



The #1 Source for Donut and Bakery Equipment

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OPERATOR'S MANUAL TECHNICAL SUPPLEMENT PARTS AND ELECTRICAL DIAGRAMS



Belshaw 624 Fryer with Type B Depositor, Submerger and EZMelt Melter-Filter.

618L • 624

Donut Fryer • Electric

ITEM NUMBERS

21254-10 618L, 18" x 26", 208-240V/50-60Hz/1-Phase

21257-10 624, 24" x 24", 208-240V/50-60Hz/1-Phase

21256-10 618L, 18" x 26", 208-240V/50-60Hz/3-Phase

21259-10 624, 24" x 24", 208-240V/50-60Hz/3-Phase

SERIAL NUMBER

(FT



Item Number / Serial Number are listed on a data tag attached to the equipment. This manual should only be used with the Item Number(s) shown above.



Electric Fryer 618L, 624, and 634

Operator's Manual

Belshaw Adamatic Bakery Group 814 44th Street NW, Suite 103 Auburn, WA 98001 USA

Phone: (206) 322-5474 • Fax: (206) 322-5425

Email: service@belshaw.com • http://www.belshaw.com

EQUIPMENT RECORD					
Please provide the information below when you correspond with Belshaw about your machine.					
Purchased by					
Installed by					
Date of Installation					
Model number					
Serial number					

IN CASE OF DAMAGE TO EQUIPMENT

In case of damage to the equipment upon delivery, follow these steps immediately.

- 1. Inform the freight carrier. The phone number will be on the shipping receipt or label.
- 2. Take photographs of the equipment, both inside and outside the box or crate.
- 3. Do not throw away any packaging.
- 4. Report the damage to the distributor (or other party) from whom you bought the equipment.
- 5. Email your photos to the distributor (or other party) AND to Belshaw Customer Service at service@belshaw.com. Include a Belshaw Order Number in your communications. Your Order Number will begin with "CO..., followed by 6 digits) and should be marked on the box or crate.

IN CASE OF MISSING ITEMS

- 1. If possible, note the missing items on the delivery receipt of the freight carrier.
- 2. Take photographs of the entire shipment.
- 3. Follow steps 2-5 above.

MN-0019EN 031819 Belshaw Adamatic Bakery Group 814 44th Street NW, Suite 103 Auburn, WA 98001 USA

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Preface

The 618L, 624, and 634 Electric Fryers are designed to fry cake and yeast-raised donut products. Each must be bolted to a flat, dry floor. The operator should stand opposite the heater head.

The operator must work safely at all times and read this manual and follow its instructions and warnings. A thorough understanding of how to install, maintain, and safely operate the fryer will prevent production delays and injuries.

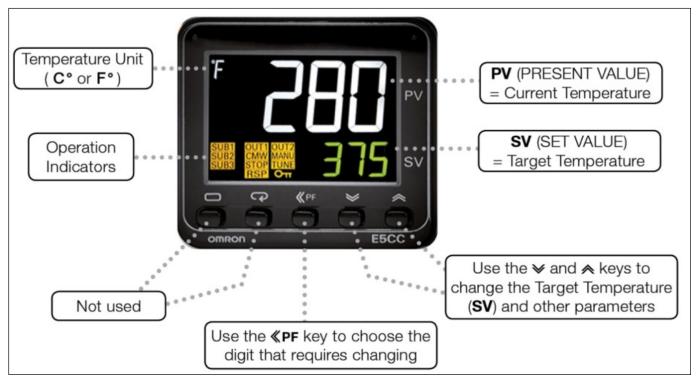
Heed the following warnings and all other warnings that appear in this manual:

- Make sure the machine is bolted securely to the floor. Doing so will prevent the machine from moving, tipping, or falling, which could cause serious injury.
- To avoid damaging the machine, never use force to assemble, disassemble, operate, clean, or maintain it.
- Never let water and hot shortening come in contact with each other. Moisture causes hot shortening to spatter, which may cause serious burns.
- Do not overfill the kettle with shortening. If shortening overflows the kettle, it could cause serious burns or could cause someone to slip on the floor and be seriously injured.

- Hot shortening can cause serious burns. Make sure that the system and the shortening are cool before attempting any cleaning, adjustment, disassembly, or repair.
- To avoid electrocution or other injury, unplug the machine before attempting any cleaning, adjustment, disassembly, or repair.
- Be careful never to get shortening, water, or other materials on the floor. If anything does get spilled on the floor, mop it up immediately. Materials on the floor can cause people to slip or fall, resulting in serious injury or loss of life.
- To prevent unintentional startup and possible fire, unplug the machine if there is a local power outage. When the power is restored, it is safe to plug the machine in again.
- To avoid electrocution, make sure that all electrical cords are not frayed or cracked and that they do not pass through any water or shortening.
- Make sure that all electrical cords are routed so that no one will trip over them.

1

Operation



Above: OMRON Digital Temperature Controller

READ EACH STEP COMPLETELY BEFORE DOING WHAT IT TELLS YOU TO DO.

- 1. Make sure the drain is closed. The drain handle is at the side of the fryer (usually the left side).
- 2. Put enough shortening in the kettle to completely cover the heating elements, thermocouple, and high-temperature limit control probe. Use one of these 3 methods:
- 3. If you have a Belshaw EZMelt shortening melter-filter, warm the shortening and then transfer it to the kettle. (Refer to the EZMelt operator's manual).

WARNING

Hot shortening causes severe burns.

- 4. Melt shortening in a pan on the stove and pour it into the kettle.
- 5. Put solid shortening manually into the kettle. Pack it tightly around the heating elements, thermocouple, and high-temperature limit control probe.

WARNING

Cover the heating elements completely! If you put solid shortening, do not leave any air spaces. Any air can cause the shortening to overheat and catch on fire.

- 6. When the elements have been completely covered with shortening, move the on/off switch to the ON position.
- 7. The "Power On" pilot light on the front of the fryer will light up.

FOR THE NEXT STEPS, SEE THE DIAGRAM OF THE DIGITAL TEMPERATURE CONTROLLER ON THE PREVIOUS PAGE

To adjust the target temperature (marked SV on the controller), push the up and down arrows at the bottom right.

- 1. Set the Digital Temperature Controller target temperature to 250°F/121°C.
- 2. The "Heating" pilot light on the front of the fryer will light up, indicating that the shortening has not yet reached the selected temperature.
- 3. Continue adding shortening to the kettle until it reaches the proper depth for frying. Use one of the 3 methods below. For safety reasons, we recommend the first method, and discourage you from using any other method.
- 4. Use a Belshaw EZMelt to melt shortening and transfer it to the kettle. See the EZMelt manual.
- 5. Melt shortening in a pan on the stove and pour it into the kettle.
- 6. Very carefully, put solid shortening into the kettle.

WARNING

To avoid serious burns, be very careful not to splatter hot shortening when you add shortening to the kettle.

Shortening expands as it increases in temperature. Put shortening in the kettle gradually. Let the shortening in the kettle heat up before you add more.

- 7. After all of the shortening has melted, set the digital temperature controller to the desired frying temperature.
- 8. The "Heating" pilot light will go out if the high temperature limit control breaks the circuit.
- 9. Wait for the shortening to reach the desired temperature.

WARNING

To avoid serious burns, when the fryer is operating, do not any part of the fryer that is in contact with hot shortening.

Note: The fryer will automatically shut off the elements if temperature is too high. To restart, wait for the shortening to cool, then push the red reset button inside the door.

10. If you are frying cake donuts, move the depositor into place over the fryer. Refer to the depositor manual for complete installation and operation instructions.

CAUTION

To avoid damaging the machine, do not operate the conveyor until all the shortening has melted.

- 11. Continue supplying shortening to the kettle as required. Keep the kettle filled up to the "Oil Level" marks on the side.
- 12. When you have finished using the fryer, move the on/off switch to the OFF position.

2

Cleaning

For your safety, observe the following warnings throughout the entire cleaning process.

WARNING

Thoroughly clean and dry the floor if shortening, water, or other materials are spilled. Materials spilled on the floor can cause serious injury or loss of life.

WARNING

To avoid electrocuting yourself or damaging the machine, never allow water, steam, shortening, cleaning solution, or any other liquid to enter the electrical box or the heater head.

WARNING

To avoid being burned in an explosion, never use any flammable materials for cleaning.

Cleaning the Exterior Surfaces

- Clean the polished and painted surfaces of the fryer with a soft, damp cloth. Use a nonabrasive cleaner to remove any discoloration.
- 2. Polish these surfaces with a soft, dry cloth.

Cleaning the Frying Screen

- 1. In a sink or a dishwasher, wash the frying screen using warm water and mild detergent. Do not use an abrasive cleaner or scraper.
- 2. Rinse the frying screen in clear water.
- 3. Dry the frying screen thoroughly, using a soft cloth, before using it again.

WARNING

Dry the frying screen thoroughly.

Moisture causes hot shortening to spatter,
which may cause serious injury.

4. Check the frying screen to make sure no metal is flaking off of it. If the screen is flaking, replace it immediately, so you do not get metal particles in your product.

Cleaning the Kettle

There are four basic steps to cleaning the kettle: removing the shortening, washing, rinsing, and drying. You must perform all four steps and perform them in the order listed.

Removing the Shortening

WARNING

To avoid being burned or electrocuted, disconnect the fryer from the power source before cleaning it.

- 1. Disconnect the machine from the power source.
- 2. Let the shortening cool to 100°F/38°C.

3. Place a Belshaw Shortening Filter or a large metal container under the drain valve of the fryer.

WARNING

Do not use a plastic container. If the shortening is not cool enough, the container will melt, possibly causing you to be burned, and causing shortening to get on the floor.

- 4. Open the drain valve by turning the drain valve extension knob on the side of the fryer cabinet. Allow all the shortening to drain into the Shortening Filter or metal container.
- 5. If you are using a metal container, watch it to make sure the shortening does not overflow. If the container becomes full, close the drain valve, put another metal container under the drain valve, and open the drain valve again.

WARNING

Do not allow the shortening to overflow the containers. Shortening will get on the floor, and if the shortening is not cool enough, you may be burned.

WARNING

Thoroughly clean and dry the floor if shortening is spilled. Shortening on the floor can cause serious injury or loss of life.

- 6. If you have drained the shortening into a metal container and you wish to re-use the shortening, set the container of shortening aside. Place another suitable container under the drain valve.
- 7. Brush accumulated crumbs from the heating elements. Accumulated crumbs causes corrosion and poor heat recovery.

- 8. Tilt the heater head assembly out of the fryer and lock it in place.
- 9. Using a non-abrasive, non-metallic spatula, scrape the sediment and any remaining shortening through the drain valve.
- 10. Close the drain valve.

Washing

- 1. Carefully pour hot water into the kettle, up to the normal level of the shortening. Add trisodium phosphate (TSP) or another appropriate cleaner.
- 2. Scrub the inside of the kettle. Do not use any abrasive cleaners or scrapers.

WARNING

To avoid being burned, be very careful as you work with hot cleaning solution. Never put your hands in the solution. Wear gloves and long sleeves in case any solution splashes.

- 3. Allow the cleaning solution to cool to 100°F/38°C.
- 4. Place a large metal container under the drain valve.

WARNING

Do not use a plastic container. If the cleaning solution is not cool enough, the container will melt; possibly causing you to be burned, and causing cleaning solution to get on the floor.

5. Open the drain valve and allow the cleaning solution to drain into the container.

6. Watch the container to make sure the cleaning solution does not overflow. If the container becomes full, close the drain valve, put another large metal container under the drain valve, and open the drain valve again.

WARNING

Do not allow the cleaning solution to overflow the container. Cleaning solution will get on the floor, and if the solution is not cool enough, you may be burned.

- 7. When the draining is complete, close the drain valve.
- 8. Carefully carry the container(s) to the sink and slowly pour the solution into the sink.

WARNING

Thoroughly clean and dry the floor if cleaning solution is spilled. Liquid on the floor can cause serious injury or loss of life.

<u>Rinsing</u>

- 1. Carefully pour clean, hot water into the kettle, up to the normal level of the shortening. If the cleaner you have used requires that you add a neutralizer, do so now.
- 2. Allow the water to sit for 5-10 minutes. Then allow it to cool to 100°F/38°C.
- 3. Place a large metal container under the drain valve.

WARNING

Do not use a plastic container. If the water is not cool enough, the container will melt, possibly causing you to be burned, and causing cleaning solution to get on the floor.

4. Open the drain valve and allow the water to drain into the container.

5. Watch the container to make sure the water does not overflow the container. If the container becomes full, close the drain valve, put another large metal container under the drain valve, and open the drain valve again.

WARNING

Do not allow the water to overflow the container. Water will get on the floor, and if the water is not cool enough, you may be burned.

- 6. When the draining is complete, close the drain valve.
- 7. Carefully carry the container(s) to the sink and slowly pour the water into the sink.

WARNING

Thoroughly clean and dry the floor if water is spilled. Water on the floor can cause serious injury or loss of life.

Drying

Dry the kettle, drain valve and burner tubes thoroughly, using a soft cloth. Make sure no water is in the drain or drain tube.

WARNING

Dry all parts of the fryer thoroughly.
Failure to dry the fryer and kettle completely will cause an eruption.
Shortening will overflow the sides of the fryer and may result in fire, injury, or death.

3 Donut-Making Helps

Tips on Making Quality Cake Donuts

• Use the correct batter temperature.

In general, the correct batter temperature is 75°-80°F/24°-27°C. Check the mix manufacturer's instructions, as the recommended temperature range may vary.

If the batter is too warm, the donuts will lack volume and may "ring out" or be misshapen. If the batter is too cold, the donuts will stay under the shortening too long, fry too slowly, and crack open or ball up. They may also absorb excess shortening and lose volume.

• Use the correct floor time.

A floor time of 10 minutes between mixing and cutting allows the baking powder to react with the water. This helps the donuts attain the proper volume the proper level of shortening penetration.

If the floor time exceeds 30 minutes, the mix will gas off, the donuts will lose volume and shape and will absorb too much shortening.

• Use the correct frying temperature.

The correct shortening temperature for frying is 370°-380°F/188°-193°C.

If the shortening is too hot, the donuts will fry too quickly on the outside and will lose volume. The donuts may also become dense inside. If the shortening is too cold, the donuts will spread too rapidly, will form large rings, will tend to crack open, will be too light in appearance, and will absorb too much shortening.

• Maintain the proper shortening level. We recommend a distance of 1 1/4" between the depositor and the shortening.

If the shortening is too deep, the donuts may not turn over when they reach the turner, causing them to cook unevenly.

If the shortening is too shallow (too far below the depositor), the donuts may not drop flat, may turn over while submerging and surfacing, and may become irregular, cracked, or rough-crusted.

• Ensure that the donuts absorb the right amount of shortening.

Donuts should absorb 1-1/2 to 3 oz/42 to 85 g of shortening per dozen, depending on their weight. You can achieve proper absorption by following tips 1-3.

• If the donuts do not absorb enough shortening, they will not keep well.

If they absorb too much shortening, they will lose volume and may become misshapen. If this happens, follow tips 1-3, mix the batter a little longer than usual, turn the donuts as soon as they become golden brown, and turn the donuts only once.

Calculating Correct Water Temperature

The following is an example of how to calculate the correct water temperature to use. You must use your own room temperature, dry mix temperature, desired batter temperature, and, if you are making yeast-raised donuts, estimated temperature increase during mixing.

	Cake Do	nuts	Yeast-Rais	ed Donuts
	°F	$^{\circ}\mathrm{C}$	°F	$^{\circ}\mathrm{C}$
Room temperature	72	22.2	72	22.2
Dry mix temperature	<u>+70</u>	<u>+21.1</u>	<u>+70</u>	<u>+21.1</u>
Total A	142	43.3	142	43.3
Desired batter temperature	75	23.9	80	26.7
	<u>x3</u>	<u>x3</u>	<u>x3</u>	<u>x3</u>
Total B	225	71.7	240	80.1
Total B	225	71.7	240	80.1
-Total A	<u>-142</u>	<u>-43.3</u>	<u>-142</u>	<u>-43.3</u>
Desired water temp. for cake donuts	83°F	28.4°C	98	36.8
			\downarrow	\downarrow
		Figure from above	98	36.8
Temperature increase during		17		
Desired water tem	perature for	yeast-raised donuts	68°F	19.8°C

Ratios of Plunger Sizes to Donut Weights

The weights given are for donuts without icings or other toppings. They are provided for reference only, as weights vary according to the density of the batter.

Plunger Size	Donut Weight per Dozen
1"	5-8 oz/142-227 g
1 5/8"	14-17 oz/397-482 g
1 3/4"	16-20 oz/454-567 g
1 7/8"	19-24 oz/539-680 g
2"	22-27 oz/624-765 g

Temperature Conversion

To convert temperatures from Fahrenheit to Celsius, subtract 32 from °F and divide the result by 1.8. For example, 212°F-32/1.8 = 100°C.

To convert temperatures from Celsius to Fahrenheit, multiply °C by 1.8 and add 32 to the result. For example, $(100 \, ^{\circ}\text{C x } 1.8) + 32 = 212 \, ^{\circ}\text{F}$.

°F	°C	°F	°C
55	12.8	340	171.1
60	15.6	345	173.9
65	18.3	350	176.7
70	21.2	355	179.4
75	23.9	360	182.2
80	26.7	365	185.0
325	162.8	370	187.8
330	165.6	375	190.6
335	168.3	380	193.3



Electric Fryer 618L | 624

Technical Supplement

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IN CASE OF MISSING ITEMS

- 1. If possible, note the missing items on the delivery receipt of the freight carrier.
- 2. Take photographs of the entire shipment.
- 3. Follow steps 2-5 above.

MN-1128EN 031819 Belshaw Adamatic Bakery Group 814 44th Street NW, Suite 103 Auburn, WA 98001 USA

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Before you start

The 618L, 624, and 634 Electric Fryers are designed to fry cake and yeast-raised donut products. Each must be bolted to a flat, dry floor. The operator should stand opposite the heater head.

The operator must work safely at all times and read this manual and follow its instructions and warnings. A thorough understanding of how to install, maintain, and safely operate the fryer will prevent production delays and injuries.

Heed the following warnings and all other warnings that appear in this manual:

- Make sure the machine is bolted securely to the floor. Doing so will prevent the machine from moving, tipping, or falling, which could cause serious injury.
- To avoid damaging the machine, never use force to assemble, disassemble, operate, clean, or maintain it.
- Never let water and hot shortening come in contact with each other. Moisture causes hot shortening to spatter, which may cause serious burns.
- Do not overfill the kettle with shortening. If shortening overflows the kettle, it could cause serious burns or could cause someone to slip on the floor and be seriously injured.

- Hot shortening can cause serious burns. Make sure that the system and the shortening are cool before attempting any cleaning, adjustment, disassembly, or repair.
- To avoid electrocution or other injury, unplug the machine before attempting any cleaning, adjustment, disassembly, or repair.
- Be careful never to get shortening, water, or other materials on the floor. If anything does get spilled on the floor, mop it up immediately. Materials on the floor can cause people to slip or fall, resulting in serious injury or loss of life.
- To prevent unintentional startup and possible fire, unplug the machine if there is a local power outage. When the power is restored, it is safe to plug the machine in again.
- To avoid electrocution, make sure that all electrical cords are not frayed or cracked and that they do not pass through any water or shortening.
- Make sure that all electrical cords are routed so that no one will trip over them.

Installation

Unpacking the Fryer

- 1. Use a fork lift to transport the shipping crate to the work station.
- 2. Break down the shipping crate.
- 3. Remove all the packing materials from the fryer. These include foam, tape, brown paper, plastic, and white protective coating.
- 4. Position the fryer to allow sufficient space on either end of the machine for any equipment you plan to use with it.

Initial Cleaning

Clean your fryer before using it. Wipe the inside of the kettle with a soft, damp cloth. Dry the kettle thoroughly.

WARNING

To avoid electrocuting yourself or damaging the machine, never allow water, steam, cleaning solution, or other liquid to enter the heater head or the electrical box.

WARNING

Never let water and hot shortening come in contact with each other. Moisture causes hot shortening to spatter, which may cause serious injury. Prior to use, make sure the kettle and any other parts you have washed are dry.

Installing the Fryer

- 1. Make sure the power requirements of the machine, found on the data plate on the back of the heater head assembly, match your power source.
- 2. Using a fork lift or pallet jack, lift the fryer cabinet and screw each leg in as far as it will go.
- 3. Set the fryer cabinet on a flat, dry floor.
- 4. Level the fryer. Follow these steps:
 - a. Check to see if the fryer is level. To do so, place a level across the top of the fryer cabinet.
 - b. If the fryer is not level, lift the fryer using a fork lift or pallet jack, and turn the legs to adjust them.
 - c. Using the fork lift or pallet jack, lower the fryer to the floor. Be sure that all the legs rest on the floor when the fryer is level.
- 5. Bolt the fryer to the floor. The foot of each leg has two holes in it for this purpose.

WARNING

To avoid serious burns, other injury, or death, make sure the fryer is securely fastened to the floor so it will not tip or fall over.

9. Connect the fryer to a properly grounded power source.

Moving the Fryer

If you ever want to move the fryer to a different workstation, follow this procedure:

- 1. Turn off the fryer and disconnect it from the power source.
- 2. Allow the machine and the shortening to cool.

WARNING

Do not touch hot shortening. It can cause serious burns.

3. Remove the shortening from the fryer as explained in "Removing the Shortening" in Section 3.

WARNING

To avoid burns, falls, other injury, or death, never attempt to move the fryer when it has shortening or other liquid in it.

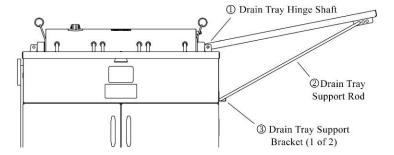
WARNING

Thoroughly clean and dry the floor if shortening is spilled. Materials on the floor can cause people to slip or fall, resulting in serious injury or loss of life.

- 4. Remove the bolts that secure the fryer to the floor.
- 5. Using a fork lift, transport the machine to the new workstation.
- 6. Level the fryer, bolt it to the floor, and connect it to the power source, as explained in "Installing the Fryer" above.

Mounting the Drain Tray

The drain tray is mounted on the right side of the fryer in the factory. To move the drain tray on the left side, see the diagram below and follow these steps.



- 1. Remove the acorn nut from the back side of the drain tray hinge shaft (Diagram ①)
- 2. Slide the drain tray hinge shaft out of the drain tray mounting brackets (Diagram ②)
- 3. Lift off the drain tray.
- 4. Remove the two drain tray support brackets that are mounted on the right side of the cabinet (Diagram ③)
- 5. Install the drain tray support brackets on the left side of the cabinet. Each bracket is held in place by two hex-head machine screws, two hex nuts, two internal tooth lock washers, and two flat washers. Tighten all of these securely.
- 6. Put the drain tray in place on the left side of the fryer. The holes on the drain tray should line up with the holes in the mounting brackets on the left side.
- 7. Slide the drain tray hinge shaft through the holes in the mounting brackets and the drain tray.
- 8. Tighten the acorn nut (removed in step 1) on the end of the drain tray hinge shaft.
- 9. Lift the drain tray support rod (Diagram ②) so it is held in place by the support brackets installed on the left side in Step 5.

Assembling the Frying Screen Handles

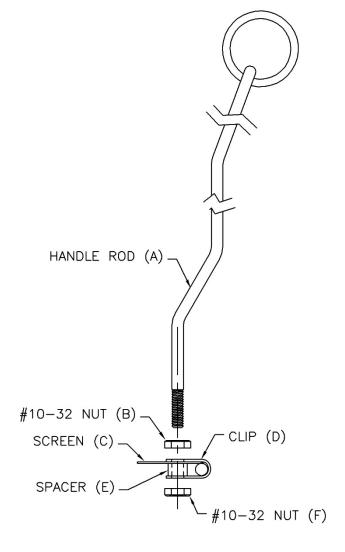
(Be aware that you may be using detachable handles rather than fixed handles, particularly when making raised donuts using screens which are placed inside a proofer. In this case, your handles should NOT be attached to screens.)

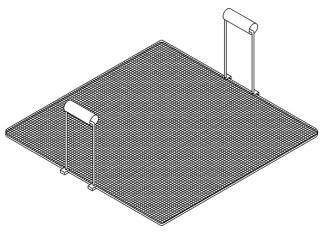
Frying Screens come with handles and hardware unassembled. When assembled the location of the handles should be as follows:

- For Model 618L and 718L Fryers, center the handles along the long sides of the screen.
- For Models 624 and 724, center the handles along any opposing sides of the screen.
- For Models 634 and 734, center the handles along the short sides of the screen.

To assemble Frying Screens, refer to Figure 1 opposite.

- 1. Install #10-32 Nuts (B) on threaded handle rods (A).
- 2. Locate clips (D) on the screen (C). Center the handles as listed above for each type of fryer.
- 3. Insert threaded end of handle (A) with handle to outside as shown, making sure that the spacer (E) is in place.
- 4. Install #10-32 nuts (F) flush onto threaded end of handle (A)
- 5. Tighten #10-32 Nuts (B) locking handle assembly to screen.





(Above: Figure 1)

2

Troubleshooting

If you have a problem with your fryer that you cannot solve, call your dealer or another qualified technician.

If your dealer cannot help you, please call Belshaw Bros. at (206)322-5474. When you call, please specify the following:

- The model name of the machine.
- The serial number of the machine.
- The voltage, phase, and cycle of the machine.

CAUTION

If you perform repairs yourself or have them performed by anyone other than a service technician authorized by Belshaw Bros., you do so at your own risk.

WARNING

Disconnect the machine from the power source before disassembling, repairing, or wiring

THE FRYER WILL NOT TURN ON O	R HEAT
Possible Causes	What To Do
The on/off switch is not in the ON position.	Move the on/off switch to the ON position. The on/off switch is located inside the fryer cabinet, on the right hand side.
The thermostat is not turned on.	On the digital temperature controller, increase the target temperature to a setting that is high enough to make the "Heating" pilot light come on.
The high-temperature limit control switch has been tripped.	Press the red reset button on the back of the heater head.
	WARNING
	Before doing any of the following, turn off the machine and allow the shortening to cool.
The primary power distribution circuit breaker has been tripped.	Flip the circuit breaker. The circuit breaker is visible through an access cutout in the electrical box. (The electrical box is inside the cabinet, in the back.)
A fuse is blown.	Replace the fuse.
THE HEATING ELEMENTS FAIL TO TEMPERATURE	MAINTAIN THE PROPER
Possible Causes	What To Do
	WARNING
	Before doing any of the following, turn off the machine and allow the shortening to cool.
The thermostat is out of adjustment.	Adjust thermostat calibration. See "Temperature Controller Programming Procedure" in Appendix.
The thermostat is defective.	Replace the thermostat.
Sediment has accumulated around the thermostat bulb.	Remove the shortening from the fryer, as explained in Section 3, "Cleaning." Remove the sediment from the thermostat bulb.

THE HEATING ELEMENTS WILL NOT HEAT				
Possible Causes	What To Do			
The fryer's circuit breaker has been tripped.	Press the red reset button on the back of the heater head.			
The high-temperature limit control switch has been tripped.	Press the red reset button on the back of the heater head.			
	WARNING			
	Before doing any of the following, turn off the machine and allow the shortening to cool.			
The contactor is defective.	Replace the contactor.			
A heating element is defective.	Replace the defective heating element.			
The high-temperature limit control is defective.	Replace the high-temperature limit control.			
The thermostat is out of adjustment.	Adjust thermostat calibration. See "Temperature Controller Programming Procedure" in Appendix.			
The digital temperature controller is defective.	Replace the controller.			

3 Temperature Controller

Changing Parameters on the Electronic Temperature Controller

To change parameters on the temperature controller, see the Service Bulletin SB-0446 on the following pages.

MKII Temperature Controller Programming procedure

This service bulletin covers the procedure for programing the TJ-0184D-3 or 4 (Omron E5CC-RX3DM-000) temperature controller used in a Mark II, Mark V or Mark VI.

The TJ-0184D-2 controller comes per-programmed and protected so the operator cannot change the setup parameters. To change any setting you must first unlock the controller.

Note: Only the settings that are changed from the Factory settings are listed below.



To unlock the controller:

- 1. Press the \(\to \) + \(\to \) keys for more than 3 seconds
- 2. Press the key to move to the next parameter
- 3. Press the \triangle or \triangle to change the parameter $\overline{a}RPL$ and $\overline{a}LPL$ from 2 to 0
- 4. Press the 🔾 + 🖃 keys for more than 1 second to return to operator screen

Parameter	Factory default setting	Present setting	Unit	Front panel	Explanation of present setting
Protection parameters					
Operation/Adjustment Protect	0	2		ōRPĿ	2:Display and change of only "PV" and "PV/SP" parameters is allowed.
Initial Setting/Communications Protect	1	2	•	<u> CEP</u> E	2:Prohibited [₽]

To change operator set points: (Must be unlocked to change Alarm Value 1)

- 1. Press the key to move to the next parameter
- 2. Press the ♠ or ▶ to change the parameter
- 3. Press the \infty key to return to operator screen

Operator set points					
Set Point	0.0	375.0/190.0	°F/°C	0	
Alarm Value 1	0.0	10.0/5.0	°F/°C	AL - !	

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To change operator level parameters: (Must be unlocked)

- 1. Press the O key for less than 1 second
- 2. Press the key to move to the next parameter
- 3. Press the ♠ or ▶ to change the parameter
- 4. Press the O key to return to operator screen

Operator level parameters					
Process Value Input Shift	0.0	0.0	°F/°C	ZN5	This is the offset setting for calibration
Hysteresis (Heating)	1.0	0.5	°F/°C	HY5	

To change initial level parameters: (Must be unlocked)

- 1. Press the \(\subseteq \text{ key for move than 1 second to adjust intial parameters} \)
- 2. Press the 🖾 key to move to the next parameter
- 3. Press the ♠ or ▶ to change the parameter
- 4. Press the \(\subseteq \) key for more than 1 second return to operator screen

Initial level parameters					
Input Type	5	8	•	ΞN-Ł	8:Thermocouple[J] (-20.0 to 400.0°C or 0.0 to 750.0°F) [-3]
Temperature Unit	0	1	•	d-U	°F [F]
SP Upper Limit	130.0	400.0/200.0	°F/°C	5L -H	
SP Lower Limit	-20.0	0.0	°F/°C	5L -L	
Alarm 2 Type	2	0		ALE2	0:Alarm function OFF [□]
Alarm 3 Type	2	0	•	ALE3	0:Alarm function OFF [1]
Alarm 4 Type	2	0	•	ALEY	0:Alarm function OFF [1]

To change advanced level parameters: (Must be unlocked)

- 1. Unlock the controller
- 2. Press the \(\subseteq \text{ key for more than 1 second to adjust intial parameters } \)
- 3. Press the 🖼 key until you get to parameter AMāV
- 4. Press the

 or

 to change

 ∃Māl' parameter to -169

Advanced level parameters					
Alarm 1 Latch	0	1		A ILE	Enabled [a]
PV/SP No. 1 Display Selection	4	1	•	SPd!	1:"PV/SP/No display" [/]
PV Decimal Point Display	1	0		Pl/dP	OFF [ōFF]

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After programming: To lock the controller:

- 1. Press the + + keys for more than 3 seconds
- 2. Press the key to move to the next parameter
- 3. Press the \triangle or \triangle to change the parameter $\triangle PL$ and $\triangle LPL$ from 0 to 2
- 4. Press the 🔾 + 🔄 keys for more than 1 second to return to operator screen

To set the controller back to factory default settings: (Must be unlocked, see page 1)

- 1. Press the O key for more than 1 second to adjust intial parameters
- 2. Press the key until you get to parameter AMaV
- 3. Press the

 or

 to change

 Ama

 parameter to -169
- 4. Change parameter *INIL* from *GFF* to *FRLL*
- 5. Press the \infty key for more than 1 second return to intial screen
- 6. Press the key for more than 1 second return to operator screen

Please do not hesitate to contact Belshaw Adamatic Bakery Group for additional assistance at (206) 322-5474, (800) 578-2547or e-mail at service@belshaw.com.

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Donut Robot Mark II TS

4 Diagrams & Parts Lists

See Parts List on following pages.



Electric Fryer 618L | 624

Operator's Manual Technical Supplement

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Email: service@belshaw.com • http://www.belshaw.com

Parts and Electrical Diagrams

RECORD YOUR ITEM NUMBER BELOW:

MARK FOR YOUR FRYER	ITEM NUMBER	MODEL	SIZE	VOLTS	HERTZ	PHASE
	21254-10	618L	18" X 26"	208-240V	50/60 hz	1
	21256-10	618L	18" X 26"	208-240V	50/60 hz	3
	21257-10	624	24" X 24"	208-240V	50/60 hz	1
	21259-10	624	24" X 24"	208-240V	50/60 hz	3

ABOUT ITEM NUMBERS

All machines are identified by an Item Number. The Item Number is located on a data tag attached to the back of the control panel. You need to know your fryer's Item Number to identify parts diagrams for that fryer. Find out your item number, and mark it on the front cover of this manual, and also immediately below.

For Item Numbers 21254-10, 21256-10, 21257-10 and 21259-10.

Mechanical and electrical diagrams for these Item Numbers are included in the following pages.

For Item Numbers 20154,21256, 21257 and 21259.

You can find the manual and diagrams for these Item Numbers on the Belshaw Adamatic web site. Look for Open Kettle Fryers (Electric) in the catalog. The manuals are in the PDF's section of the web page for any Open Kettle Electric fryer. www.belshaw.com/catalog/retail-equipment/donut-fryers

For Other Item Numbers

Contact Belshaw Service at service@belshaw.com or call 1-800-578-2547 (US/Canada) or (+1)206-322-5474 (International).

DIAGRAM: 21254-10 BOM USE THIS PARTS LIST FOR

MODEL: 618L ITEM NUMBER: 21254-10

TO IDENTIFY MODEL AND ITEM NUMBER, SEE DATA TAG ON CONTROL PANEL

PART NUMBER

BILL OF MATERIAL

21254-10 R01 618L FRYER 208-240V/60/1

R	:							ENT SEE SK-1587			ME									PULL POWER ROHS																					
А٦	ΓΑ	-	4WG	ING	GE			OR FIELD REPLACEM		/2 GRY	INISH: BRIGHT CHROI	E GRAP	, t			CTR				CATCH PLASTIC 5LB			SS					IVLON)				SS	S								
Component Name	SWITCH PLATE ON/OFF	LABEL; BELSHAW LOGO	LABEL; SUPPLY CONNECT 10,	LABEL; INSTALLATION WARN	LABEL,WARNING HAZ VOLTA	FRYER BRACKET CLAMP	BRKT PLATE, CUTTER MOUNI	TEMP CRTL, 1/16, 24V, OPK	COLLAR, 0.257, 1PIECE, SS	CND,1/2 FLEX LA GRAY UA 1,	PROOFING SCREEN 17 X 25 F	LABEL, DRAIN VALVE, HANDL	SS DRAIN TRAY SUPPORT RE	HANDLE DOOR	DOOR MGT BRACKET	16GA SHIM PLATE .17DIA 1.5	SCREW, PN, PH, 8-32X3/8 SS	NUT,LOCK NY INS, 10-24 SS	NUT,ACORN,5/16-18 SS	SURFACE MOUNT MAGNETION	CAUTION HOT SURFACE LAB	HANDLE, SCREEN	SCREW,HHMB,HH,10-24X1/2	SCREW,HHMB,1/4-20X1/2 S	SCREW, HHMB, 5/16-18X1 SS	NUT,HEX,6-32 SS	NUT, HEX, 10-24 SS	NUT,LOCK ESNA,1/4-20 SS (N	WASHER, LOCK INT, 1/4 SS	WASHER, LOCK INT5/16 SS	WASHER, LOCK INT, #10 SS	SCREW,HHMB,HH,10-24X3/8	SCREW, SMS #10X1/2 HWH S								
Quantity Component Part	1 DR42-0050A	1 EP18/24-0140 R09	1 LBL-0013	1 LBL-0014	1 MDD-0459	1 P-0001	1 P-0002	1 TJ-0184C-2	1 U-0008 R21	1.5 991-0006	2 618-0007A R12	2 618L-0143	2 624-0039 R21	2 724G-0203 R09	2 724G-0299 R06	2 724G-7025	2 903-0410.A	2 903-5101	2 903-6455	2 905-2004	3 MK-0186	4 618-0513 R13	4 903-0519SS	4 903-0970SS	4 903-1330	4 903-5075SS	4 903-5102	4 903-5201SS	4 903-7529	4 903-7542SS	10 903-7514	14 903-0501SS	14 903-7516								
Component Name	LABEL SERIAL PLATE STD	HEATER HEAD ASSY 240V UL	ELECTRICAL BOX WLDT	COVER, ELECTRICAL BOX, WLDT	WARNING LABEL	DRAIN TRAY SUPPORT ROD	TILT LATCH	HEATER HEAD RETAINING BRKT-LH	HEATER HEAD RETAINING BRKT-RH	SS FRYER KETTLE ASSY	618L FRYER CONTROL ENCL. P1 208/240V, 1PH	WIRING HARNESS OPEN KETTLE ELECTRIC 208/240V	TOGGLE SWITCH DPST 20A SLIP ON	CUTTER MOUNT CLAMP BAR-UPPER	DRAIN VALVE BALL 1-1/4 NSF	DOOR, LEFT HAND WLDT.	DOOR, RIGHT HAND WLDT.	DRAIN TRAY HINGE SHAFT	DRAIN TRAY ASSY	EXTENSION ROD ASSY W/HANDLE	ASSEMBLY, CABINET	THERMOCOUPLE, TYPE J	PILOT LIGHT 25V YELLOW ARCOLECTRIC	SHORTENING CAUTION LABEL	LABEL, TEMPERATURE CONTROL	PILOT LIGHT RED 25V	2" PLUG BUTTON, NICKEL PLATED 10/PKG	LABEL; INSTALLATION WARNING	HINGE SPACER	KNOB, DRAIN VALVE	COVER, TEMP CONTROLLER, DOOR	1/4-20X1/4 SKT SET SCR CP LP	LABEL,ETL LISTED,NSF STD 4	LABEL; ETL LISTED, UL STD 197 STD C22.2	CONNECT, 1/2 STR LIQ-TITE FLX BRIDGEPORT 430-SLT, VMI	CONNECT,1 STR LIQ-TITE FLX T&B	CONNECT,1/2 90DEG LIQ-TITE FLX	GRIP,CORD .250375" C WHT	GRIP,CORD GRIP .375500" D BLU	CLAMP,CORD, AL, .750875", 1" NPT, ORC	71 1 1 7 0 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1
Quantity Component Part	1 0160 R00	1 618-1516-240 R02	1 618-8000 R01	1 618-8002 R00	1 618L-0105	1 618L-0124	1 618L-0125	1 618L-0130 R04	1 618L-0131 R03	1 618L-1057 R13S	1 618L-1700-1 R00	1 618L-1700-3 R00	1 624-0003A	1 624-0170	1 624-0174	1 718G-8004	1 718G-8005	1 718LG-0038	1 718LG-0529	1 718LG-0530	1 718LG-8002 R00	1 724G-0144	1 724G-0146	1 724G-0183	1 724G-0204-1	1 724G-0205	1 724G-0206	1 724G-0312	1 724G-0313 R03	1 724G-6006	1 724G-8009	1 903-0951.CP	1 904-0035	1 904-0040	1 990-0006	1 990-0008	1 990-0014	1 992-0001	1 992-0002	1 992-0025	, , , , ,
	nt Part Component Name Quantity Component Part Component Name N	LABEL SERIAL PLATE STD 1 DR42-0050A 3	LABEL SERIAL PLATE STD 1 EP18/24-0140 R09 LABEL; BELSHAW LOGO	LABEL SERIAL PLATE STD LABEL SERIAL PLATE STD LABEL SERIAL PLATE STD 1 EP18/24-0140 R09 LABEL; BELSHAW LOGO 1 LBL-0013 LABEL; SUPPLY CONNECT 10AWG	LABEL SERIAL PLATE STD LABEL SERIAL PLATE STD LABEL SERIAL PLATE STD LABEL SERIAL PLATE STD 1 EP18/24-0140 R09 LABEL; BELSHAW LOGO 1 LBL-0013 LABEL; SUPPLY CONNECT 10AWG COVER, ELECTRICAL BOX, WLDT 1 LBL-0014 LABEL; INSTALLATION WARNING	LABEL SERIAL PLATE STD LABEL SERIAL PLATE STD LABEL SERIAL PLATE STD LABEL SERIAL PLATE STD 1 EP18/24-0140 R09 LABEL; BELSHAW LOGO 1 LBL-0013 LABEL; SUPPLY CONNECT 10AWG 1 LBL-0014 LABEL; SUPPLY CONNECT 10AWG 1 LBL-0014 LABEL; INSTALLATION WARNING LABEL; NASTALLATION WARNING LABEL; NASTALLATION WARNING LABEL; NASTALLATION WARNING LABEL; NASTALLATION WARNING	LABEL SERIAL PLATE STD LABEL SERIAL PLATE STD LABEL SERIAL PLATE ON/OFF LABEL SERIAL PLATE STD LABEL SERIAL PLATE ON/OFF LECTRICAL BOX WLDT COVER, ELECTRICAL BOX, WLDT WARNING LABEL WARNING LABEL LABEL SUPPLY CONNECT 10AWG 1 LBL-0014 LABEL; NSTALLATION WARNING LABEL; NS	Component Name Component Name Z LABEL SERIAL PLATE STD 1 DR42-0050A SWITCH PLATE ON/OFF T	Component Name Component Name Z LABEL SERIAL PLATE STD 1 DR42-0050A SWITCH PLATE ON/OFF T	LABEL SERIAL PLATE STD	LABEL SERIAL PLATE STD	LABEL SERIAL PLATE STD	LABEL SERIAL PLATE STD	LABEL SERIAL PLATE STD	LABEL SERIAL PLATE STD	LABEL SERIAL PLATE STD	LABEL SERIAL PLATE STD	LABEL SERIAL PLATE STD	LABEL SERIAL PLATE STD	LABEL SERIAL PLATE STD	LABEL SERIAL PLATE STD	CUBBRIDGE	Label Serial Name	LABEL SERIAL PLATE STD	LABEL SERIAL PLATE STD	Label Serial Parties Component Part	Label Serial Plate STD	LABEL SERIAL PLATE STD	LABEL SERIAL PLATE STD	LABEL SERIAL PLATE STD	LABEL SERIAL PLATE STD	LABEL SERIAL PLATE STD	LABEL SERIAL PLATE STD	LABEL SERIAL PLATE STD	LABEL SERIAL PLATE STD	December Component Part	COUNER_LERINAL PLATE STD	Component Range	JABEL SERIAL PLATE STD	JABEL SERIAL PLATE STD	JABEL SERIAL PLATE STD

DIAGRAM: 21256-10 BOM USE THIS PARTS LIST FOR

MODEL: 618L ITEM NUMBER: 21256-10

TO IDENTIFY MODEL AND ITEM NUMBER, SEE DATA TAG ON CONTROL PANEL

21256-10 R01 618L FRYER 208/240V-60-3 PART NUMBER

BILL OF MATERIAL

Quantity	Quantity Component Part	Component Name	Quantity Component Part	Component Name	AN AN
1	1 0160 R00	LABEL SERIAL PLATE STD	1 DR42-0050A	SWITCH PLATE ON/OFF	ND TA EL
1	l 618-1516-240 R02	HEATER HEAD ASSY 240V UL	1 EP18/24-0140 R09	LABEL; BELSHAW LOGO	
1	L 618-8000 R01	ELECTRICAL BOX WLDT	1 LBL-0013	LABEL; SUPPLY CONNECT 10AWG	
1	L 618-8002 R00	COVER, ELECTRICAL BOX, WLDT	1 LBL-0014	LABEL, INSTALLATION WARNING	
1	l 618L-0105	WARNING LABEL	1 MDD-0459	LABEL, WARNING HAZ VOLTAGE	
1	l 618L-0124	DRAIN TRAY SUPPORT ROD	1 P-0001	FRYER BRACKET CLAMP	
1	l 618L-0125	TILT LATCH	1 P-0002	BRKT PLATE, CUTTER MOUNT	
1	L 618L-0130 R04	HEATER HEAD RETAINING BRKT-LH	1 TJ-0184C-2	TEMP CRTL,1/16, 24V, OPK FOR FIELD REPLACEMENT SEE SK-1587	O REPLACEMENT SEE SK-1587
1	L 618L-0131 R03	HEATER HEAD RETAINING BRKT-RH	1 U-0008 R21	COLLAR, 0.257, 1PIECE, SS	
1	L 618L-1057 R13S	SS FRYER KETTLE ASSY	1.5 991-0001	CND,3/8 FLEX LA GRAY	
1	l 618L-1700-1 R00	618L FRYER CONTROL ENCL. P1 208/240V, 1PH	2 618-0007A R12	PROOFING SCREEN 17 X 25 FINISH: BRIGHT CHROME	RIGHT CHROME
1	L 624-0003A	TOGGLE SWITCH DPST 20A SLIP ON	2 618L-0143	LABEL, DRAIN VALVE, HANDLE GRAP	
1	1 624-0170	CUTTER MOUNT CLAMP BAR-UPPER	2 624-0039 R21	SS DRAIN TRAY SUPPORT REST	
1	1 624-0174	DRAIN VALVE BALL 1-1/4 NSF	2 724G-0203 R09	HANDLE DOOR	
1	L 624-1070-1 R00	WIRE HARNESS - OMRON CONTROLLER	2 724G-0299 R06	DOOR MGT BRACKET	
1	l 718G-8004	DOOR, LEFT HAND WLDT.	2 724G-7025	16GA SHIM PLATE .17DIA 1.5 CTR	
1	1 718G-8005	DOOR, RIGHT HAND WLDT.	2 903-0410.A	SCREW,PN,PH,8-32X3/8 SS	
1	1 718LG-0038	DRAIN TRAY HINGE SHAFT	2 903-5101	NUT,LOCK NY INS,10-24 SS	
1	l 718LG-0529	DRAIN TRAY ASSY	2 903-6455	NUT,ACORN,5/16-18 SS	
1	1 718LG-0530	EXTENSION ROD ASSY W/HANDLE	2 905-2004	SURFACE MOUNT MAGNETIC CATCH PLASTIC 5LB PULL POWER ROHS	PLASTIC 5LB PULL POWER ROHS
1	1 718LG-8002 R00	ASSEMBLY, CABINET	3 MK-0186	CAUTION HOT SURFACE LABEL	
1	l 724G-0144	THERMOCOUPLE, TYPE J	4 618-0513 R13	HANDLE, SCREEN	
1	1724G-0146	PILOT LIGHT 25V YELLOW ARCOLECTRIC	4 903-0519SS	SCREW,HHMB,HH,10-24X1/2 SS	
1	1 724G-0183	SHORTENING CAUTION LABEL	4 903-0970SS	SCREW,HHMB,1/4-20X1/2 SS	
1	1 724G-0204-1	LABEL, TEMPERATURE CONTROL	4 903-1330	SCREW, HHMB,5/16-18X1 SS	
1	1 724G-0205	PILOT LIGHT RED 25V	4 903-5075SS	NUT,HEX,6-32 SS	
1	1 724G-0206	2" PLUG BUTTON, NICKEL PLATED 10/PKG	4 903-5102	NUT,HEX,10-24 SS	
1	1 724G-0312	LABEL; INSTALLATION WARNING	4 903-5201SS	NUT,LOCK ESNA,1/4-20 SS (NYLON)	
1	l 724G-0313 R03	HINGE SPACER	4 903-7529	WASHER, LOCK INT, 1/4 SS	
1	1 724G-6006	KNOB, DRAIN VALVE	4 903-7542SS	WASHER, LOCK INT5/16 SS	
1	1 724G-8009	COVER, TEMP CONTROLLER, DOOR	10 903-7514	WASHER, LOCK INT, #10 SS	
1	l 903-0951.CP	1/4-20X1/4 SKT SET SCR CP LP	14 903-0501SS	SCREW,HHMB,HH,10-24X3/8 SS	
1	1 904-0035	LABEL, ETL LISTED, NSF STD 4	14 903-7516	SCREW, SMS #10X1/2 HWH SS	
1	1 904-0040	LABEL; ETL LISTED, UL STD 197 STD C22.2			
1	5000-066 1	CONNECT,3/8 STR LIQ-TITE FLX/FS			
1	8000-066 1	CONNECT,1 STR LIQ-TITE FLX T&B			
1	1 990-0013	CONNECT,3/8 90DEG LIQ-TITE FLX			
1	1 992-0001	GRIP,CORD .250375" C WHT			
	1 992-0002	GRIP,CORD GRIP .375500" D BLU			
	992-0025	CLAMP CORD AL 750-875" 1" NPT ORC			

DIAGRAM: 21254-10 BOM USE THIS DIAGRAM FOR

MODEL: 624 ITEM NUMBER: 21257-10

TO IDENTIFY MODEL AND ITEM NUMBER, SEE DATA TAG ON CONTROL PANEL

21257-10 R01 624 FRYER 208/240V-60-1 PART NUMBER

BILL OF MATERIAL

Cisting Company Bart	Component Name	District Company Day	NE TA	R:
daning component rail	I ABEL SEBIAL DI ATE STO	daalitik component rait	-	
1 618-8000 801	ELECTRICAL ROX WINT	1 FD18/24-0140 BO9	JABEI: BEISHAW I OGO	
1 618-8002 R00	COVER, ELECTRICAL BOX, WLDT	1 LBL-0013	LABEL; SUPPLY CONNECT 10AWG	
1 618L-0105	WARNING LABEL	1 LBL-0014	LABEL; INSTALLATION WARNING	
1 618L-0125	TILT LATCH	1 MDD-0459	LABEL, WARNING HAZ VOLTAGE	
1 618L-0130 R04	HEATER HEAD RETAINING BRKT-LH	1 P-0001	FRYER BRACKET CLAMP	
1 618L-0131 R03	HEATER HEAD RETAINING BRKT-RH	1 P-0002	BRKT PLATE, CUTTER MOUNT	
1 624-0003A	TOGGLE SWITCH DPST 20A SLIP ON	1 TJ-0184C-2	TEMP CRTL,1/16, 24V, OPK FOR FIELD REPLACEMENT SEE SK-1587	SEE SK-1587
1 624-0037	DRAIN TRAY SUPPORT ROD	1 U-0008 R21	COLLAR,0.257,1PIECE,SS	
1 624-0170	CUTTER MOUNT CLAMP BAR-UPPER	1.5 991-0001	CND,3/8 FLEX LA GRAY	
1 624-0174	DRAIN VALVE BALL 1-1/4 NSF	2 618L-0143	LABEL, DRAIN VALVE, HANDLE GRAP	
1 624-1057 R04S	SS FRYER KETTLE ASSY	2 624-0007A R13	PROOFING SCREEN, 23 X 23 FINISH: BRIGHT CHROME	
1 624-1070-1 R00	WIRE HARNESS - OMRON CONTROLLER	2 624-0039 R21	SS DRAIN TRAY SUPPORT REST	
1 624-1516-240 R02	HEATER HEAD ASSY 240V UL	2 724G-0203 R09	HANDLE DOOR	
1 624-1700-1 R01	624 FRYER CONTROL ENCL. P1	2 724G-0299 R06	DOOR MGT BRACKET	
1 724G-0088	DRAIN TRAY HINGE SHAFT	2 724G-7025	16GA SHIM PLATE .17DIA 1.5 CTR	
1 724G-0144	THERMOCOUPLE, TYPE J	2 903-0410.A	SCREW,PN,PH,8-32X3/8 SS	
1 724G-0146	PILOT LIGHT 25V YELLOW ARCOLECTRIC	2 903-5101	NUT,LOCK NY INS,10-24 SS	
1 724G-0183	SHORTENING CAUTION LABEL	2 903-6455	NUT,ACORN,5/16-18 SS	
1 724G-0204-1	LABEL, TEMPERATURE CONTROL	2 905-2004	SURFACE MOUNT MAGNETIC CATCH PLASTIC 5LB PULL POWER ROHS	POWER ROHS
1 724G-0205	PILOT LIGHT RED 25V	3 MK-0186	CAUTION HOT SURFACE LABEL	
1 724G-0206	2" PLUG BUTTON, NICKEL PLATED 10/PKG	4 618-0513 R13	HANDLE,SCREEN	
1 724G-0312	LABEL; INSTALLATION WARNING	4 903-0519SS	SCREW,HHMB,HH,10-24X1/2 SS	
1 724G-0313 R03	HINGE SPACER	4 903-0970SS	SCREW,HHMB,1/4-20X1/2 SS	
1 724G-0540	DRAIN TRAY ASSY	4 903-1330	SCREW, HHMB,5/16-18X1 SS	
1 724G-0556	EXTENSION ROD ASSY W/HANDLE	4 903-5075SS	NUT,HEX,6-32 SS	
1 724G-6006	KNOB, DRAIN VALVE	4 903-5102	NUT,HEX,10-24 SS	
1 724G-8006	DOOR, LEFT HAND WLDT.	4 903-5201SS	NUT,LOCK ESNA,1/4-20 SS (NYLON)	
1 724G-8007	DOOR, RIGHT HAND WLDT.	4 903-7529	WASHER, LOCK INT, 1/4 SS	
1 724G-8009	COVER, TEMP CONTROLLER, DOOR	4 903-7542SS	WASHER, LOCK INTS/16 SS	
1 724G-8010 R00	CABINET WLDT	10 903-7514	WASHER, LOCK INT, #10 SS	
1 903-0951.CP	1/4-20X1/4 SKT SET SCR CP LP	14 903-0501SS	SCREW,HHMB,HH,10-24X3/8 SS	
1 904-0035	LABEL, ETL LISTED, NSF STD 4	14 903-7516	SCREW,SMS #10X1/2 HWH SS	
1 904-0040	LABEL; ETL LISTED, UL STD 197 STD C22.2			
1 990-0005	CONNECT,3/8 STR LIQ-TITE FLX/FS			
1 990-0008	CONNECT,1 STR LIQ-TITE FLX T&B			
1 990-0013	CONNECT,3/8 90DEG LIQ-TITE FLX			
1 992-0001	GRIP,CORD .250375" C WHT			
1 992-0002	GRIP, CORD GRIP .375500" D BLU			
1 992-0025	CLAMP,CORD, AL, .750875", 1" NPT, ORC			
1 992-0200	CORD GROMMET SPLIT LOCKING 2" ID FOR 1" FLEX			

DIAGRAM: 21256-10 BOM
USE THIS DIAGRAM FOR

MODEL: 624 ITEM NUMBER: 21259-10

TO IDENTIFY MODEL AND ITEM NUMBER, SEE DATA TAG ON CONTROL PANEL

BILL OF MATERIAL

PART NUMBER

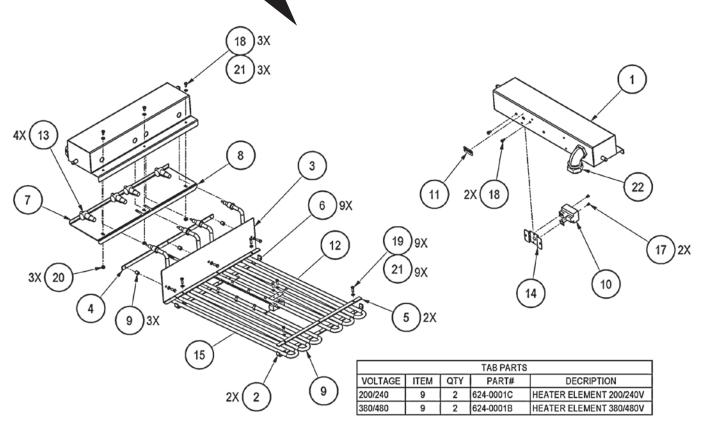
21259-10 R01 624 FRYER 208/240V-60-3

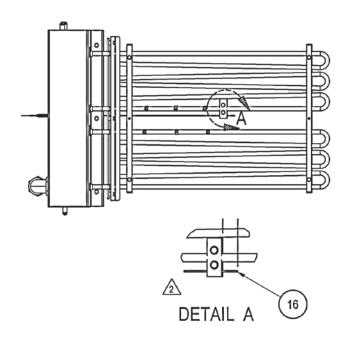
				NI IE	R:
no On	Quantity Component Part	Component Name	Quantity Component Part	Component Name	
)	1 0160 R00	LABEL SERIAL PLATE STD	1 EP18/24-0140 R09	LABEL; BELSHAW LOGO	
, rı	1 618-8000 R01	ELECTRICAL BOX WLDT	1 LBL-0013	LABEL; SUPPLY CONNECT 10AWG	
, ₍	1 618-8002 R00	COVER, ELECTRICAL BOX, WLDT	1 LBL-0014	LABEL; INSTALLATION WARNING	
ro	1 618L-0105	WARNING LABEL	1 MDD-0459	LABEL, WARNING HAZ VOLTAGE	
	1 618L-0125	TILT LATCH	1 P-0001	FRYER BRACKET CLAMP	
. ,	1 618L-0130 R04	HEATER HEAD RETAINING BRKT-LH	1 P-0002	BRKT PLATE, CUTTER MOUNT	
١,,,	1 618L-0131 R03	HEATER HEAD RETAINING BRKT-RH	1 TJ-0184C-2	TEMP CRTL,1/16, 24V, OPK FOR FIELD REPLACEMENT SEE SK-1587	NT SEE SK-1587
h	1 624-0003A	TOGGLE SWITCH DPST 20A SLIP ON	1 U-0008 R21	COLLAR, 0.257, 1PIECE, SS	
rn	1 624-0037	DRAIN TRAY SUPPORT ROD	1 991-0006	CND,1/2 FLEX LA GRAY UA 1/2 GRY	
١,	1 624-0170	CUTTER MOUNT CLAMP BAR-UPPER	2 618L-0143	LABEL, DRAIN VALVE, HANDLE GRAP	
۸/۸	1 624-0174	DRAIN VALVE BALL 1-1/4 NSF	2 624-0007A R13	PROOFING SCREEN, 23 X 23 FINISH: BRIGHT CHROME	ME
0	1 624-1057 R04S	SS FRYER KETTLE ASSY	2 624-0039 R21	SS DRAIN TRAY SUPPORT REST	
90	1 624-1070-1 R00	WIRE HARNESS - OMRON CONTROLLER	2 724G-0203 R09	HANDLE DOOR	
∩1	1 624-1516-240 R02	HEATER HEAD ASSY 240V UL	2 724G-0299 R06	DOOR MGT BRACKET	
	1 624-1700-1 R01	624 FRYER CONTROL ENCL. P1	2 724G-7025	16GA SHIM PLATE .17DIA 1.5 CTR	
C /	1 724G-0088	DRAIN TRAY HINGE SHAFT	2 903-0410.A	SCREW,PN,PH,8-32X3/8 SS	
	1 724G-0146	PILOT LIGHT 25V YELLOW ARCOLECTRIC	2 903-5101	NUT,LOCK NY INS,10-24 SS	
۸ ۱۱	1 724G-0183	SHORTENING CAUTION LABEL	2 903-6455	NUT,ACORN,5/16-18 SS	
D:	1 724G-0204-1	LABEL, TEMPERATURE CONTROL	2 905-2004	SURFACE MOUNT MAGNETIC CATCH PLASTIC 5LB PULL POWER ROHS	ULL POWER ROHS
ah	1 724G-0205	PILOT LIGHT RED 25V	3 MK-0186	CAUTION HOT SURFACE LABEL	
ıtc.	1 724G-0206	2" PLUG BUTTON, NICKEL PLATED 10/PKG	4 618-0513 R13	HANDLE, SCREEN	
D	1 724G-0312	LABEL; INSTALLATION WARNING	4 903-0519SS	SCREW,HHMB,HH,10-24X1/2 SS	
201	1 724G-0313 R03	HINGE SPACER	4 903-0970SS	SCREW,HHMB,1/4-20X1/2 SS	
or:	1 724G-0540	DRAIN TRAY ASSY	4 903-1330	SCREW, HHMB,5/16-18X1 SS	
101	1 724G-0556	EXTENSION ROD ASSY W/HANDLE	4 903-5075SS	NUT,HEX,6-32 SS	
4	1 724G-6006	KNOB, DRAIN VALVE	4 903-5102	NUT,HEX,10-24 SS	
	1 724G-8006	DOOR, LEFT HAND WLDT.	4 903-5201SS	NUT,LOCK ESNA,1/4-20 SS (NYLON)	
	1 724G-8007	DOOR, RIGHT HAND WLDT.	4 903-7529	WASHER, LOCK INT, 1/4 SS	
	1 724G-8009	COVER, TEMP CONTROLLER, DOOR	4 903-7542SS	WASHER, LOCK INT5/16 SS	
	1 724G-8010 R00	CABINET WLDT	10 903-7514	WASHER, LOCK INT, #10 SS	
Г.	1 903-0951.CP	1/4-20X1/4 SKT SET SCR CP LP	14 903-0501SS	SCREW,HHMB,HH,10-24X3/8 SS	
I A 4	1 904-0035	LABEL, ETL LISTED, NSF STD 4	14 903-7516	SCREW, SMS #10X1/2 HWH SS	
^r	1 904-0040	LABEL; ETL LISTED, UL STD 197 STD C22.2			
. ^	1 990-0006	CONNECT, 1/2 STR LIQ-TITE FLX BRIDGEPORT 430-SLT, VMI			
R # 4	1 990-0008	CONNECT,1 STR LIQ-TITE FLX T&B			
	1 990-0014	CONNECT, 1/2 90DEG LIQ-TITE FLX			
7 ^	1 992-0001	GRIP,CORD .250375" C WHT			
~ !	1 992-0002	GRIP,CORD GRIP .375500" D BLU			
_ ,	1 992-0025				
5	1 992-0200	CORD GROMMET SPLIT LOCKING 2" ID FOR 1" FLEX			
	1 DR42-0050A	SWITCH PLATE ON/OFF			

DIAGRAM: 618-1516-240TAB
USE THIS DIAGRAM FOR

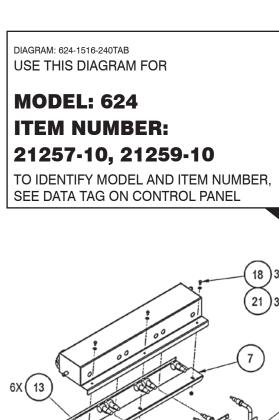
MODEL: 618L ITEM NUMBER:

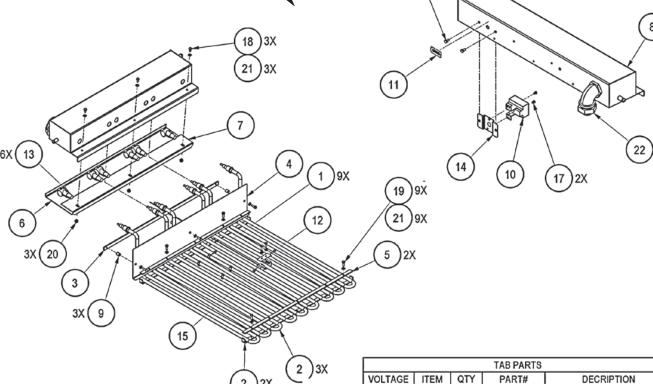
21254-10, 21256-10

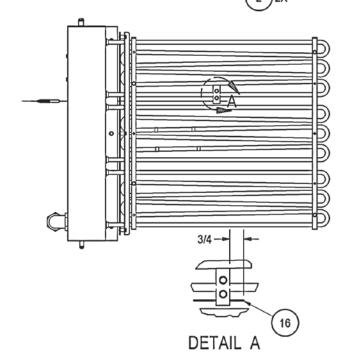




			BILL OF MATERIAL
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	618-8003	HEATER HEAD CASE ASSEMBLY
2	2	618L-0001	ELEMENT TIE BAR - LOWER
3	1	618L-0062	ELEMENT SHIELD
4	1	618L-0063	ELEMENT SHIELD BAR
5	2	618L-0095	ELEMENT TIE BAR- UPPER
6	9	618L-0100	THERM BULB CLIP
7	1	618L-0122	HEATER HEAD BOTTOM
8	1	618L-0123	HEATER HEAD SKIRT
9	3	634-0041	ELEMENT SHIELD SPACER
10	1	FM200-0065M	SWT,HILIM(5.75) USE SK-1024.
11	1	FM200-0066	LABEL; TEMPERATURE CUT OUT
12	1	MK-0275	BULB CLAMP TOP
13	4	MK-0282-2	INSULATOR, ELEMENT TERMINAL, 3PH
14	1	MK-0283	HIGH LIMIT MOUNTING BRACKET
15	1	MK-6001	BULB BRACKET CLAMP, UNIVERSAL
16	(REF)	TCPL-0005	THERMOCOUPLE, TYPE J, .063X18
17	2	903-0302	6-32X1/4 SS SLOT PAN M/S
18	5	903-0501SS	10-24 X 3/8 SS HEX HD MACH SCREW
19	9	903-0528	SST, #10-24 X 0.625 HEX HEAD MACHINE SCREW
20	3	903-5102	10-24 SS HEX NUT
21	12	903-7514	#10 SS INTERNAL TOOTH LOCKWASR
22	1	990-0016	1 CONNEC'T 90 DEG LIQ-TITE FLEX







			TAB PARTS	
VOLTAGE	ITEM	QTY	PART#	DECRIPTION
200/240	2	3	624-0001C	HEATER ELEMENT 200/240V
380/480	2	3	624-0001B	HEATER ELEMENT 380/480V

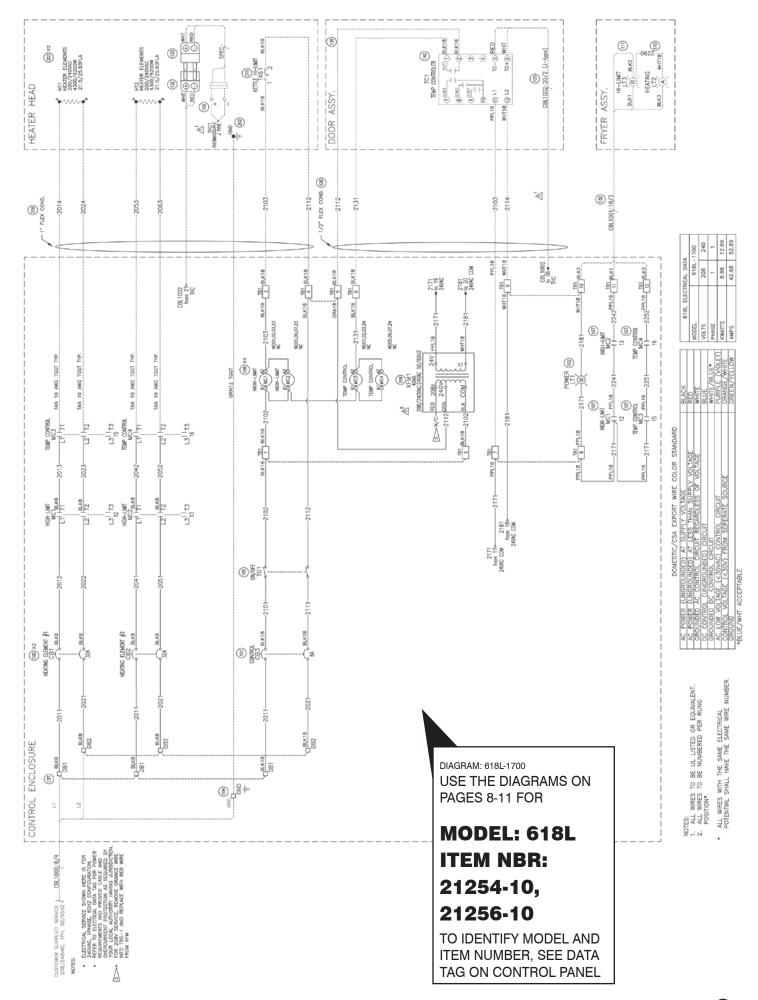
			BILL OF MATERIAL
ITEM	QTY	PART NUMBER	DESCRIPTION
1	9	618L-0100	THERM BULB CLIP
2	2	624-0054	ELEMENT TIE BAR-LOWER
3	1	624-0077	ELEMENT SHIELD BAR
4	1	624-0078	ELEMENT SHIELD
5	2	624-0114	ELEMENT TIE BAR-UPPER
6	1	624-0168	HEATER HEAD BOTTOM
7	1	624-0169	HEATER HEAD SKIRT
8	1	624-8000	HEATER HEAD CASE ASSEMBLY
9	3	634-0041	ELEMENT SHIELD SPACER
10	1	FM200-0065M	SWT,HILIM(5.75) USE SK-1024.
11	1	FM200-0066	LABEL; TEMPERATURE CUT OUT
12	1	MK-0275	BULB CLAMP TOP
13	6	MK-0282-2	INSULATOR, ELEMENT TERMINAL, 3PH
14	1	MK-0283	HIGH LIMIT MOUNTING BRACKET
15	1	MK-6001	BULB BRACKET CLAMP, UNIVERSAL
16	(REF)	TCPL-0005	THERMOCOUPLE, TYPE J, .063X18
17	2	903-0302	6-32X1/4 SS SLOT PAN M/S
18	5	903-0501SS	10-24 X 3/8 SS HEX HD MACH SCREW
19	9	903-0528	SST, #10-24 X 0.625 HEX HEAD MACHINE SCREW
20	3	903-5102	10-24 SS HEX NUT
21	12	903-7514	#10 SS INTERNAL TOOTH LOCKWASR
22	1	990-0016	1 CONNEC'T 90 DEG LIQ-TITE FLEX

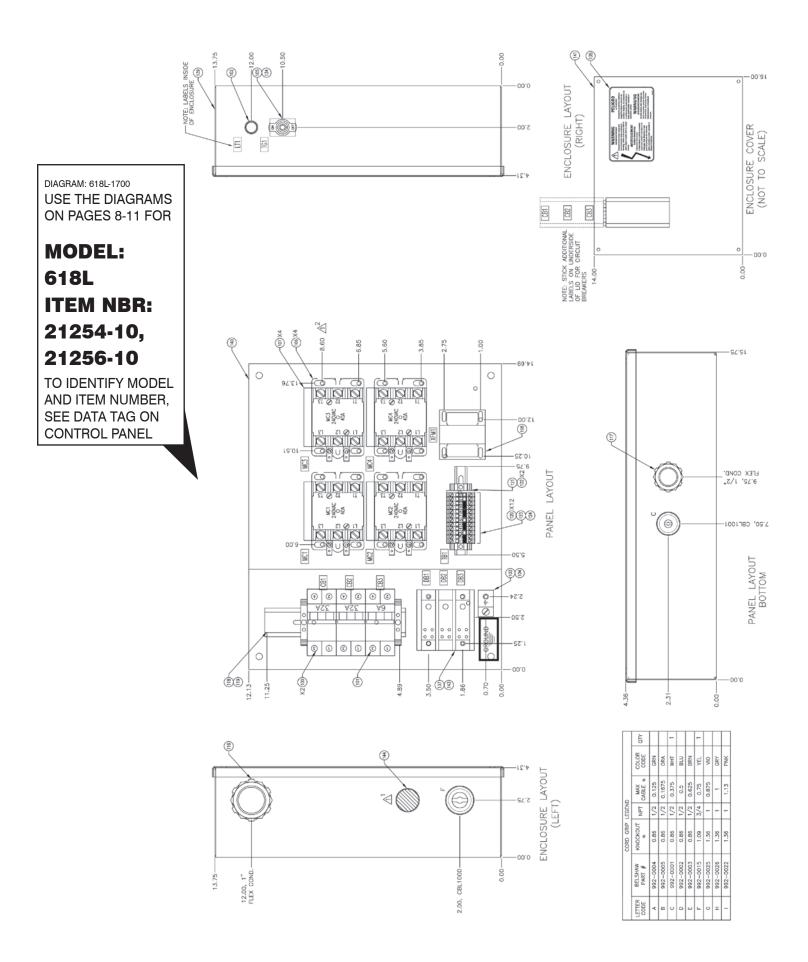
DIAGRAM: 618L-1700 USE THE DIAGRAMS ON PAGES 8-11 FOR

MODEL: 618L ITEM NBR: 21254-10, 21256-10

WIRE/CABLE NO.	WIRE COLORS	PART NO.	WIRE INCHES	CMP1	PIN1	CMP2	PINZ	END1 P/N	END2 P/N
2011	BLK18	995-0450	13	081		CB3		908-0800.R	908-0800.R
2021	BLK18	995-0450	1	DB2		CB3		908-0800.R	908-0800.R
2022	BLK18	995-0450	4	CB1		MC1	7	908-0800.R	990-0560TR
2051	BLK18	995-0450	2	CB2		MC2	7	908-0800.R	990-0560TR
2101	BLK18	995-0450	20	CB3		TG1		908-0800.R	990-0560TR
2102	BLK18	995-0450	8	TB1	1	MC1	A1	908-0800.R	990-0560TR
2102	BLK18	995-0450	2	MC1	A1	MC2	A1	990-0560TR	990-0560TR
2102	BLK18	995-0450	6	MC2	A1	MC3	A1	990-0560TR	990-0560TR
2102	BLK18	995-0450	2	MC3	A1	MC4	A1	990-0560TR	990-0560TR
2102	BLK18	995-0450	20	TG1		TB1	-	990-0560TR	908-0800.R
2104	BLK18	995-0450	80	TB1	23	TAS1	-	908-0800.R	990-0504
2104	BLK18	995-0450	2	MC1	A2	MC2	A2	990-0560TR	990-0560TR
2104	BLK18	995-0450	б	MC1	A2	TB1	23	990-0560TR	908-0800.R
2111	BLK18	995-0450	20	CB3		TG1		908-0800.R	990-0560TR
2112	BLK18	995-0450	20	TC1		TB1	4	990-0560TR	908-0800.R
2112	BLK18	995-0450	80	TB1	4	TAS1	2	908-0800.R	990-0504
2112	BLK18	995-0450	33	TB1	5	TC1	2	908-0800.R	908-0800.R
2131	BLK18	995-0450	4.5	MC3	A2	MC4	A2	990-0560TR	990-0560TR
2131	BLK18	995-0450	14	MC3	A2	TB1	9	990-0560TR	908-0800.R
2131	BLK18	995-0450	33	TB1	9	TC1	-	908-0800.R	908-0800.R
2011	BLK8	995-0392	13	081		CB1		908-0800.R	908-0800.R
2011	BLK8	995-0392	11	081		CB2		908-0800.R	908-0800.R
2012	BLK8	995-0392	4	CB1		MC1	5	908-0800.R	990-0560TR
2013	BLK8	995-0392	2	MC1	T1	MC3	17	990-0560TR	990-0560TR
2021	BLK8	995-0392	13	DB2		CB1		908-0800.R	908-0800.R
2021	ВГКВ	995-0392	13	DB2		CB2		908-0800.R	908-0800.R
2023	BLK8	995-0392	2	MC1	12	MC3	7	990-0560TR	990-0560TR
2041	BLK8	995-0392	S	CB2		MC2	5	908-0800.R	990-0560TR
2042	BLK8	995-0392	2	MC2	=	MC4	5	990-0560TR	990-0560TR
2052	ВГКВ	995-0392	2	MC2	12	MC4	21	990-0560TR	990-0560TR
	GRN12 TGGT	995-0227	80	nuc		5UJ		ı	ı
2171	PPL18	995-0453	33	TB1	7	101	=	908-0800.R	908-0800.R
2171	PPL18	995-0453	18	TB1	8	LTI		908-0800.R	990-0552
2171	PPL18	995-0453	12	TB1	80	MC1		908-0800.R	990-0560TR
2171	PPL18	995-0453	10	MC1		MC3		990-0560TR	990-0560TR
2241	PPL18	995-0453	6	MC1		MC2		990-0560TR	990-0560TR
2242	PPL18	995-0453	3	MC2		1B1	=	990-0560TR	908-0800.R
2251	PPL18	995-0453	,	MC3		MC4	,	990-0560TR	990-0560TR
2252	PPL18	995-0453	\ 8	MC4		181	72	990-0560TR	908-0800.R
2014	TAN10 1661	995-0239	08	NCS.	= \$	III.	< 0	908-0800.K	990-0980
2024	TAN10 1661	995-0239	08	SW S	71		n .	908-0800.K	990-0980
2053	TAN10 TGGT	995-0239	80	MC4	=	HT2	∢ .	908-0800.R	990-0280
2063	IANTO IGGI	995-0239	98 5	MC4	12	ZIH	m	908-0800.K	080-086
2181	WHITE	995-0455	2 2	E 6	c	<u> </u>	2 5	3300-022	308-0800.R
2000	WLT18	995-0455	3 6	Ē		12	2	000-055	990-0552
0.577	2		,	TB1	10	LT3	+	908-0800.R	990-0552
CBL1001	18/3	995-0043	09	TB1	=	LT3	,	908-0800.R	990-0552
				TB1	12	LT2	+	908-0800.R	990-0552
CBI 1003	CDEC	900	13	TC1	5	PLG	ı	908-0800.R	-
CBL100Z	SPEC								

818	6181-1700-1: 618 EDVED CONTROL ENCL D1 208 /240V 10H		
ITEM	TIVOTI: DIS FRIEN CONTROL ENCE. FI 200/2404, IFR	ΛV	BELSHAW PART NO.
100	CIRCUIT BREAKER D CURVE 2P 32A	7	-
101	CIRCUIT BREAKER D CURVE 2P 6A	-	#CBR-0012-6
102	CLEAR PILOT LIGHT 24V AC/DC	-	#PLT-0020
103	LABEL, GROUND, BLK ON GREEN	-	618-0128
104	LUG, AL,SET SCREW,6-2/0 1/4" STUD, VMI	-	618-0131
105	TOGGLE SWITCH DPST 20A SLIP ON	-	624-0003A
106		*	624-0144
107	CTR, AUX 1NO/1NC, 120/240/480V - 3/1.5/0.75A	*	624-0144-1
108	3/240X24VAC,50/6	-	724G-0037B
109	THERMOCOUPLE, TYPE J, W/ 1' LEADS	Æ	#TCPL-0005
119	PILOT LIGHT 25V YELLOW	RE	724G-0146
=	PILOT LIGHT RED 25V	REF	724G-0205
112	8-32X3/8 SS PHILPS HD M/S PAN HEAD	4	903-0410.A
113	1/4-20 SS ESNA LOCK NUT(NYLON)	+	903-520155
114	#10X1/2 SS HEX WASHER HD TEK	4	903-7516
115	CONNECT,1/2 STR LIQ-TITE FLX, VM	REF	9000-066
116	1 CONEC'T STR LIQ-TITE FLX T&B	-	8000-066
117	CONNECT,1/2 SODEG LIQ-TITE FLX	REF	990-0014
118	DIN RAIL 35MMX7.5MWX9.25" LONG	-	990-0260-9.25
119	TB, IEC, END ANCHOR	2	990-0315
120	TB, MINI, 2.5MM, 24A, GRAY	12	990-0329
121	DIN PAIL 15MMX5.5MMX1M	-	990-0344
122	TB, MINI, END ANCHOR	2	990-0345
123	TB, JUMPERS, 10 POLE, MINI	-	990-0346
124	TB, MINI, END BARRIER	-	990-0348
126	CND,1/2 FLEX LA GRAY	REF	991-0006
127	CORD CLAMP, AL250375", 1/2" NPT, WHT	-	992-0001
129	CORD CLAMP, AL, .625750", 3/4" NPT, YEL	-	992-0015
132	THERMOCPLE JACK (F)	-	C200G-0101
133	THERMOCLE PLUG (M)	-	C600G-0226
134	SWITCH PLATE ON/OFF	-	DR42-0050A
135	LABEL, WARNING HAZ VOLTAGE	-	MDD-0459
137	PWR DIST BLK,3P, 175A, 2/0-14 IN, (4)4-14 OUT	-	TM634-0233
138	ELECTRIC BOX, ELEC. OPEN KETTLE	Æ	618-1500 R00
139	ELECTRICAL BOX WLDT	- -	618-8000 R00
140	PRE-WIRE PANEL SUB-ASSY	- -	618-8001 R00
14	TEMP OPT 1 1/15 DAY OPE	-	618-8002 R00
142	L, I / I b, 24v,	监	TJ-0184C-2
3 :	COVER, POWER DISI, BLX	<u>- </u>	#ACS-000Z
144	HOLE SEAL, 1/2 NEMA SK	-	#ENC=0033=1
	618L-1700-2: HEATER HEAD ASSY, UL 240V		
ITEM	DESCRIPTION	Ģ	BELSHAW PART NO.
200	LABEL; DATA PLATE	REF	0160
201	LABEL, GROUND, BLK ON GREEN	쮼	618-0128
202	LUG, AL,SET SCREW,6-2/0 1/4" STUD, VMI	Æ	618-0131
203	ELEMNT 200/240V 4296/6185W	凝	
204	LABEL, ETL LISTED, NSF STD 4	REF	_
205	LABEL; ETL LISTED, UL STD 197 STD C22.2	凝	
206	1 CONECT 90DEG LIQ—TITE FLEX		
207			1
802	T PLEXIBLE CONDUIT UA GRAY UAT—GRY		1
211			FM200-0066
212	ELEM TERMINAL INSULATOR,3 PH	72	Ļ
213	HIGH LIMIT MOUNTING BRACKET	REF	MK-0283-A R01
213	HEATER HEAD ASSY 240V	REF	┡
		4	1





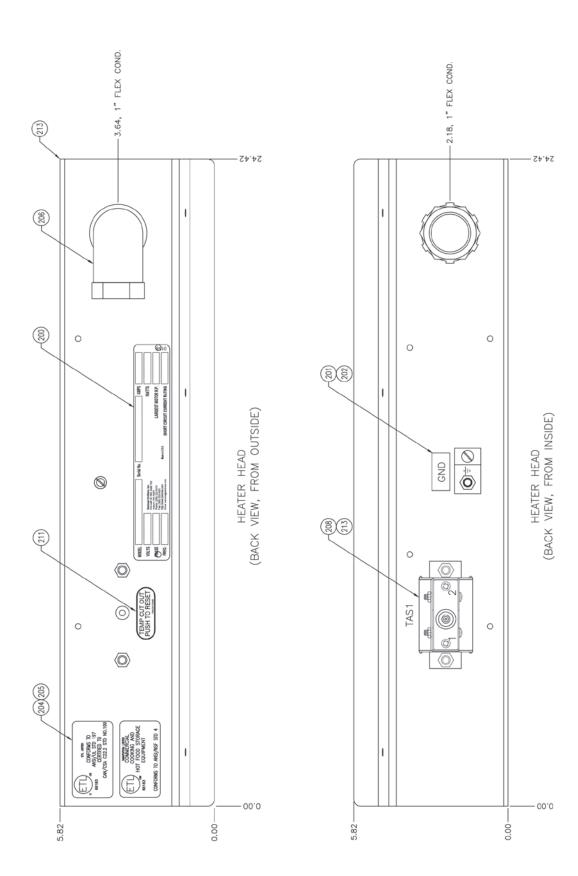


DIAGRAM: 618L-1700 **USE THE DIAGRAMS** ON PAGES 8-11 FOR

MODEL: 618L **ITEM NBR:** 21254-10, 21256-10

WIRE/CABLE NO.	Ě	PART NO.	WIRE INCHES	CMPI	FINA	CMP2	PINZ	END1 P/N	CNDZ L/ IN
2011	BLK10	995-0400	51 :	180		. B			
2011	BLKTO	282-0400	- 4	E 6		ZB2			- 000
2012	0 1 d	995-0400	3	5 5	F	104	:	990-0560TB	SOO_OSOO
2021	R K10	995-0400	13	DB2		8	<u>,</u>	-	
2021	BLK10	995-0400	11	082	,	CB3	,	,	,
2022	BLK10	995-0400	4	CB1	,	MC1	12	,	990-0560TR
2023	BLK10	995-0400	2	WC1	12	MC3	2	990-0560TR	990-0560TR
2031	BLK10	995-0400	13	083		CB2	,	,	,
2031	BLK10	995-0400	12	083	,	CB3	,	,	,
2032	BLK10	995-0400	4	CB2	,	MC1	ដ	1	990-0560TR
2033	BLK10	995-0400	2	MC1	12	MC3	ដ	990-0560TR	990-0560TR
2051	BLK10	995-0400	S	CB2	,	MC2	5	,	990-0560TR
2052	BLK10	995-0400	2	MC2	F	MC4	5	990-0560TR	990-0560TR
2061	BLK10	995-0400	3.5	CB3	,	MC2	77	-	990-0560TR
2062	BLK10	995-0400	2	MC2	12	WC4	2	990-0560TR	990-0560TR
2071	BLK10	995-0400	ь	CB3	,	MC2	ย	1	990-0560TR
2072	BLK10	995-0400	2	MC2	13	MC4	ย	990-0560TR	990-0560TR
2031	BLK18	995-0450	10	DB3	-	CB4	-	-	,
2101	BLK18	995-0450	20	CB4	-	TG1	-	-	990-0560TR
2102	BLK18	995-0450	80	1B1	-	MC1	14	908-0800.R	990-0560TR
2102	BLK18	995-0450	4.5	MC1	A1	MC2	IA	990-0560TR	990-0560TR
2102	BLK18	995-0450	o	MC2	FA	MC3	F4	990-0560TR	990-0560TR
2102	BLK18	995-0450	4.5	MC3	A2	MC4	A2	990-0560TR	990-0560TR
2102	BLK18	995-0450	4.5	MC3	A1	MC4	A1	990-0560TR	990-0560TR
2102	BLK18	995-0450	20	TG1	-	TB1	-	990-0560TR	908-0800.R
2103	BLK18	995-0450	4.5	MC1	A2	MC2	A2	990-0560TR	990-0560TR
2103	BLK18	995-0450	80	<u>В</u>	ы	TAS1	-	908-0800.R	990-0504
2103	BLK18	995-0450	6	MC1	A2	TB1	3	990-0560TR	908-0800.R
2161	BLK18	995-0450	14	MC3	A2	181	9	990-0560TR	908-0800.R
2161	BLK18	995-0450	4.5	MC3	A2	MC4	A2	990-0560TR	990-0560TR
2161	BLK18	995-0450	33	TB1	9	TC1	-	908-0800.R	908-0800.R
2111	LTBLU18	995-0467	21	CB4	-	TG1	-	-	990-0560TR
2112	LTBLU18	995-0450	10	D84		CB4		,	ı
2114	LTBLU18	995-0450	80	TB1	4	TAS1	2	908-0800.R	990-0504
2114	LTBLU18	995-0450	23	TG1	ı	181	4	990-0560TR	908-0800.R
2114	LTBLU18	995-0450	33	TB1	2	101	2	908-0800.R	908-0800.R
2162	PPL18	995-0453	18	TB1	8	LT1	+	908-0800.R	990-0552
2162	PPL18	995-0453	12	TB1	8	MC1	1	908-0800.R	990-0560TR
2162	PPL18	995-0453	10	MC1	-	MC3	-	990-0560TR	990-0560TR
2162	PPL18	995-0453	33	TB1	9	TC1	11	908-0800.R	908-0800.R
2231	PPL18	995-0453	6	MC1	-	MC2	-	990-0560TR	990-0560TR
2232	PPL18	995-0453	r	MC2		TB1	11	990-0560TR	908-0800.R
2241	PPL18	995-0453	7	MC3	,	MC4	,	990-0560TR	990-0560TR
2242	PPL18	995-0453	6.5	MC4		181	12	990-0560TR	908-0800.R
2014	TGGT10	995-0239	80	MC3	רו	HT1	¥	990-0560TR	890-086
2024	TGGT10	995-0239	80	MC3	T2	HT1	89	990-0560TR	990-0580
2034	TGGT10	995-0239	80	MC3	13	HT2	4	990-0560TR	990-0580
2053	TCCT10	995-0239	80	MC4	F	HT2	ω	990-0560TR	990-0580
2063	TGGT10	995-0239	80	MC4	12	Ę	∢	990-0560TR	890-0890
2073	TGGT10	995-0239	80	MC4	17	EE.	80	990-0560TR	890-0890
	GRN12 TGGT	995-0227		FING		PINC		ı	1
2181	WHT18	995-0455	18	5		192	9	990-0552	908-0800.R
2181	WHT18	995-0455	33	181	6	101	12	908-0800.R	908-0800.R
CBL1002	RED	990-1006	33	121	s c	P.C	,	908-0800.R	
	WHI		0	5 6	: ام	2 E	+	908-0800.R	- 000
	BLK		09	181	-	LIS	+	908-0800.R	10900-088
	č	1000	0	į.	٠	1.13		000000000000000000000000000000000000000	OTO OFFICE

624-	624-1700-1: 624 FRYER CONTROL ENCL. P1 208-240V			
ITEM	DESCRIPTION	0	QTY BELSHAW PART NO.	oʻ
9	CIRCUIT BREAKER D CURVE 2P 32A		3 #CBR-0012-32	١,,
101	CIRCUIT BREAKER D CURVE 2P 6A		1 #CBR-0012-6	
102	CLEAR PILOT LIGHT 24V AC/DC		1 #PLT-0020	ı
103	LABEL, GROUND, BLK ON GREEN		1 618-0128	
104	LUG, AL,SET SCREW,6-2/0 1/4" STUD, VMI		1 618-0131	l
105	TOGGLE SWITCH DPST 20A SLIP ON		1 624-0003A	
106	MAGN CONTACR 40A 208/240 COIL 50A AC-1		4 624-0144	l
107	CTR, AUX 1NO/1NC, 120/240/480V - 3/1.5/0.75A		4 624-0144-1	
50	XFM,40VA,208/240X24VAC,50/60HZ		1 724G-0037B	
109	THERMOCOUPLE, TYPE J, W/ 1' LEADS	2	REF #TCPL-0005	
110	PLOT LIGHT 25V YELLOW	02	REF 724G-0146	
Ξ	PILOT LIGHT RED 25V	02	REF 724G-0205	
112	8-32X3/8 SS PHILIPS HD M/S PAN HEAD		4 903-0410.A	ı
113	1/4-20 SS ESNA LOCK NUT(NYLON)		4 903-5201SS	
114	#10X1/2 SS HEX WASHER HD TEK		4 903-7516	ı
115	CONNECT,1/2 STR LIQ-TITE FLX, VMI	_	REF 990-0006	
116	1 CONEC'T STR LIQ-TITE FLX T&B		1 990-0008	
117	CONNECT,1/2 90DEG LIQ-TITE FLX		REF 990-0014	l
118	DIN RAIL 35MMX7.5MMX9.25" LONG		1 990-0260-9.25	١,,
119	TB, IEC, END ANCHOR		2 990-0315	l
120	TB, MINI, 2.5MM, 24A, GRAY		12 990-0329	ı
121	DIN RAIL 15MMX5.5MMX1M		1 990-0344	ı
122	TB, MINI, END ANCHOR		2 990-0345	ı
123	TB, JUMPERS, 10 POLE, MINI		L	ı
124	TB, MINI, END BARRIER		1 990-0348	ı
125				
126	CND,1/2 FLEX LA GRAY	2	REF 991-0006	
127	CORD CLAMP, AL, .250375", 1/2" NPT, WHT		1 992-0001	Ш
128				
129	CORD CLAMP, AL, .625750", 3/4" NPT, YEL		1 992-0015	
130				
131				
132	THERMOCPLE JACK (F)		1 C200G-0101	
133	THERMOCLE PLUG (M)		1 C600G-0226	
134	SMITCH PLATE ON/OFF		1 DR42-0050A	
135	LABEL, WARNING HAZ VOLTAGE		1 MDD-0459	
137	PWR DIST BLK,3P, 175A, 2/0-14 IN, (4)4-14 OUT		1 TM634-0233	
138	ELECTRIC BOX, ELEC. OPEN KETTLE		REF 618-1500 R00	_
139	ELECTRICAL BOX WLDT		1 618-8000 R00	_
140	PRE-WIRE PANEL SUB-ASSY		1 618-8001 R00	
141	COVER, ELECTRICAL BOX, WLDT		1 618-8002 R00	_
142	TEMP CRTL,1/16, 24V, OPK		REF TJ-0184C-2	
143	COVER, POWER DIST. BLK		1 #ACS-0002	
144	HOLE SEAL, 1/2" NEMA 3R		1 #ENC-0035-1	
	MALO III MONT TIERALD IN OVER 110			П
	624-1700-2: HEATER HEAD ASSY, UL 240V			

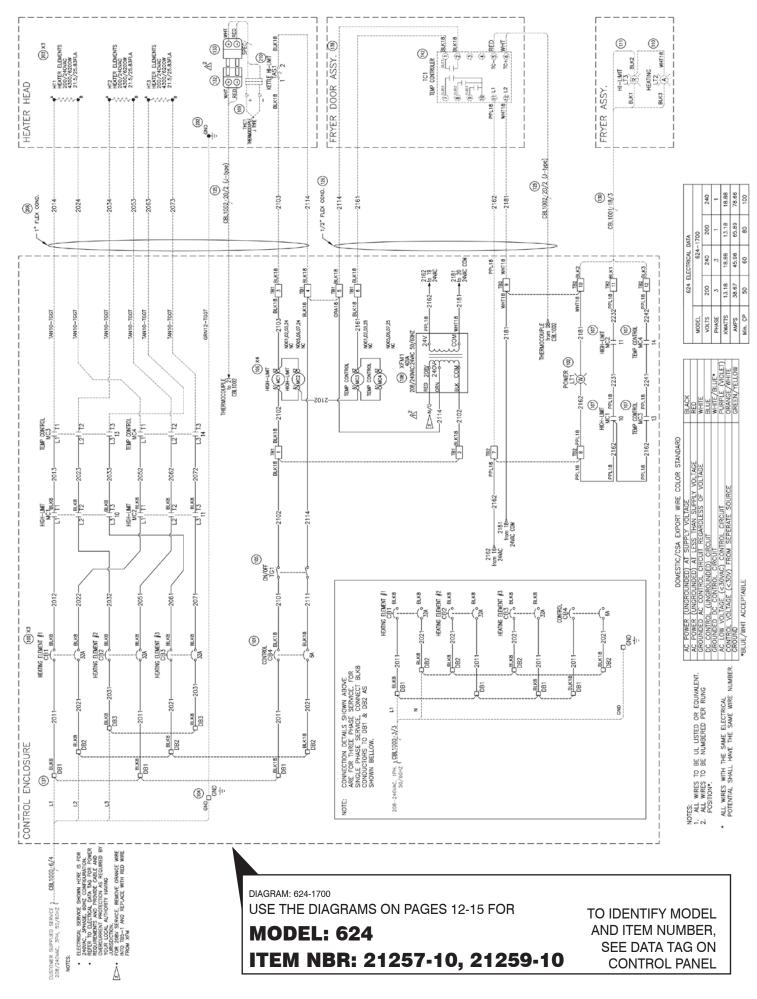
ľ			
Ē	DESCRIPTION	YIID OIL	BELSHAW PART NO.
200	LABEL; DATA PLATE	REF	160
201	LABEL, GROUND, BLK ON GREEN	REF	618-0128
202	LUG, AL,SET SCREW,6-2/0 1/4" STUD, VMI	REF	618-0131
203	ELEMNT 200/240V 4296/6185W	REF	624-00010
204	LABEL, ETL USTED, NSF STD 4	REF	904-0035
205	LABEL; ETL LISTED, UL STD 197 STD C22.2	REF	904-0040
208	1 CONEC'T 90DEG LIQ-TITE FLEX	REF	990-0016
202	TERM HITEMP UN RING, #10 16-14	REF	990-0582
208	1 FLEXIBLE CONDUIT UA GRAY UA1-GRY	REF	991-0014
Г			
210	SWT, HILIN, 125VA, 2HP@250VAC, 450F	REF	FM200-0065M
211	LABEL, TEMP CUTOUT	REF	FM200-0066
212	ELEM TERMINAL INSULATOR,3 PH	REF	MK-0282-2
213	HIGH LIMIT MOUNTING BRACKET	REF	MK-0283-A R01

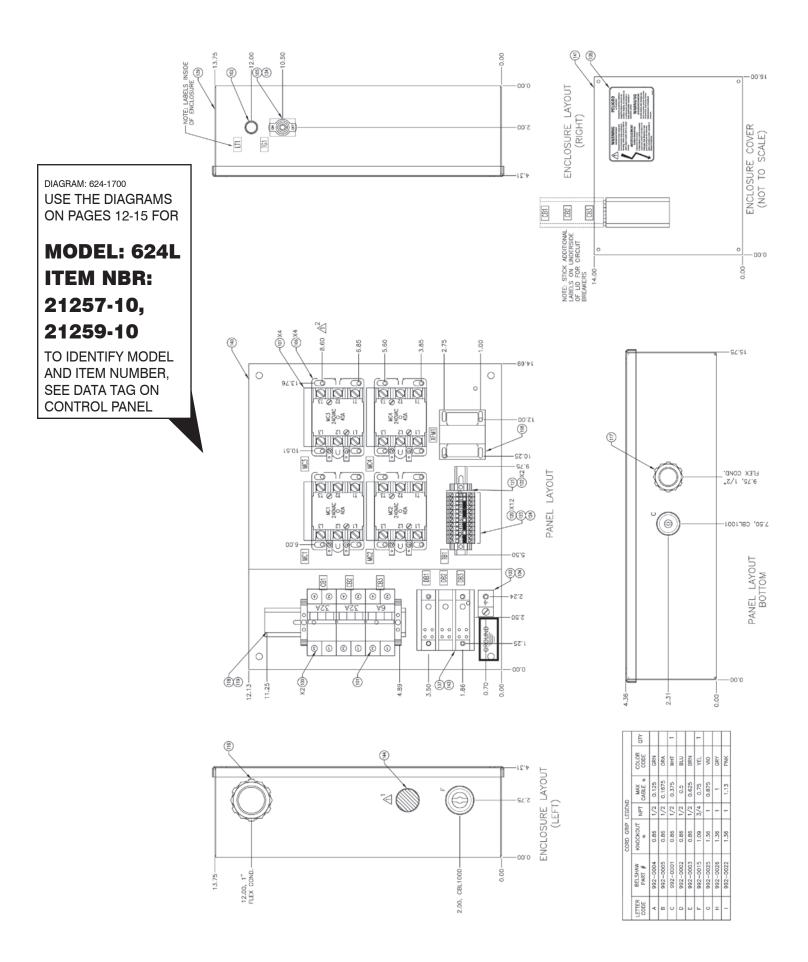
DIAGRAM: 624-1700

USE THE DIAGRAMS ON PAGES 12-15 FOR

MODEL: 624

ITEM NBR: 21257-10, 21259-10





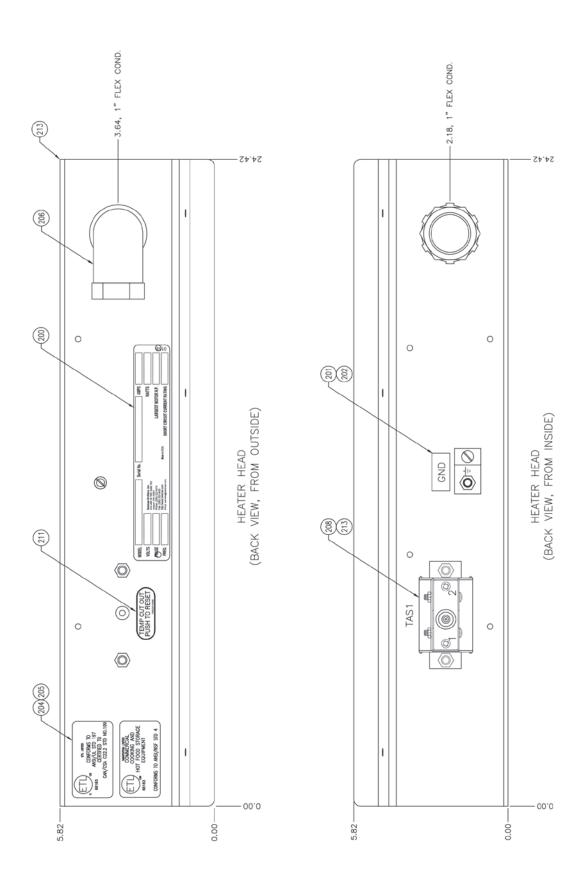


DIAGRAM: 624-1700 **USE THE DIAGRAMS** ON PAGES 12-15 FOR

MODEL: 624 ITEM NBR: 21257-10, 21259-10



Belshaw!

Belshaw Adamatic Bakery Group

Limited Warranty / Return Policy

Subject to the terms and limitations set forth in this limited warranty ("Limited Warranty"), Belshaw Adamatic Bakery Group (also referred to as "the Manufacturer") warrants to the original purchaser ("Purchaser") of Manufacturer's equipment and parts ("Products"), Belshaw Adamatic Bakery Group's manufacture and assembly of Products to be free from defects in workmanship and material which would result in product failure under normal use and service. Belshaw Adamatic Bakery Group's entire liability under this Limited Warranty is limited to either repairing or replacing at Manufacturer's factory or on Purchaser's premises, at Belshaw Adamatic Bakery Group's option, any Products purchased by Purchaser which shall be determined by the Manufacturer to be defective. If necessary to return Products to Manufacturer's factory, Products must be shipped by Purchaser with transportation charges prepaid by Purchaser.

Belshaw Adamatic Bakery Group reserves the right to make changes in design or add any improvement to its Products at any time without incurring any obligations to install the same on Products previously sold

Possession, use or operation of Products sold hereunder for any other than their designed purpose, or use of Products which are in poor repair, modified, improperly operated, or neglected, is done at the Purchaser's risk. Belshaw Adamatic Bakery Group hereby disclaims any liability for these actions and shall not be liable for defects in or for any damages or loss to any property which is attributable to such actions.

Under no circumstances shall Belshaw Adamatic Bakery Group be liable for any indirect, special, incidental, or consequential damages arising out of, or from the use of its Products by Purchaser, its assignees, employees, agents or customers.

THIS LIMITED WARRANTY SHALL BE PURCHASER'S SOLE AND EXCLUSIVE REMEDY WITH RESPECT TO DEFECTIVE PRODUCTS.

Warranty Period

This Limited Warranty covers Products manufactured by Belshaw Adamatic Bakery Group and sold by Belshaw Adamatic Bakery Group or its authorized distributor ("Distributor") or authorized dealer ("Dealer"), and this Limited Warranty shall extend for a period of one (1) year from date of shipment to Purchaser, and to the original Purchaser only.

Limited Warranty

With respect to products not manufactured by Belshaw Adamatic Bakery Group, warranty coverage shall be limited to the warranty of the original manufacturer of the product, or the Belshaw Adamatic Bakery Group Limited Warranty, whichever is the lesser coverage period.

Replacement Products provided under the terms of this Limited Warranty are warranted for the remainder of the original warranty period applicable to the Product.

Exclusions

This Limited Warranty excludes from its coverage and does not apply to: (a) solenoid and relay coils; (b) lamps; (c) "O" rings; (d) belts; and (e) impellers. This Limited Warranty also excludes the cost of labor for removing and replacing Products subject to a warranty claim, other than the labor incurred directly by the Manufacturer when, in Belshaw Adamatic Bakery Group's opinion, a repair of the Product by the Manufacturer is justified.

Warranty Claims

In case of warranty claims relating to your Product, you must follow the instructions below.

Report Claims to Your Authorized Distributor or Dealer or to Belshaw Adamatic Bakery Group

As soon as you discover a problem, contact the Distributor or Dealer from whom you purchased the Product or Belshaw Adamatic Bakery Group. Your Distributor or Dealer will notify Belshaw Adamatic Bakery Group for you. Only Belshaw Adamatic Customer Service can approve or authorize warranty claims.

You must state the following:

- 1. Your name, company name, and telephone number
- The location, phone number, and contact name where the Product is located
- 3. The invoice number and date of purchase of the Product
- The Model and Serial Number of the Product, as written on the data tag attached to the Product
- 5. A description of the problem and how it occurred

Shipping Damage and Missing Items

Damage to the Packaging or Crate. On delivery, promptly check all packages thoroughly for any sign of damage. In cases of visible damage, always note the damage on the Delivery Receipt. Failure to note damage is taken by the Freight Carrier to mean that the package is in good condition at time of receipt, and can result in denial of a Freight Claim. Take photographs that clearly show the damage.

Damage to Products. If you find any damaged Product inside the shipment, photograph the damage both inside and outside of the package. Do not throw the packaging away. Photos of the package and contents are needed to show the condition of the Product at the time it was received.

Missing Items. As soon as you believe any items to be missing from a shipment, promptly report this to the Distributor or Dealer from whom the Product was purchased or to Belshaw Adamatic Bakery Group. If possible, photograph the entire contents of the delivery and email this to your Distributor or Dealer, or to Belshaw Adamatic Customer Service at service@belshaw.com.

Returning Products to Belshaw Adamatic Bakery Group

Under the terms of the Limited Warranty, you may be asked to return to Belshaw Adamatic Bakery Group any Product that is the subject of a warranty claim. These Products must be clearly labeled with a Return Goods Authorization Number ("RGA Number") given to you by your Distributor or Dealer, or by Belshaw Adamatic Customer Service. Products received without an RGA Number will not be processed. All Products must be shipped freight prepaid by the Purchaser to Belshaw Adamatic Bakery Group at the address below.

Contacting Belshaw Adamatic Bakery Group

At any time, you can contact Belshaw Adamatic Bakery Group customer service for assistance:

Belshaw Adamatic Bakery Group Customer Service 814 44th St. NW, Suite 103, Auburn WA 98001, USA

Phone: 800-578-2547 (USA/ Canada) or (+1)253-886-5340

(Worldwide)

Èmail: service@belshaw.com

Office Hours: Monday - Friday, 6am to 4pm, USA Pacific Time

Belshaw Bros., Inc. doing business as Belshaw Adamatic Bakery Group www.belshaw-adamatic.com, www.belshaw.com
Revised 08/31/15

Limited Warranty

Phone (+1) 253-886-5340 Page 1 of 1





Serving bakeries for 95 years

BELSHAW ADAMATIC BAKERY GROUP 814 44th Street NW, Suite 103 Auburn, WA 98001 USA

> SUPPORT 1-800-BELSHAW 1-800-578-2547 (USA/Canada)

(+1) 206-322-5474 (Worldwide)

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