100 pounds per square inch for Beckett burner and 145 pounds per inch for Riello burner.
3. Adjust stack draft between -0.02 & -0.025 " of water. (Follow instructions with the draft regulator).
4. Adjust the smoke at No. 1 spot on the smoke scale. (Maybe you will have to reduce or increase the air supply at the burner).
5. Insert the CO² Analyzer tube in vent pipe. The reading should be between 10¹/₂% - 14%.

Adjust Air Flow

Fan speed must be selected to give an air temperature rise of between 70° F. and 85° F. through the furnace.

Furnace Maintenance

The furnace and flue pipe should be cleaned once a year.

CAUTION

This furnace has a high efficiency ceramic fiber refractory combustion chamber. Does not require cleaning. If for any reason it becomes necessary to work in the area of the combustion chamber, use extreme care.

Remove cleanout panel and vent pipe from the back panel. Remove baffles of each pipe and vacuum these passages as far back as the cleaning tool reaches.

Replace the parts in reverse order after the passages are cleaned. Be careful not to damage the gasket.

Once a year, prior to the beginning of the heating season have your oil burner inspected by a qualified Service Technician.

1. Check firing head, replace nozzle with same size, angle and spray, re-adjust electrode setting and clean burner fan wheel.
2. Adjust the combustion following instructions under "checks and adjustments" in this manual.
3. Oil burner motor and blower motor with SAE #10W30 motor oil if motor has oil cup at both end. Before accessing blower motor, shut off electric power at fuse box or service panel.
4. Check air filter twice during the heating season and replace if dirty.
5. The blade of the blower wheel should be cleaned periodically.
6. The line oil filter cartridge should be replaced every year to avoid contamination of the fuel unit.

Preventive Maintenance

Before calling for service, first check the following.

- There is oil in the tank.
- Valves in suction line are open.
- Thermostat is set above room temperature.
- Main line switch is "on" and fuses are not blown.

Reset the manual overload on the burner motor, if it is so equipped and the safety switch on the burner primary control ONE TIME ONLY and if unit does not want to start, call a qualified Service Technician.

For ordering replacement parts, you will have to specify the furnace model number and type of burner.

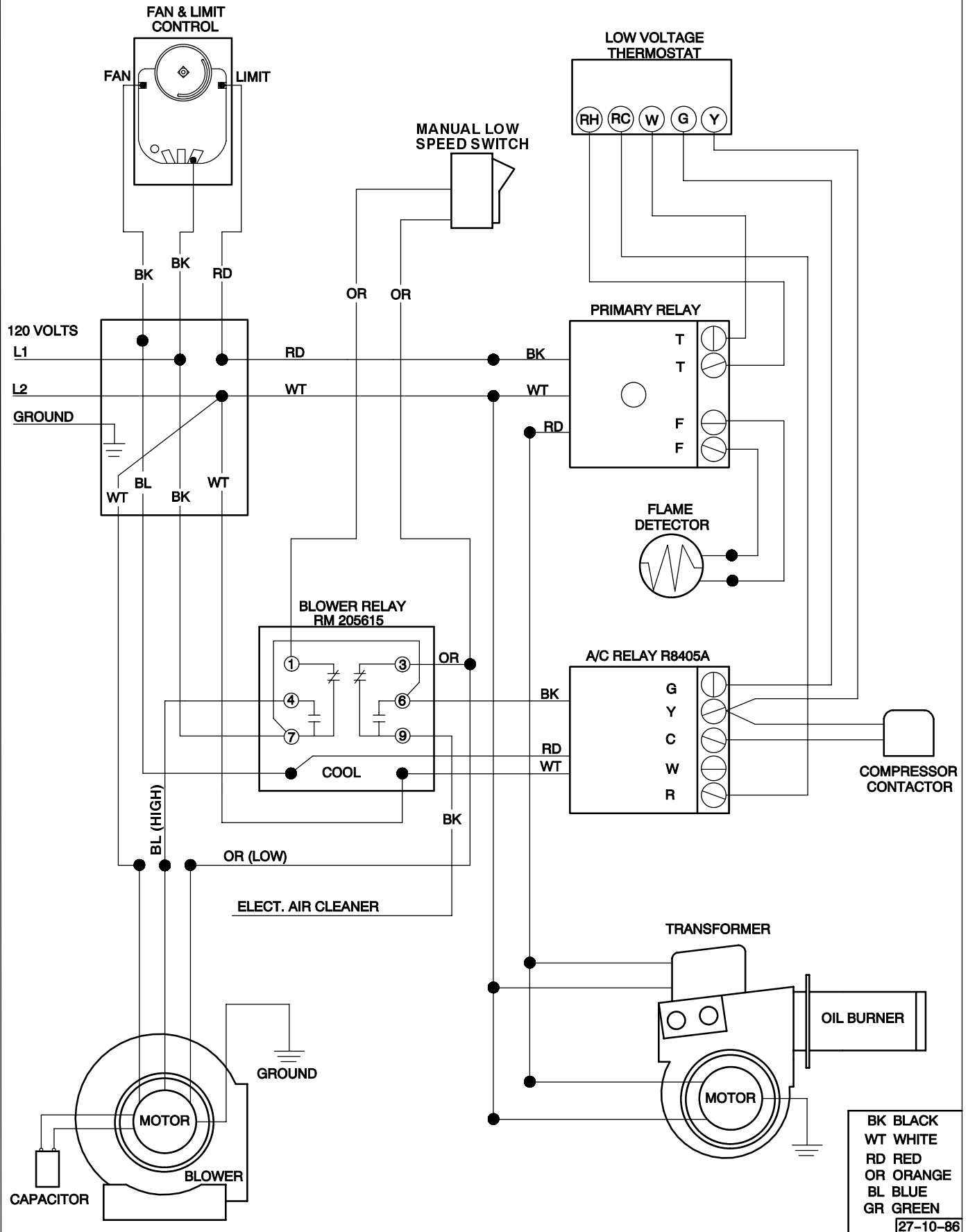
WARNING

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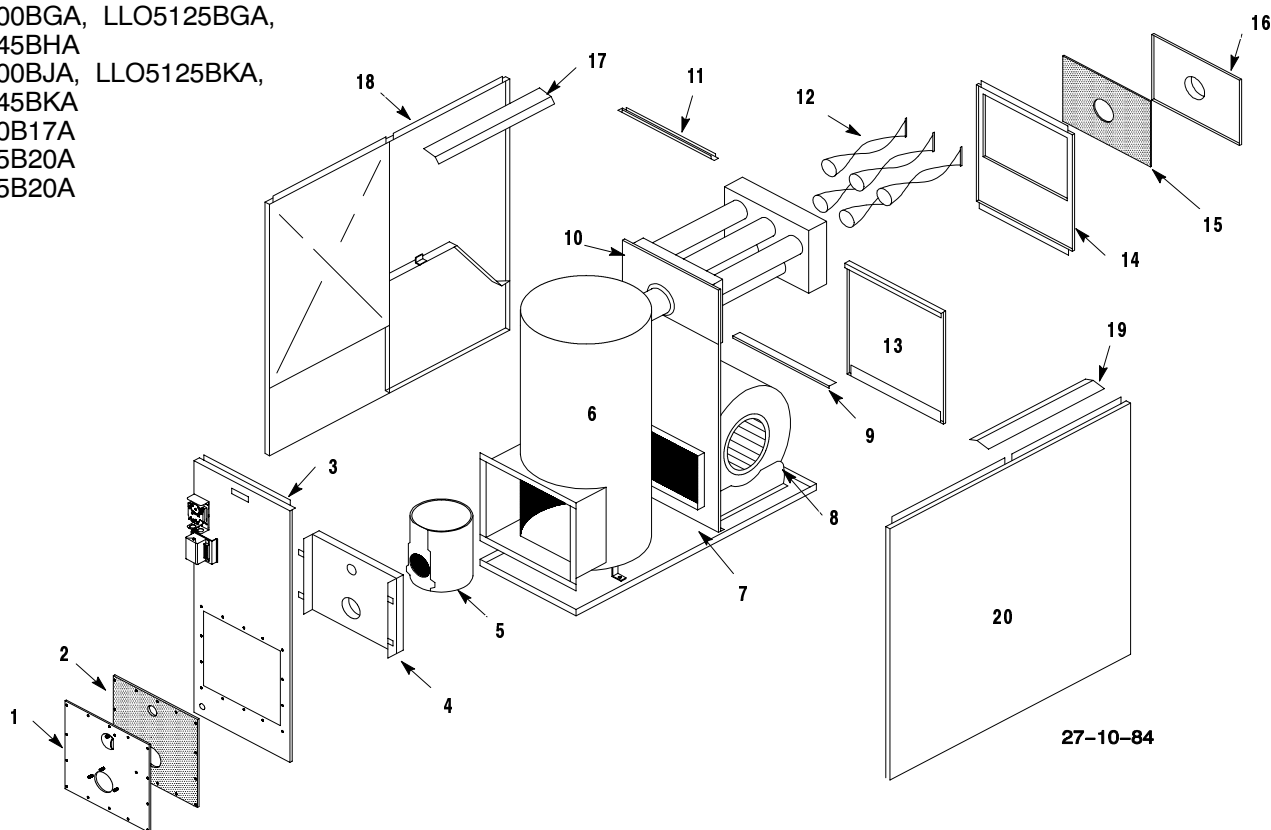
WIRING DIAGRAM - LLO5/OLL/LL07/OLM



Replacement Parts - LLO5/OLL/LL07/OLM

Replacement part supplied will be current active part. For parts not listed, consult place of purchase.

LLO5100BGA, LLO5125BGA,
LLO5145BHA
LLO5100BJA, LLO5125BKA,
LLO5145BKA
OLL100B17A
OLL125B20A
OLL145B20A

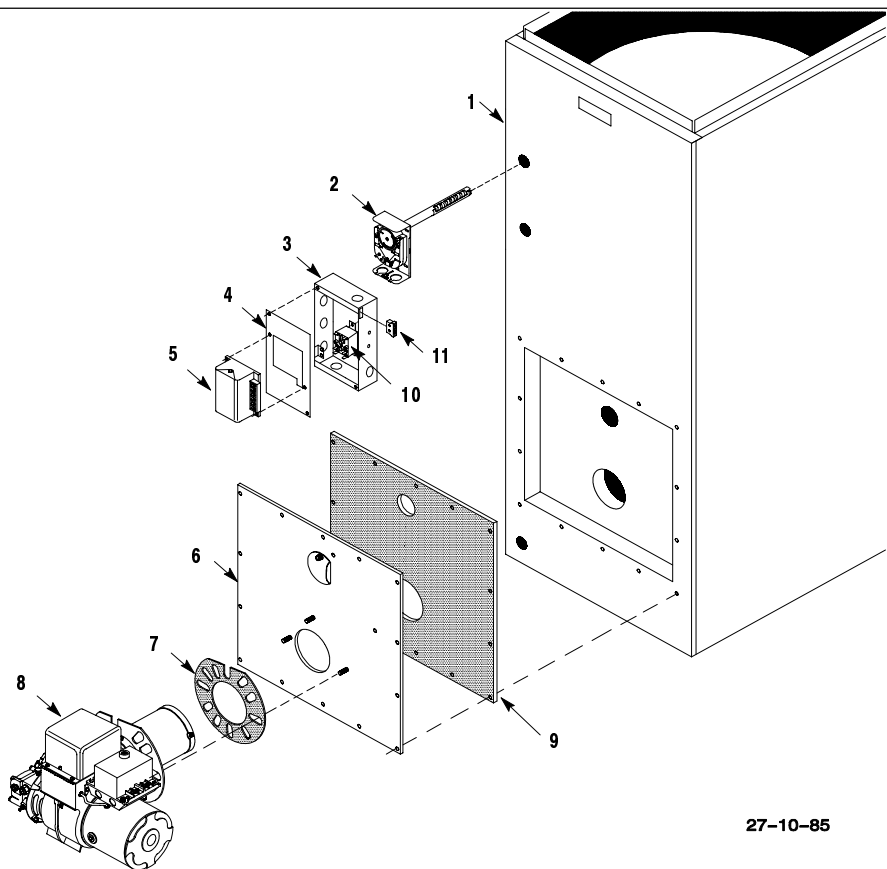


Key No.	Description	LLO5100BGA	LLO5125BGA	LLO5145BHA	OLL100B17A	OLL125B20A	OLL145B20A
					LLO5100BJA	LLO5125BKA	LLO5145BKA
1	Front Plate Assembly	35093050	35093050	35093050	35093050	35093050	35093050
2	Front Plate Ceramic Fiber Gasket	35090085	35090085	35090085	35090085	35090085	35090085
3	Front Panel Assembly	35092070	35092070	35092070	35092070	35092070	35092070
4	Insulation Pad with Support	35093080	35093080	35093080	35093080	35093080	35093080
5	Combustion Chamber	35090040	35090040	35090030	35090040	35090040	35090030
6	Heat Exchanger Assembly	35091030	35091030	35091060	35091030	35091030	35091060
7	Partition Assembly	35093010	35093010	35093010	35090035	35090035	35090035
8	Blower Assembly	604397	609241	35096030	35096040	35096050	35096050
9	Filter Rack	35090090	35090090	35090090	35090090	35090090	35090090
10	Top Partition	35090081	35090081	35090081	35090081	35090081	35090081
11	Plenum Separator	35090070	35090070	35090070	35090070	35090070	35090070
12	Twist Baffles Assembly	35092035	35092035	35092035	35092035	35092035	35092035
13	Fan Door	35091021	35091021	35091021	35091021	35091021	35091021
14	Top Door Assembly	35092010	35092010	35092020	35092010	35092010	35092020
15	Ceramic Fiber Cover Assembly	35090365	35090365	15390225	15390365	15390365	15390225
16	Rear Rad Box Cover Assembly	35092041	35092041	35092071	35092041	35092041	35092071
17	Air Deflector	35090100	35090100	----	35090100	35090100	---
18	Left Side Panel Assembly	35091012	35091012	35091012	35091012	35091012	35091012
19	Air Deflector	35090100	35090100	---	35090100	35090100	---
20	Right Side Panel Assembly	35091011	35091011	35091011	35091011	35091011	35091011
N/S	Controls Vestibule Cover	1411	1411	1411	1411	1411	1411
	Cover Only	35065051	35065051	35065051	35065051	35065051	35065051
	Burner Cover	35016021	35016021	35016021	35016021	35016021	35016021

Replacement Parts - LLO5/OLL/LL07/OLM

Replacement part supplied will be current active part. For parts not listed, consult place of purchase.

LLO5100BGA, LLO5125BGA,
LLO5145BHA
LLO5100BJA, LLO5125BKA,
LLO5145BKA
OLL100B17A
OLL125B20A
OLL145B20A



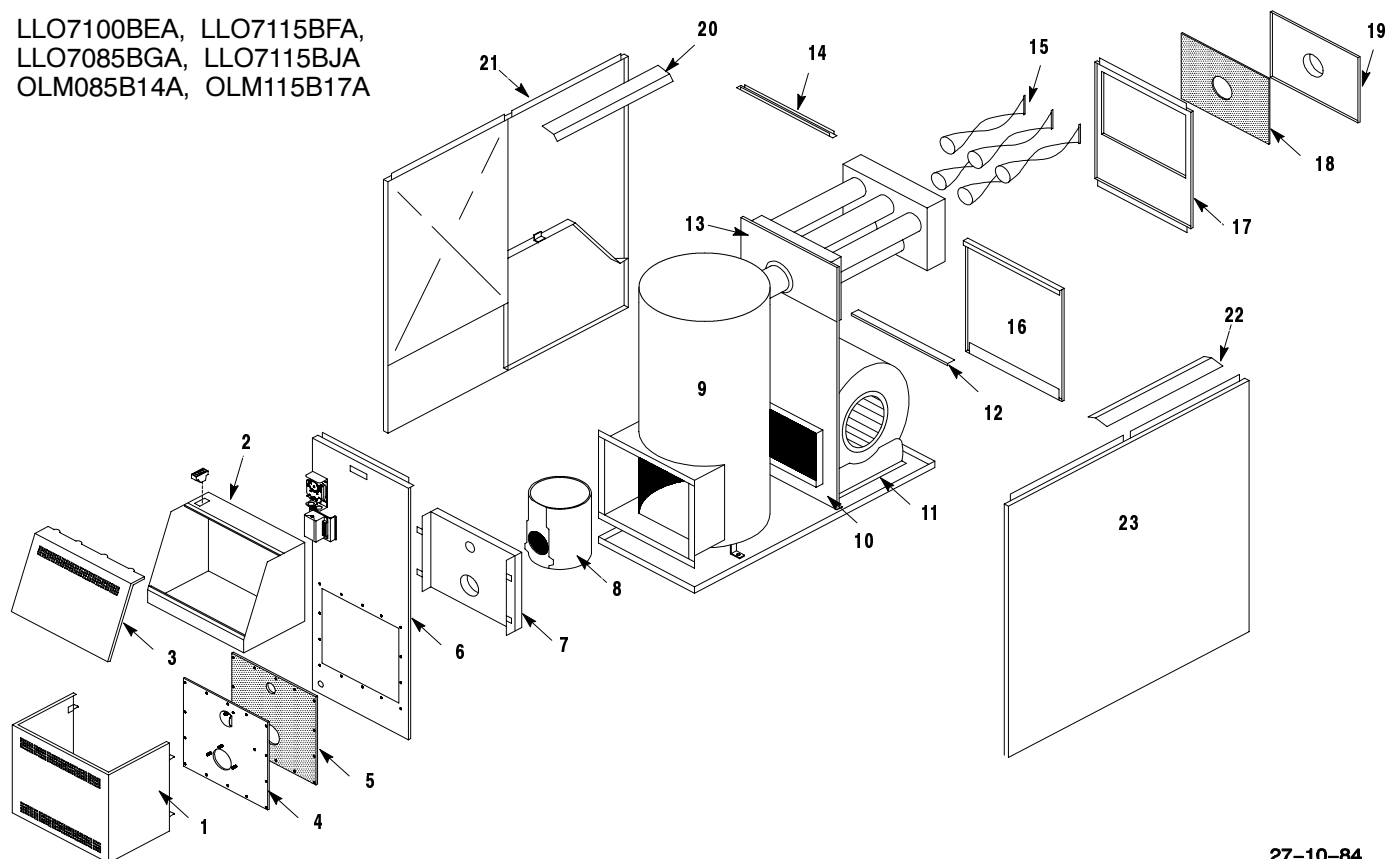
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Key No.	Description	OLL100B17A	OLL125B20A	OLL145B20A
		LLO5100BJA	LLO5125BKA	LLO5145BKA
		LLO5100BGA	LLO5125BGA	LLO5145BHA
1	Front Panel Assembly	35092030	35092030	35092030
2	Fan & Limit Control	1149503	1149503	1149503
3	Junction Box	35092016	35092016	35092016
4	Junction Box Cover	35092040	35092040	35092040
5	A/C Relay	050120	050120	050120
6	Front Plate Assembly	35093050	35093050	35093050
7	Burner Gasket	1650244	1650244	1650244
8	Beckett Burner Ass'y w/o Nozzle	1010050	1010050	1010050
9	Front Plate Ceramic Fiber Gasket	35090085	35090085	35090085
10	Blower Relay	050125	050125	050125
11	Low Speed Switch	050115	050115	050115

Replacement Parts - LLO5/OLL/LL07/OLM

Replacement part supplied will be current active part. For parts not listed, consult place of purchase.

LLO7100BEA, LLO7115BFA,
LLO7085BGA, LLO7115BJA
OLM085B14A, OLM115B17A



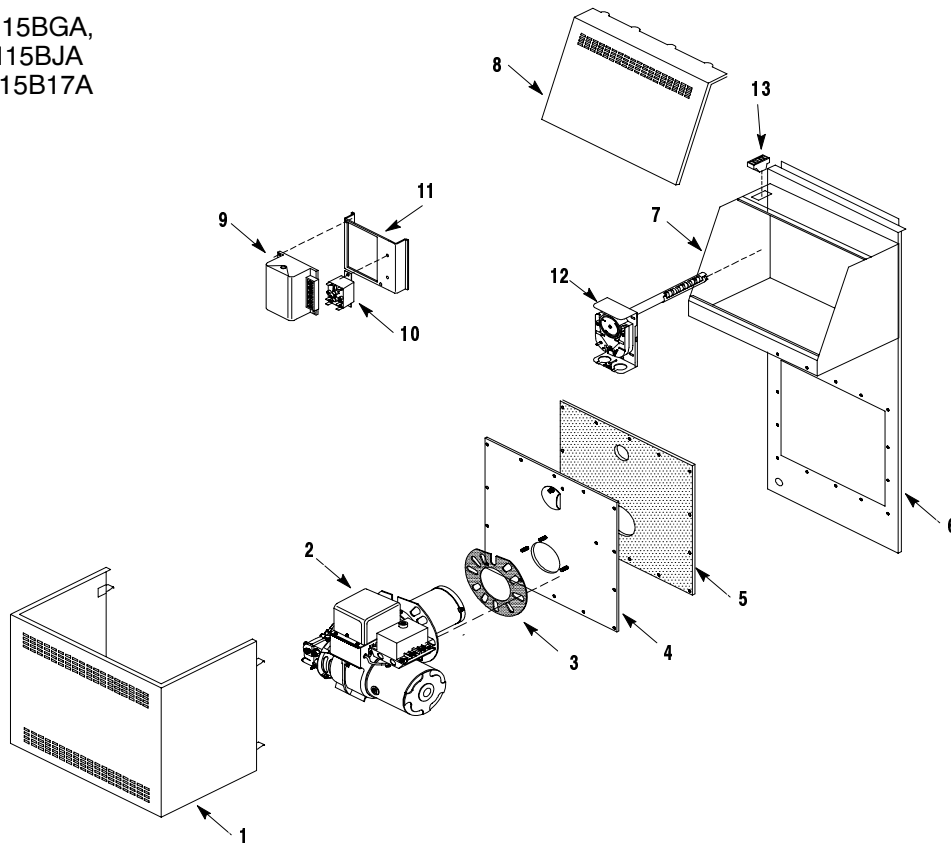
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Key No.	Description	LLO7085BEA	LLO7115BFA	OLM085B14A	OLM115B17A
				LLO7085BGA	LLO7115BJA
1	Vestibule Assembly	35096011	35096011	35096011	35096011
2	Cabinet Assembly	18096011	18096011	18096011	18096011
3	Cabinet Cover Plate	39095031	35095031	35095031	35095031
4	Front Plate Assembly	35093050	35093050	35093050	35093050
5	Front Plate Ceramic Fiber Gasket	35090085	35090085	35090085	35090085
6	Front Panel Assembly	18092050	18092050	18092050	18092050
7	Insulation Pad with Support	35093080	35093080	35093080	35093080
8	Combustion Chamber	35090040	35090040	35090040	35090040
9	Heat Exchanger Assembly	18091020	18091020	18091020	18091030
10	Partition Assembly	18093010	18093010	18093015	18093025
11	Blower Assembly	604397	604397	35096030	35096040
12	Filter Rack	18092020	18092020	18092020	18092020
13	Top Partition	35090081	35090081	35090081	35090081
14	Plenum Separator	35090070	35090070	35090070	35090070
15	Twist Baffles Assembly	35092035	35092035	35092035	35092035
16	Fan Door	18091021	18091021	18091021	18091021
17	Top Door Assembly	18092010	18092010	18092010	18092010
18	Ceramic Fiber Cover Gasket	35090365	35090365	35090365	35090365
19	Rear Rad Box Cover Assembly	35092041	35092041	35092041	35092041
20	Air Deflector	35090100	35090100	35090100	35090100
21	Left Side Panel Assembly	18091012	18091012	18091012	18091012
22	Air Deflector	35090100	35090100	35090100	35090100
23	Right Side Panel Assembly	18091011	18091011	18091011	18091011

Replacement Parts - LLO5/OLL/LL07/OLM

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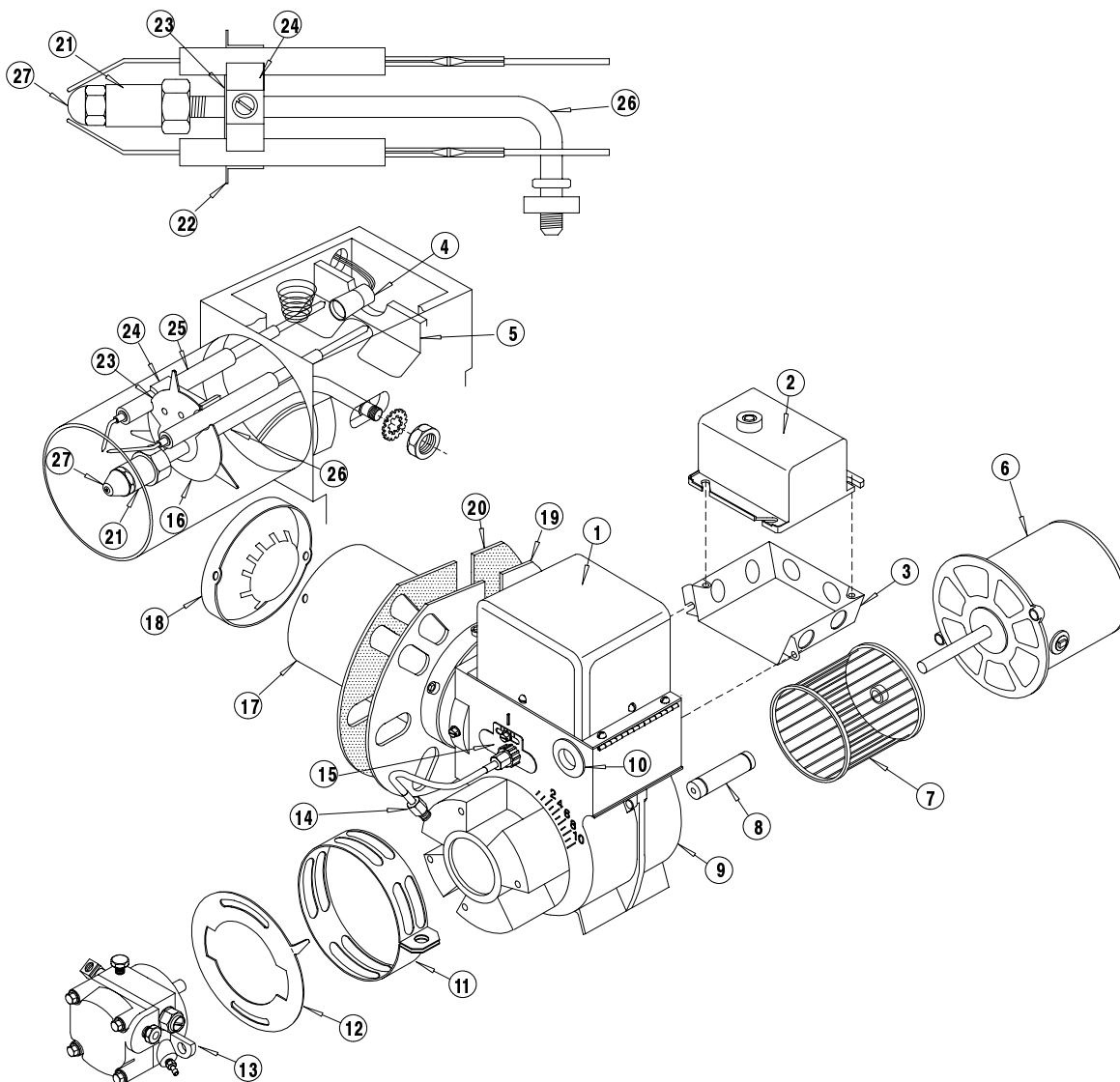
LLO7100BEA, LLO7115BGA,
LLO7085BGA, LLO7115BJA
OLM085B14A, OLM115B17A



Key No.	Description	OLM085B14A	OLM115B17A
		LLO7085BGA	LLO7115BJA
		LLO7085BEA	LLO7115BGA
1	Vestibule Assembly	35096011	35096011
2	Beckett Burner Ass'y w/o Nozzle	1010050	1010050
3	Burner Gasket	1650244	1650244
4	Front Plate Assembly	35093050	35093050
5	Front Plate Ceramic Fiber Gasket	35090085	35090085
6	Front Panel Assembly	18092060	18092060
7	Cabinet Assembly	18096011	18096011
8	Cabinet Cover Plate	39095031	39095031
9	A/C Relay	050120	050120
10	Blower Relay	050125	050125
11	Holding Bracket	18092080	18092080
12	Fan & Limit Control	1149503	1149503
13	Low Speed Switch	050115	050115

Replacement Parts - LLO5/OLL/LL07/OLM

Replacement part supplied will be current active part. For parts not listed, consult place of purchase.



27-10-79a

Key No.	Description of Beckett Burner	Part Number 1010050
1	Transformer, 115., 60Hz	1150466
2	Primary Control	612454
3	Junction Box Kit	1650257
4	Cad Cell	636063
5	Lo Firing Rate Baffle	1650256
6	Motor 1/7 H.P., 115V., 60Hz.	610424
7	Burner Wheel	1150448
8	Coupling	1150450
9	Burner Housing	1650233
10	Plug Hole	1150459
11	Air Band	1150446
12	Air Shutter	1650234
13	Fuel Pump Single Stage (Two Stage (Optional Accessory))	610467 1650250
14	Connector Tube Assembly	11150449
22	Escutcheon Place	1150453

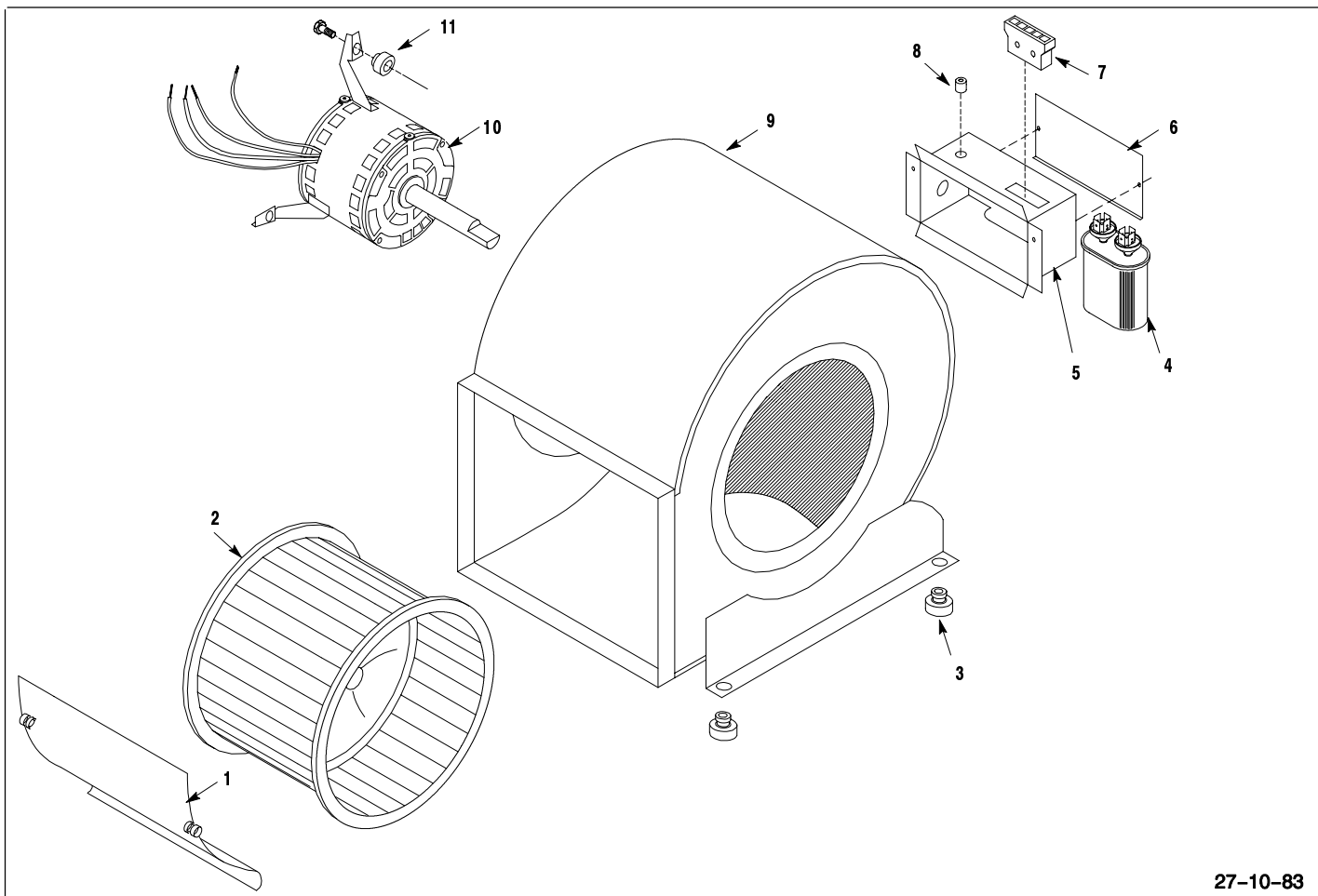
NOTE: SPECIFY BURNER MODEL

Key No.	Description of Beckett Burner	Part Number 1010050
16	Nozzle, Line, Electrode Assembly	NOTE:
17	Air Tube	NOTE:
18	Burner Head	1650262
19	Burner Flange	1650242
20	Ceramic Fiber Burner Gasket	1650244
21	Nozzle Adapter	1150462
22	Spider Spacer	1650273
23	Static Plate	NOTE:
24	Electrode Clamp	1650269
25	Electrode and Insulator (2)	1150452
26	Oil Line	NOTE:
27	Nozzle:	
	GPH, 0.65 70° W Delavan	505633
	GPH, 0.75 70° W Delavan	1665504
	GPH, 0.85 70° W Delavan	0500190
	GPH, 1.00 70° W Delavan	1150472
	GPH, 1.10 70° W Delavan	1665506
	GPH, 1.25 70° W Delavan	0500230

Replacement Parts - LLO5/OLL/LL07/OLM

Models - LLO5100BGA, LLO5125BGA, LLO5145BHA, LLO5100BJA, LLO5125BKA, LLO5145BKA, LLO7085BEA, LLO7115BFA, LLO7085BGA, LLO7115BJA; OLL100B17A, OLL125B20A, OLL145B20A, OLM085B14A, OLM115B17A

Replacement part supplied will be current active part. For parts not listed, consult place of purchase.



27-10-83

Key No.	Description	LLO5100BGA	LLO7085BEA	LLO7115BGA	OLL100B17A	OLL125B20A	OLL145B20A	OLM085B14A	OLM115B17A
		LLO5125BGA							
		LLO5145BHA			LLO5100BJA	LLO5125BKA	LLO5145BKA	LLO7085BGA	LLO7115BJA
1	Cut-Off Panel	67584	67584	67584	67584	67584	67584	67584	67584
2	Blower Wheel	601210	601210	601210	601212	601211	601211	601210	601212
3	Blower Mount Grommet	64475	64475	64475	64475	64475	64475	64475	64475
4	Capacitor 10 MFD 370V	100192	100192	100192	100192	100192	100192	100192	100192
5	Junction Box	95076	95076	95076	95076	95076	95076	95076	95076
6	Junction Box Cover	1001203	1001203	1001203	1001203	1001203	1001203	1001203	1001203
7	Terminal Block	96471	96471	96471	96471	96471	96471	96471	96471
8	Terminal Bushing	96473	96473	96473	96473	96473	96473	96473	96473
9	Blower Housing	72399	72399	72399	9015500	9015510	9015510	9010730	9015500
10	Blower Motor	500050	500030	500050	500060	1001480	1001480	500050	500060
11	Motor Mount Grommet	609194	609194	609194	609194	609194	609194	609194	609194