

Model 220

Batch Freezer

Operating Instructions

028763-M



**5/99 (Original Publication)
(Updated 8/6/12)**

Complete this page for quick reference when service is required:

Taylor Distributor: _____

Address: _____

Phone: _____

Service: _____

Parts: _____

Date of Installation: _____

Information found on the data label:

Model Number: _____

Serial Number: _____

Electrical Specs: Voltage _____ Cycle _____

Phase _____

Maximum Fuse Size: _____ A

Minimum Wire Ampacity: _____ A

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Taylor Company
750 N. Blackhawk Blvd.
Rockton, IL 61072



Table of Contents

Section 1	To the Installer	1
	Installer Safety	1
	Site Preparation	1
	Air Cooled Units	1
	Water Connections (Water Cooled Units Only)	2
	Electrical Connections	2
	Beater Rotation	3
	Refrigerant	3
Section 2	To the Operator	4
	Compressor Warranty Disclaimer	4
Section 3	Safety	5
Section 4	Operator Parts Identification	7
	Beater Door Assembly	8
	Accessories	9
Section 5	Important: To the Operator	10
	Symbol Definitions	10
	Control Switch	10
	Dial Light	10
	Temperature Control	10
	Reset Mechanism	10
Section 6	Operating Procedures	11
	Assembly	11
	Sanitizing	15
	Priming	17
	Overrun	19

Drawing Product	20
Closing Procedures	20
Rinsing	20
Cleaning/Sanitizing	21
Disassembly	21
Brush Cleaning	21
Section 7 Important: Operator Checklist	23
During Cleaning and Sanitizing	23
Troubleshooting Bacterial Count	23
Regular Maintenance Checks	23
Winter Storage	24
Section 8 Troubleshooting Guide	25
Section 9 Parts Replacement Schedule	27
Section 10 Parts List	28
Wiring Diagrams	33

Note: Continuing research results in steady improvements; therefore, information in this manual is subject to change without notice.

Note: Only instructions originating from the factory or its authorized translation representative(s) are considered to be the original set of instructions.

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Section 1

To the Installer

The following are general installation instructions. For complete installation details, please see the check out card.



This unit has many sharp edges that can cause severe injuries.

Installer Safety



In all areas of the world, equipment should be installed in accordance with existing local codes. Please contact your local authorities if you have any questions.

Care should be taken to ensure that all basic safety practices are followed during the installation and servicing activities related to the installation and service of Taylor equipment.

- Only authorized Taylor service personnel should perform installation and repairs on the equipment.
- Authorized service personnel should consult OSHA Standard 29CFR1910.147 or the applicable code of the local area for the industry standards on lockout/tagout procedures before beginning any installation or repairs.
- Authorized service personnel must ensure that the proper PPE is available and worn when required during installation and service.
- Authorized service personnel must remove all metal jewelry, rings, and watches before working on electrical equipment.



The main power supply(s) to the freezer must be disconnected prior to performing any repairs. Failure to follow this instruction may result in personal injury or death from electrical shock or hazardous moving parts as well as poor performance or damage to the equipment.

Note: All repairs must be performed by an authorized Taylor Service Technician.

Site Preparation

Review the area the unit is to be installed in before uncrating the unit making sure that all possible hazards the user or equipment may come into have been addressed.

For Indoor Use Only: This unit is designed to operate indoors, under normal ambient temperatures of 70°-75°F (21°-24°C). The freezer has successfully performed in high ambient temperatures of 104° (40°C) at reduced capacities.



This unit must **NOT** be installed in an area where a water jet or hose can be used. **NEVER** use a water jet or hose to rinse or clean the unit. Failure to follow this instruction may result in electrocution.



This unit must be installed on a level surface to avoid the hazard of tipping. Extreme care should be taken in moving this equipment for any reason. Two or more persons are required to safely move this unit. Failure to comply may result in personal injury or equipment damage.

Uncrate the unit and inspect it for damage. Report any damage to your Taylor Distributor.

This piece of equipment is made in the USA and has USA sizes of hardware. All metric conversions are approximate and vary in size.

Air Cooled Units

DO NOT obstruct air intake and discharge openings:

Air cooled units require a minimum of 3" (76 mm) of clearance around **all** sides of the freezer and 7-1/2" (191 mm) on the bottom to allow for adequate air flow across the condenser(s). Install the deflector provided to prevent recirculation of warm air. Failure to allow adequate clearance can reduce the refrigeration capacity of the freezer and possibly cause permanent damage to the compressor.

Water Connections

(Water Cooled Units Only)

An adequate cold water supply must be provided with a hand shut-off valve. On the underside rear of the base pan, two 3/8" I.P.S. water connections for inlet and outlet have been provided for easy hook-up. One half inch inside diameter water lines should be connected to the machine. (Flexible lines are recommended, if local codes permit.) Depending on local water conditions, it may be advisable to install a water strainer to prevent foreign substances from clogging the automatic water valve. There will be only one water "in" and one water "out" connection. **DO NOT** install a hand shut-off valve on the water "out" line! Water should always flow in this order: first, through the automatic water valve; second, through the condenser; and third, through the outlet fitting to an **open trap drain**.



A back flow prevention device is required on the incoming water connection side. Please refer to the applicable National, State, and local codes for determining the proper configuration.

Electrical Connections

In the United States, this equipment is intended to be installed in accordance with the National Electrical Code (NEC), ANSI/NFPA 70-1987. The purpose of the NEC code is the practical safeguarding of persons and property from hazards arising from the use of electricity. This code contains provisions considered necessary for safety. In all other areas of the world, equipment should be installed in accordance with the existing local codes. Please contact your local authorities.



Each unit requires one power supply for each data label on the unit. Check the data label(s) on the freezer for branch circuit overcurrent protection or fuse, circuit ampacity, and other electrical specifications. Refer to the wiring diagram provided inside of the control box for proper power connections.



CAUTION: THIS EQUIPMENT MUST BE PROPERLY GROUNDED! FAILURE TO DO SO CAN RESULT IN SEVERE PERSONAL INJURY FROM ELECTRICAL SHOCK!



This unit is provided with an equipotential grounding lug that is to be properly attached to the rear of the frame by the authorized installer. The installation location is marked by the equipotential bonding symbol (5021 of IEC 60417-1) on both the removable panel and the equipments frame.



- Stationary appliances which are not equipped with a power cord and a plug or another device to disconnect the appliance from the power source must have an all-pole disconnecting device with a contact gap of at least 3mm installed in the external installation.
- Appliances that are permanently connected to fixed wiring and for which leakage currents may exceed 10 mA, particularly when disconnected or not used for long periods, or during initial installation, shall have protective devices such as a GFI, to protect against the leakage of current, installed by the authorized personnel to the local codes.
- Supply cords used with this unit shall be oil-resistant, sheathed flexible cable not lighter than ordinary polychloroprene or other equivalent synthetic elastomer-sheathed cord (Code designation 60245 IEC 57) installed with the proper cord anchorage to relieve conductors from strain, including twisting, at the terminals and protect the insulation of the conductors from abrasion.

Beater Rotation



Beater rotation must be clockwise as viewed looking into the freezing cylinder.

Note: The following procedures must be performed by an authorized Taylor service technician.

To correct the rotation on a three-phase unit, interchange any two incoming power supply lines at freezer main terminal block only.

To correct rotation on a single-phase unit, change the leads inside the beater motor. (Follow the diagram printed on the motor.)

Electrical connections are made directly to the terminal block provided in the main control box located in the left lower side panel.

Refrigerant



In consideration of our environment, Taylor proudly uses only earth friendly HFC refrigerants. The HFC refrigerant used in this unit is R404A. This refrigerant is generally considered non-toxic and non-flammable, with an Ozone Depleting Potential (ODP) of zero (0).

However, any gas under pressure is potentially hazardous and must be handled with caution. NEVER fill any refrigerant cylinder completely with liquid. Filling the cylinder to approximately 80% will allow for normal expansion.



Use only R134a refrigerant that conforms to the AHI standard 700 specification. The use of any other refrigerant may expose users and operators to unexpected safety hazards.



Refrigerant liquid sprayed onto the skin may cause serious damage to tissue. Keep eyes and skin protected. If refrigerant burns should occur, flush immediately with cold water. If burns are severe, apply ice packs and contact a physician immediately.



Taylor reminds technicians to be cautious of government laws regarding refrigerant recovery, recycling, and reclaiming systems. If you have any questions regarding these laws, please contact the factory Service Department.



WARNING: R404A refrigerant used in conjunction with polyolester oils is extremely moisture absorbent. When opening a refrigeration system, the maximum time the system is open must not exceed 15 minutes. Cap all open tubing to prevent humid air or water from being absorbed by the oil.

Section 2

To the Operator

The freezer you have purchased has been carefully engineered and manufactured to give you dependable operation. Your Taylor freezer, when properly operated and cared for, will produce a consistent quality product. Like all mechanical products, this machine will require cleaning and maintenance. A minimum amount of care and attention is necessary if the operating procedures outlined in this manual are followed closely.

This Operator's Manual should be read before operating or performing any maintenance on your equipment.

Your Taylor freezer will NOT eventually compensate and correct for any errors during the set-up or filling operations. Thus, the initial assembly and priming procedures are of extreme importance. It is strongly recommended that all personnel responsible for the equipment's operation review these procedures in order to be properly trained and to make sure that there is no confusion.

In the event that you should require technical assistance, please contact your local authorized Taylor Distributor.

Note: Warranty is valid only if the parts are authorized Taylor parts, purchased from an authorized Taylor Distributor, and the required service work is provided by an authorized Taylor service technician. Taylor reserves the right to deny warranty claims on equipment or parts if non-approved parts or refrigerant were installed in the machine, system modifications were performed beyond factory recommendations, or it is determined that the failure was caused by neglect or abuse.

Note: Constant research results in steady improvements; therefore, information in this manual is subject to change without notice.



If the crossed out wheeled bin symbol is affixed to this product, it signifies that this product is compliant with the EU Directive as well as other similar legislation in effect after August 13, 2005. Therefore, it must be collected separately after its use is completed, and cannot be disposed as unsorted municipal waste.

The user is responsible for returning the product to the appropriate collection facility, as specified by your local code.

For additional information regarding applicable local laws, please contact the municipal facility and/or local distributor.

Compressor Warranty Disclaimer

The refrigeration compressor(s) on this machine are warranted for the term indicated on the warranty card accompanying this machine. However, due to the Montreal Protocol and the U.S. Clean Air Act Amendments of 1990, many new refrigerants are being tested and developed, thus seeking their way into the service industry. Some of these new refrigerants are being advertised as drop-in replacements for numerous applications. It should be noted that, in the event of ordinary service to this machine's refrigeration system, **only the refrigerant specified on the affixed data label should be used.** The unauthorized use of alternate refrigerants will void your compressor warranty. It will be the owner's responsibility to make this fact known to any technician he employs.

It should also be noted that Taylor does not warrant the refrigerant used in its equipment. For example, if the refrigerant is lost during the course of ordinary service to this machine, Taylor has no obligation to either supply or provide its replacement either at billable or unbillable terms. Taylor does have the obligation to recommend a suitable replacement if the original refrigerant is banned, obsoleted, or no longer available during the five year warranty of the compressor.

Taylor will continue to monitor the industry and test new alternates as they are being developed. Should a new alternate prove, through our testing, that it would be accepted as a drop-in replacement, then the above disclaimer would become null and void. To find out the current status of an alternate refrigerant as it relates to your compressor warranty, call the local Taylor Distributor or the Taylor Factory. Be prepared to provide the Model/Serial Number of the unit in question.

We, at Taylor Company, are concerned about the safety of the operator when he or she comes in contact with the freezer and its parts. Taylor has gone to extreme efforts to design and manufacture built-in safety features to protect both you and the service technician. As an example, warning labels have been attached to the freezer to further point out safety precautions to the operator.



IMPORTANT - Failure to adhere to the following safety precautions may result in severe personal injury or death. Failure to comply with these warnings may damage the machine and its components. Component damage will result in part replacement expense and service repair expense.



DO NOT operate the freezer without reading this Operator Manual. Failure to follow this instruction may result in equipment damage, poor freezer performance, health hazards, or personal injury.



Per IEC 60335-1 and its part 2 standards, “This appliance is to be used only by trained personnel. It is not intended for use by children or people with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless given supervision or instruction concerning the use of the appliance by a person responsible for their safety.”



This unit is provided with an equipotential grounding lug that is to be properly attached to the rear of the frame by the authorized installer. The installation location is marked by the equipotential bonding symbol (5021 of IEC 60417-1) on both the removable panel and the equipments frame.



DO NOT use a water jet to clean or rinse the freezer. Failure to follow these instructions may result in serious electrical shock.



- **DO NOT** operate the freezer unless it is properly grounded.
- **DO NOT** operate the freezer with larger fuses than specified on the freezer data label.
- **DO NOT** attempt any repairs unless the main power supply to the freezer has been disconnected. Contact your local authorized Taylor Distributor for service.
- Stationary appliances which are not equipped with a power cord and a plug or another device to disconnect the appliance from the power source must have an all-pole disconnecting device with a contact gap of at least 3mm installed in the external installation.
- Appliances that are permanently connected to fixed wiring and for which leakage currents may exceed 10 mA, particularly when disconnected or not used for long periods, or during initial installation, shall have protective devices such as a GFI, to protect against the leakage of current, installed by the authorized personnel to the local codes.
- Supply cords used with this unit shall be oil-resistant, sheathed flexible cable not lighter than ordinary polychloroprene or other equivalent synthetic elastomer-sheathed cord (Code designation 60245 IEC 57) installed with the proper cord anchorage to relieve conductors from strain, including twisting, at the terminals and protect the insulation of the conductors from abrasion.

Failure to follow these instructions may result in electrocution. Contact your local authorized Taylor Distributor for service.



- **DO NOT** allow untrained personnel to operate this machine.
- **DO NOT** operate the freezer unless all service panels and access doors are restrained with screws.
- **DO NOT** remove any internal operating parts (examples: freezer door, beater, scraper blades, etc.) unless all control switches are in the OFF position.

Failure to follow these instructions may result in severe personal injury to fingers or hands from hazardous moving parts.



This unit has many sharp edges that can cause severe injuries.

- **DO NOT** put objects or fingers in the door spout. This may contaminate the product and cause severe personal injury from blade contact.
- **USE EXTREME CAUTION** when removing the beater assembly. The scraper blades are very sharp.



This freezer must be placed on a level surface. Failure to comply may result in personal injury or equipment damage.



Cleaning and sanitizing schedules are governed by your state or local regulatory agencies and must be followed accordingly. Please refer to the cleaning section of this manual for the proper procedure to clean this unit.

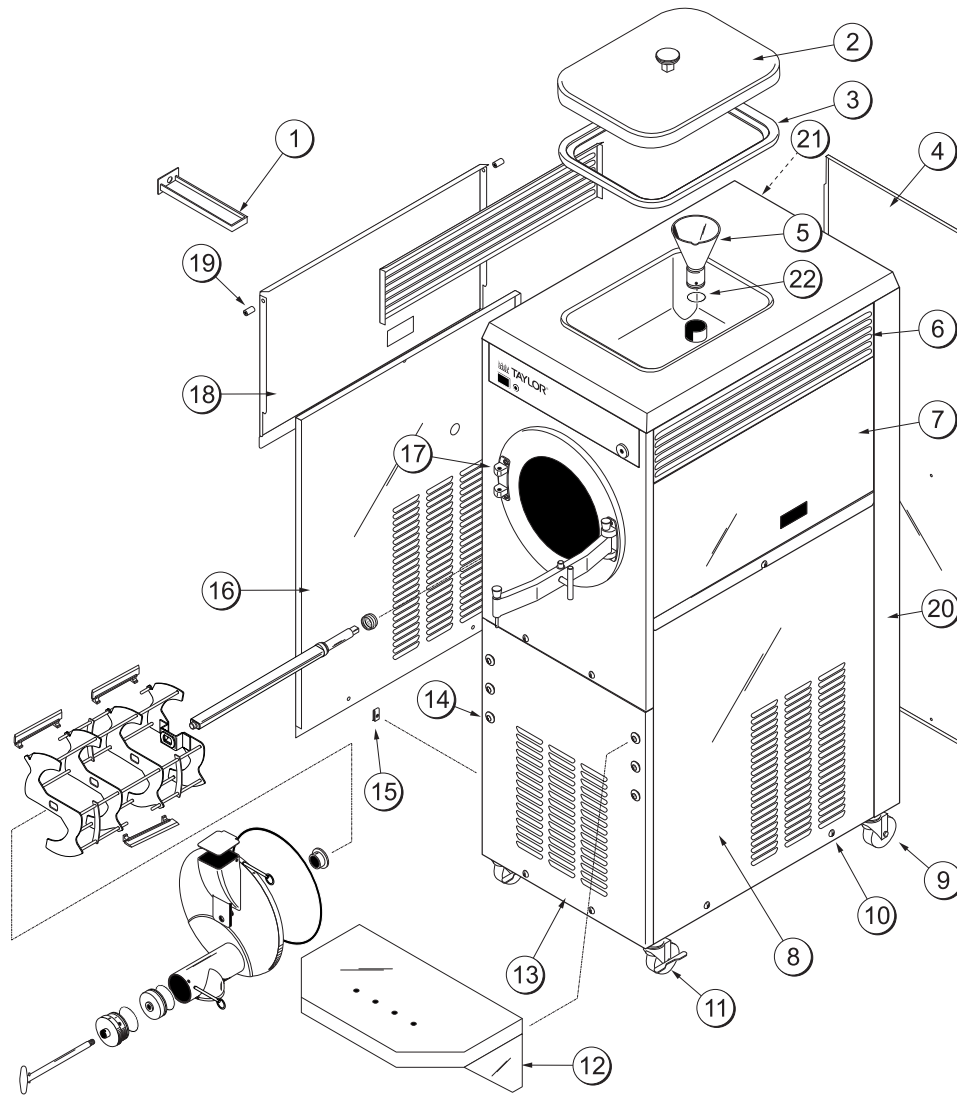
DO NOT obstruct air intake and discharge openings: 3" (76 mm) minimum air space on front, rear and sides, and 7-1/2" (191 mm) on the bottom. The deflector should be installed to prevent recirculation of warm air. Failure to follow this instruction may cause poor freezer performance and damage to the machine.

For Indoor Use Only: This unit is designed to operate indoors, under normal ambient temperatures of 70° - 75°F (21° - 24°C). The freezer has successfully performed in high ambient temperatures of 104° (40°C) at reduced capacities.

NOISE LEVEL: Airborne noise emission does not exceed 78 dB(A) when measured at a distance of 1.0 meter from the surface of the machine and at a height of 1.6 meters from the floor.

Section 4

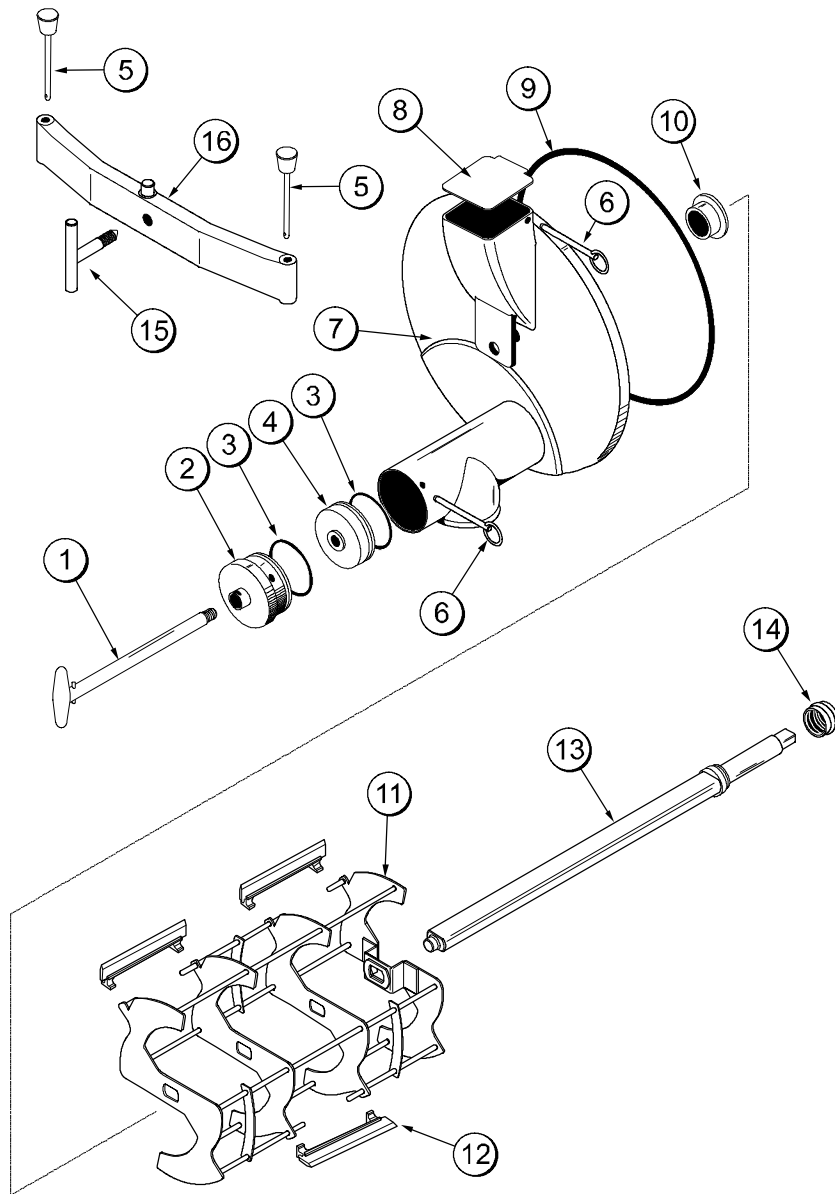
Operator Parts Identification



ITEM	DESCRIPTION	PART NO.
1	PAN-DRIP	027503
2	COVER A.-HOPPER-110-220	X24778
3	GASKET-HOPPER COVER	011412
4	PANEL-REAR	031749
5	FUNNEL A.-MIX	X35636
6	LOUVER-SIDE L & R	019566
7	PANEL-UPPER SIDE R.	033125
8	PANEL A.-SIDE *RIGHT*	X49481
9	CASTER-SWV-3/4-10 ST.	021279
10	SCREW-1/4-20X3/8 RHM-STNLS	011694
11	CASTER-LOCKING SWIVEL	030307

ITEM	DESCRIPTION	PART NO.
12	SHELF-DRIP TRAY	031753
13	PANEL-FRONT LOWER	049441
14	COLLAR-HOLDING	019481
15	FASTENER-CLIP 1/4-20 U-TYPE	045865
16	PANEL A.-SIDE LEFT*	X49480
17	PANEL A.-FRONT	X32154
18	PANEL-UPPER SIDE L.	033124
19	BUSHING-PANEL	013289
20	TRIM-REAR CORNER R.	031895
21	TRIM-REAR CORNER L.	031894
22	O-RING 1-5/8 OD X .139 W	011471

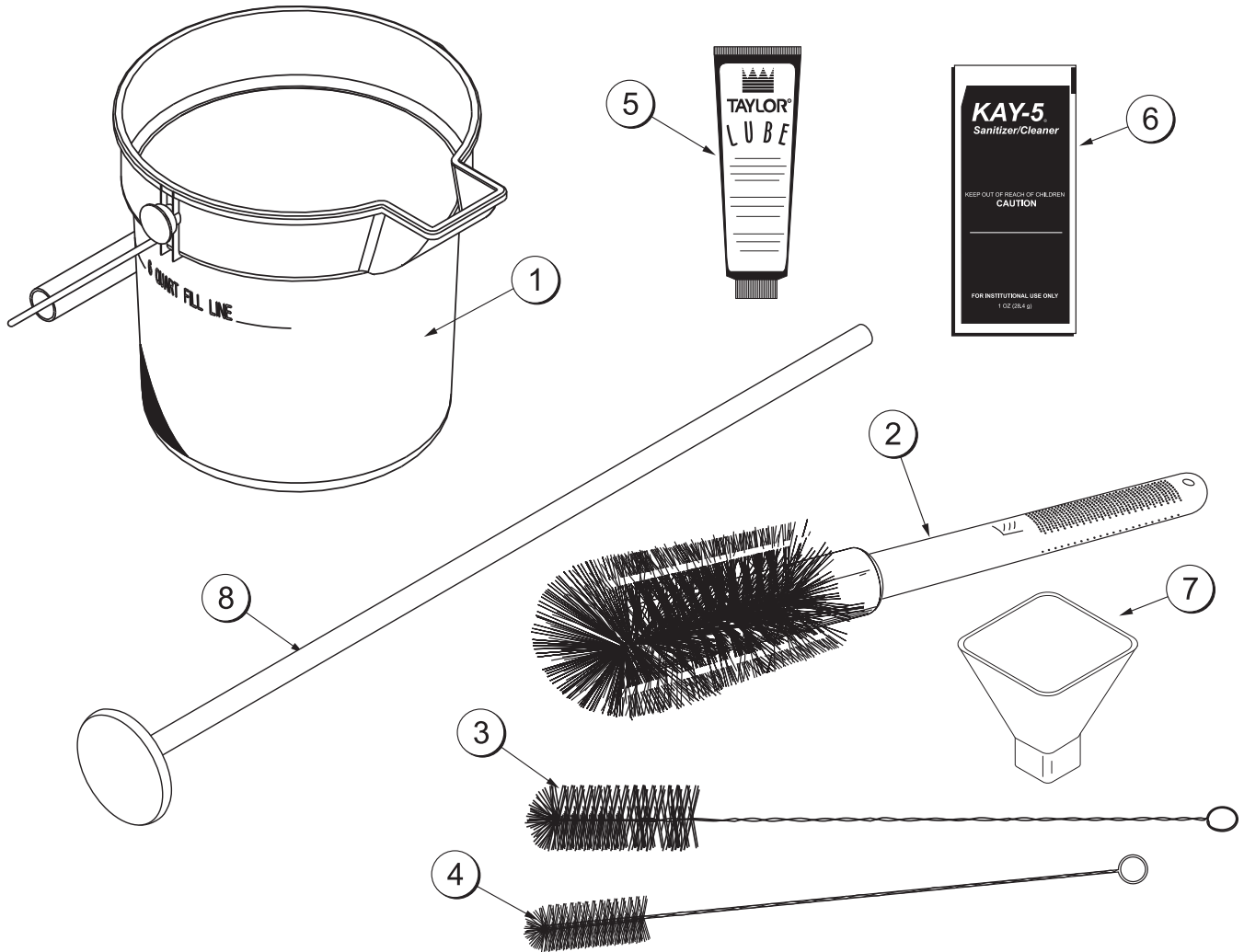
Beater Door Assembly



ITEM	DESCRIPTION	PART NO.
1	ROD A.-DRAW	X30079
2	HOLDER A.-BEARING	X30078
3	O-RING-2-1/8 OD X .139W-#225	020051
4	PISTON-VALVE	030083
5	PIN-HINGE	X04329
6	PIN A.-PIVOT	X34737
7	DOOR A.-PARTIAL SPOUT	X32938
8	CAP A.-COVER	X29667

ITEM	DESCRIPTION	PART NO.
9	O-RING-11-3/8OD X .103W	019046
10	BEARING-FRONT	019176
11	BEATER A.	X32269
12	BLADE-SCRAPER	052586
13	SHAFT-BEATER	032276
14	SEAL-DRIVE SHAFT	031316
15	SCREW A.-CROSS BAR	X07233
16	BAR-CROSS	011740

Accessories



ITEM	DESCRIPTION	PART NO.
1	PAIL-MIX 10 QUARTS	013163
2	BRUSH-MIX TANK BODY 3"X7"	023316
3	BRUSH-DRAW VALVE 1-1/2"X3"	014753
4	BRUSH-REAR BRG 1"X2"X14"	013071

ITEM	DESCRIPTION	PART NO.
5	LUBRICANT-TAYLOR	047518
6	SANITIZER KAY-5 125 PKTS.	041082
7	FUNNEL-PLASTIC DOOR	029670
8	PLUNGER A.	X09585

Section 5

Important: To the Operator

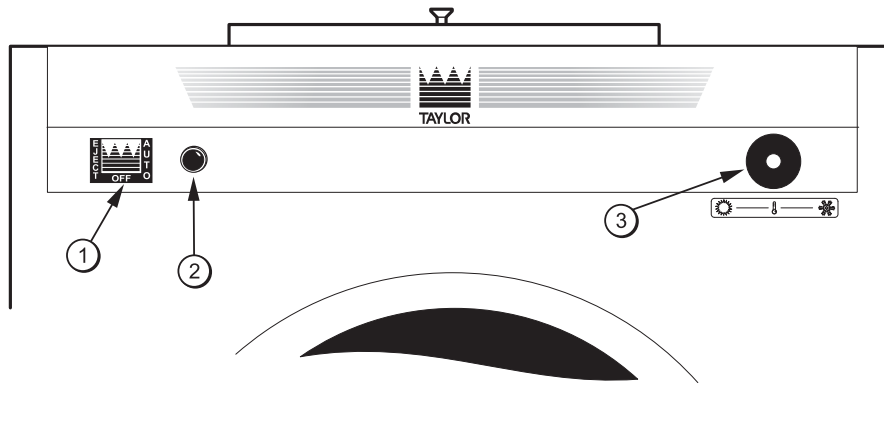


Figure 1

ITEM	DESCRIPTION
1	Control Switch (Switch-Rocker)
2	Dial Light (Light-Orange-Round)
3	Temperature Control (Control-Temp.)



Note: Never empty the contents of the freezing cylinder while the control switch is in the “**AUTO**” position. Always put the control switch into the “**EJECT**” position when drawing product from the freezing cylinder. As an additional safety feature, this unit will **not** operate if the door is open.

Symbol Definitions

To better communicate in the International arena, the words on many of our operator switches and buttons have symbols to indicate their functions. Your Taylor equipment is designed with these International symbols.

The following chart identifies the symbol definitions used on the operator switches.



= COLDER



= WARMER



= TEMP (Temperature)

Control Switch

When the control switch is placed in the “**AUTO**” position, the refrigeration system will operate. When the switch is placed in the “**EJECT**” position, only the beater motor will operate.

Dial Light

Located to the right of the control switch is a round dial light. When the control switch is in the “**AUTO**” position, this light will come on, indicating the refrigeration system is operating.

Temperature Control

Located on the right front side is the temperature control knob. Turning the adjusting knob **clockwise** will decrease product temperature. Turning the adjusting knob **counterclockwise** will increase product temperature. **Each quarter turn will vary the temperature approximately two degrees.**

Reset Mechanism

Located on the left side panel is the reset button. The reset protects the beater motor from an overload condition. Should an overload occur, the reset mechanism will trip. To properly reset the freezer, place the control switch in the “**OFF**” position. Press the reset button firmly. Place the control switch in the “**EJECT**” position and observe the freezer’s performance. Return the control switch to the “**AUTO**” position.

Section 6

Operating Procedures

The Model 220 freezer can produce all flavors of ice cream, including those with fruits and nuts. The freezer is designed for filling pints, quarts or gallons to be placed in a hardening cabinet. The unit has a 10 quart (9.5 liter) mix hopper.

The Model 220 will produce 20 quarts (18.9 liters) of frozen product from 10 quarts (9.5 liters) of fresh mix.

We begin our instructions at the point where we find the parts disassembled and laid out to air dry from the previous brush cleaning.

The following procedures will show you how to assemble the parts into the freezer, sanitize them, and prime the freezer with fresh mix to prepare the first batch.

If you are disassembling the machine for the first time or need information to get to this starting point in our instructions, turn to page 21, "Disassembly" and start there.

Assembly



MAKE SURE THE CONTROL SWITCH IS IN THE "OFF" POSITION. Failure to follow this instruction may result in severe personal injury from hazardous moving parts.

Step 1

Install the drive shaft. Apply an even coat of lubricant to the groove and shaft portion of the drive shaft. **Do not** lubricate the hex end. Slide the shaft seal, small end first, onto the shaft. Push the seal over the shoulder and into the groove in the shaft. Apply additional lubricant inside the large opening of the seal.

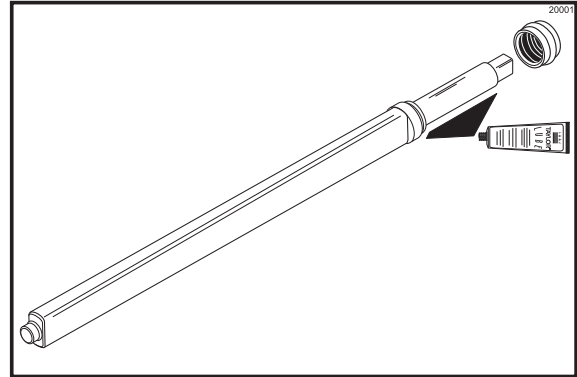


Figure 2

Insert the drive shaft through the rear shell bearing, and engage the hex end firmly into the gear box coupling. Be certain that the drive shaft fits into the coupling without binding.

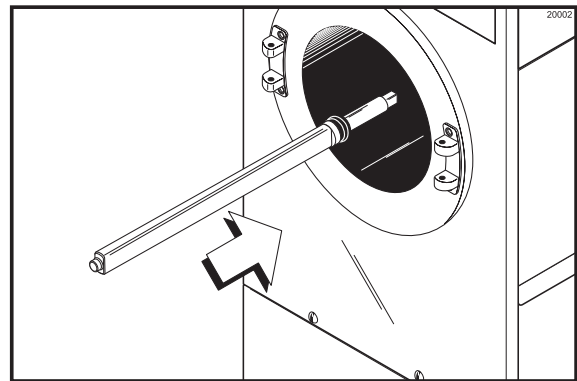


Figure 3

Step 2

Install the beater assembly. First check the scraper blades for any nicks or signs of wear. If the blades are in good condition, place the rear scraper blade into the grooves on the beater (knife edge to the outside). The pins on the blades fit under the pins on the beater to prevent the blades from falling off.

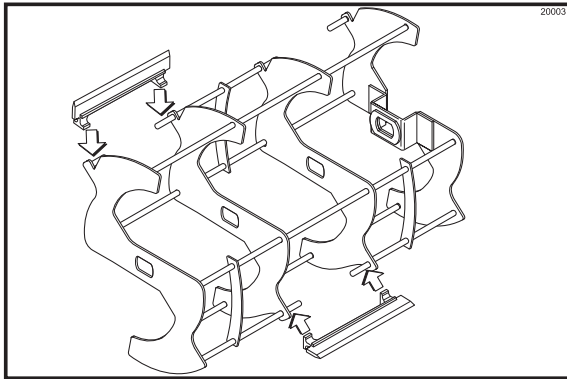


Figure 4

Holding the rear blade on the beater, slide the beater assembly into the freezing cylinder over the drive shaft until the entire blade is inside. Install the middle scraper blade into the two middle holding pins. Slide the beater assembly in farther and install the front scraper blade into the two front holding pins. Slide the beater assembly the rest of the way into the freezing cylinder.

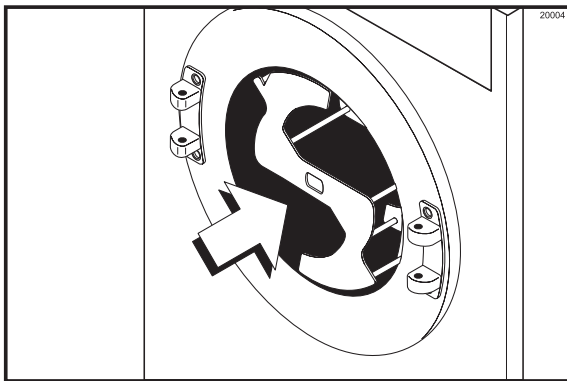


Figure 5

Make sure the beater assembly is pushed all the way to the rear of the freezing cylinder and that the end of the beater shaft protrudes from the end of the beater assembly. When in position, the beater will not protrude beyond the front of the freezing cylinder.

Step 3

Assemble the freezer door. Insert the large o-ring into the groove on the back of the freezer door.

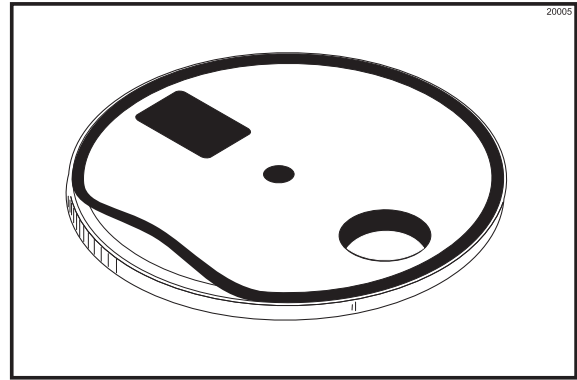


Figure 6

Insert the front bearing into the hole in the center on the back of the freezer door.

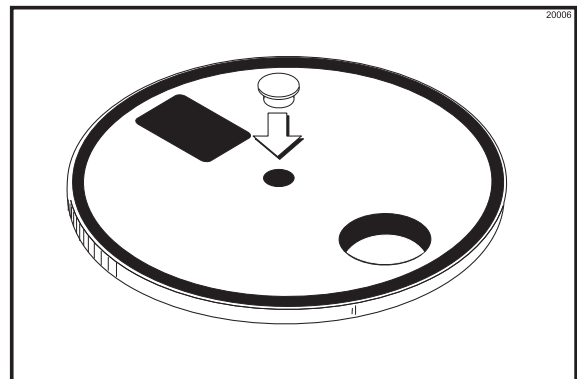


Figure 7

Slide the o-ring into the groove on the valve piston, and lubricate.

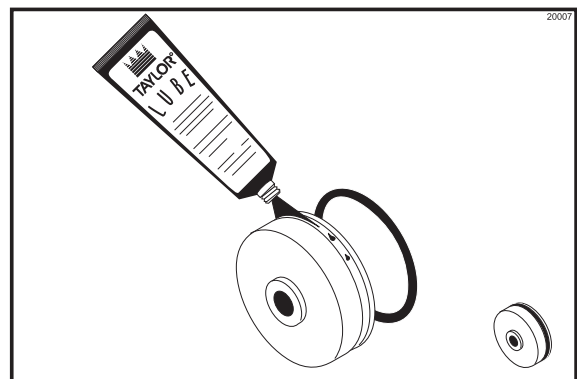


Figure 8

Slide the o-ring into the groove on the bearing holder, and lubricate.

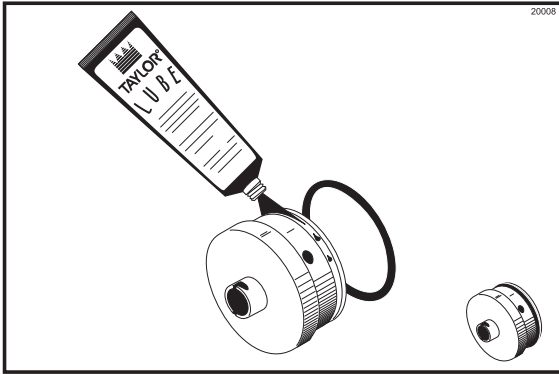


Figure 9

Lightly lubricate the inside of the valve body in the freezer door.

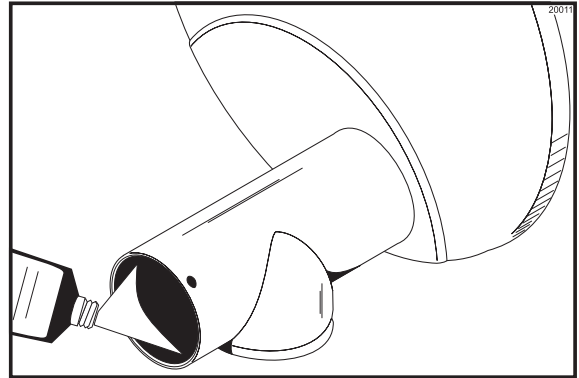


Figure 12

Lightly lubricate the draw rod, and slide the bearing holder onto the rod, locking stem first.

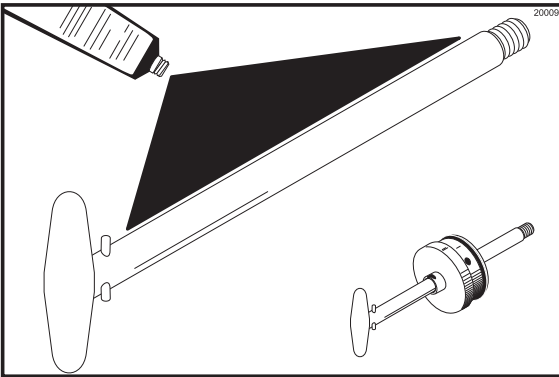


Figure 10

Insert the draw rod assembly, valve piston first, into the valve body.

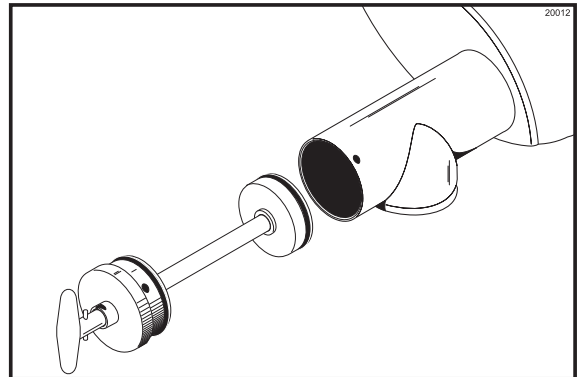


Figure 13

Thread the valve piston on the end of the draw rod until tight.

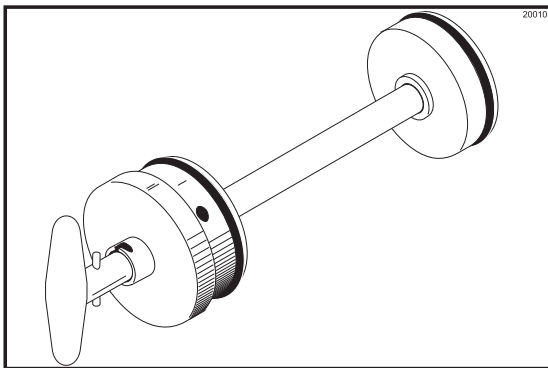


Figure 11

Turn the draw rod handle to lock the bearing holder into place.

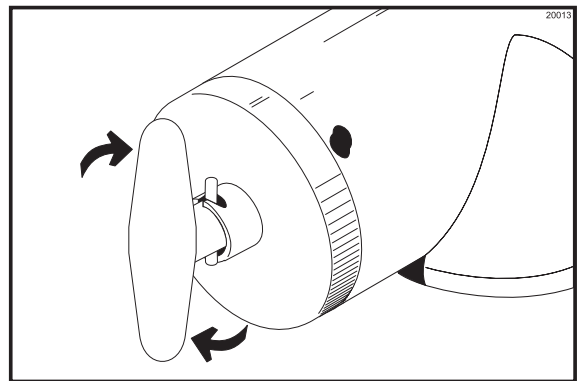


Figure 14

Turn the bearing holder so the holes are aligned with the holes in the valve body. Secure with the keeper pin.

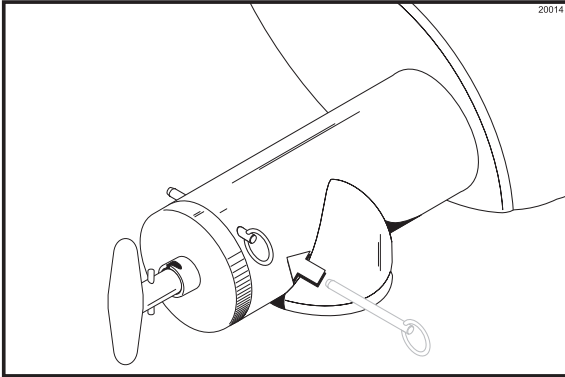


Figure 15

Step 4

Install the freezer door. Align the hole in the cross bar with the hole in either hinge, and insert the hinge pin. The cross bar can be assembled for either right or left opening. Holding the freezer door firmly, position the door onto the cross bar. Align the cross bar with the opposite hinge and insert the remaining hinge pin.

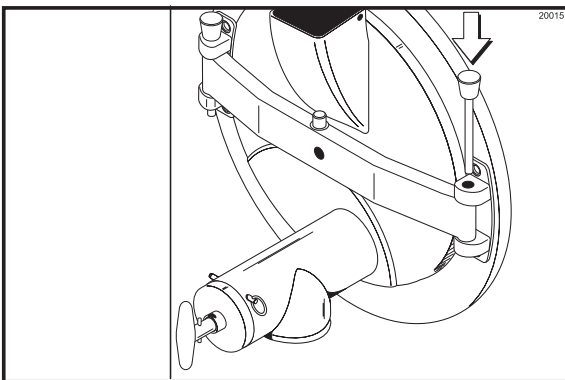


Figure 16

Make sure the freezer door fits securely over the freezing cylinder. With the door seated over the front of the freezing cylinder, install the cross bar screw assembly in the center of the freezer door through the cross bar. Tighten securely.

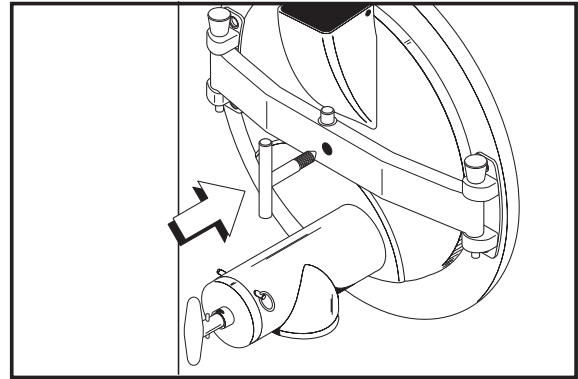


Figure 17

Step 5

Align the holes in the cover cap assembly with the holes on the freezer door. Secure with the keeper pin.

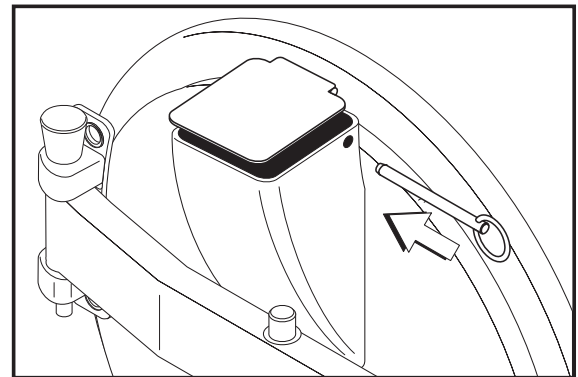


Figure 18

Step 6

Slide the rear drip tray into the hole in the left side panel.

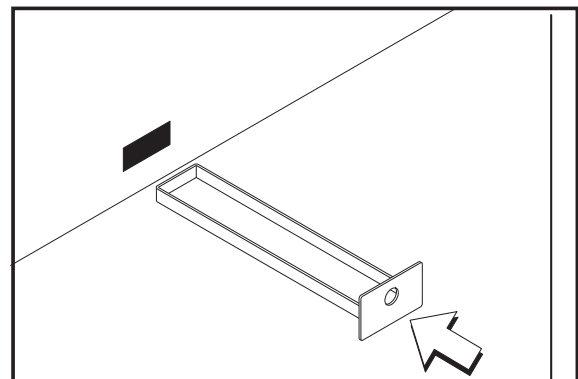


Figure 19

Step 7

Install the shelf. Choose the level desired and align the grooves in the back of the shelf with the holding collars. Slide the shelf down over the holding collars of the same height on the left and right sides.

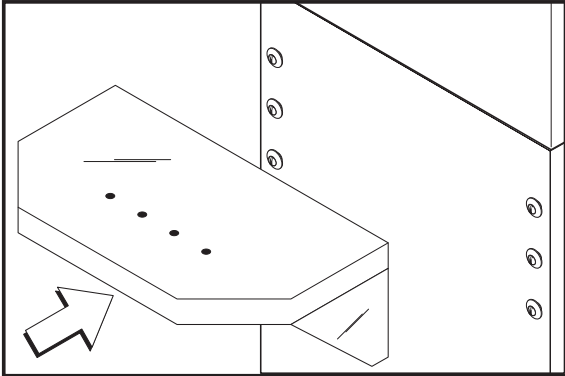


Figure 20

Sanitizing

Step 1

Prepare a pail of approved 100 PPM sanitizing solution (examples: 2-1/2 gal. [9.5 liters] of Kay-5® or 2 gal. [7.6 liters] of Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

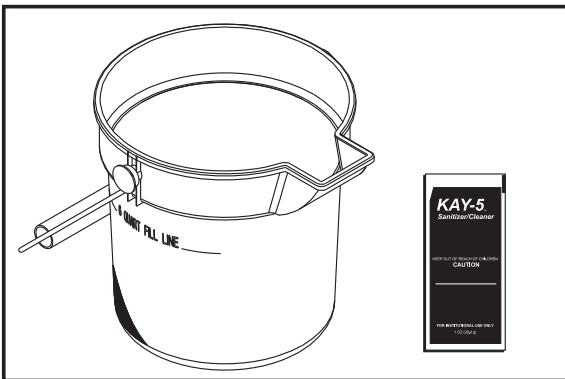


Figure 21

Step 2

Install the o-ring on the bottom of the funnel.

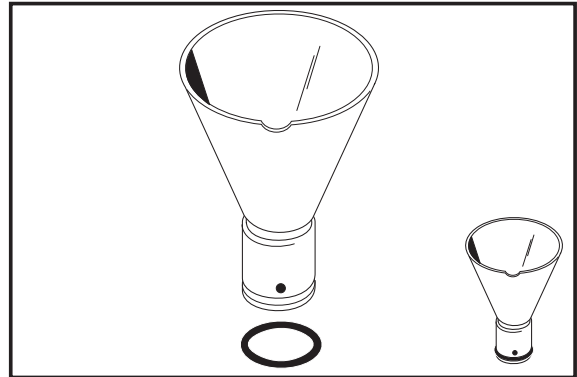


Figure 22

Step 3

Lay the funnel and the hopper gasket in the bottom of the mix hopper and pour the sanitizing solution into the hopper.

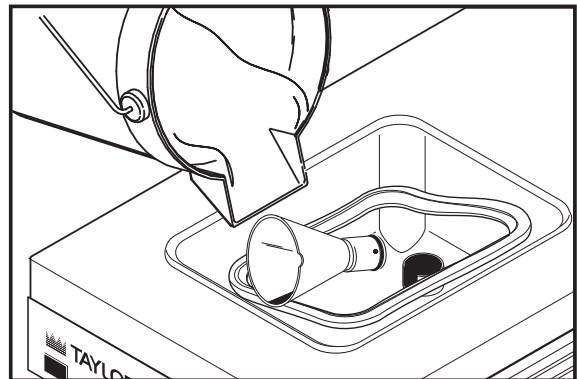


Figure 23

Step 4

While the solution is flowing into the freezing cylinder, brush clean the hopper and the mix inlet hole.

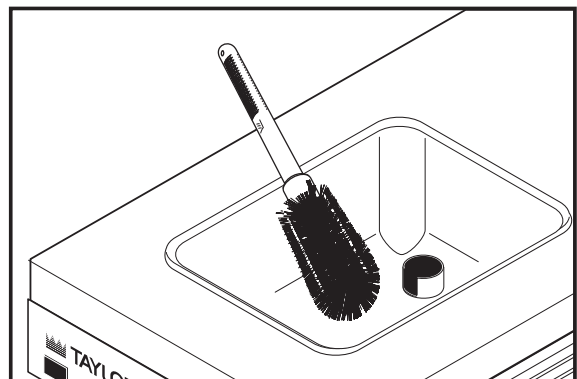


Figure 24

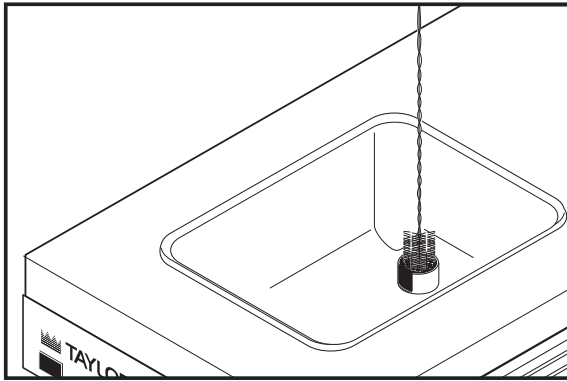


Figure 25

Step 5

Place the control switch in the “EJECT” position. This will cause the sanitizing solution in the freezing cylinder to be agitated. Allow to agitate for five minutes.

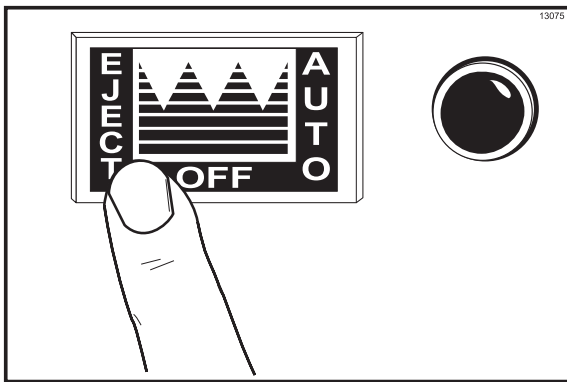


Figure 26

Step 6

Place the control switch in the “OFF” position.

With an empty mix pail beneath the ejection port, turn the draw rod handle and pull forward, opening the ejection port. Draw off all the sanitizing solution. When the sanitizer stops flowing from the ejection port, push the draw rod back into the valve body and lock into place.

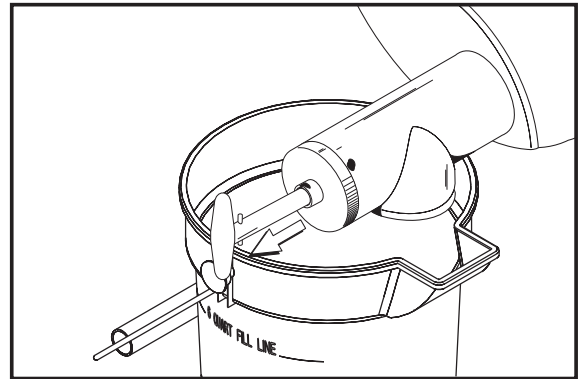


Figure 27

Step 7

Assemble the hopper gasket around the top edge of the mix hopper.

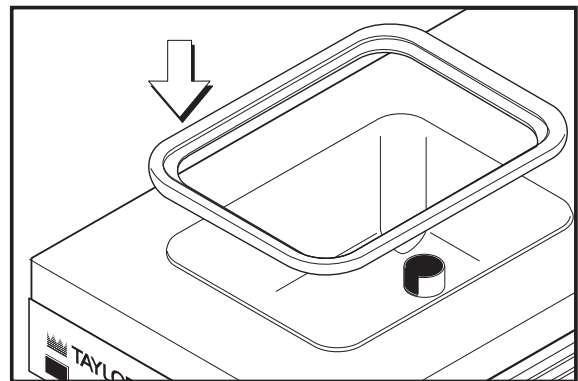


Figure 28

Priming

Step 1

Place the funnel in the mix inlet hole at the rear of the hopper. Turn the funnel to the right or left so that the opening in the funnel does **not** align with the opening in the mix inlet hole.

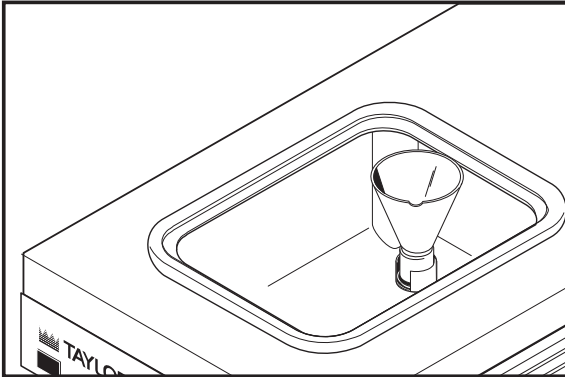


Figure 29

Step 2

Pour 10 quarts (9.5 liters) of **FRESH** mix into the hopper. This should bring the mix level up to the second graduated mark on the rear wall of the hopper.

Step 3

With the control switch in the “**OFF**” position, hold an empty mix pail beneath the ejection port. Turn the draw rod handle and pull forward, opening the ejection port.

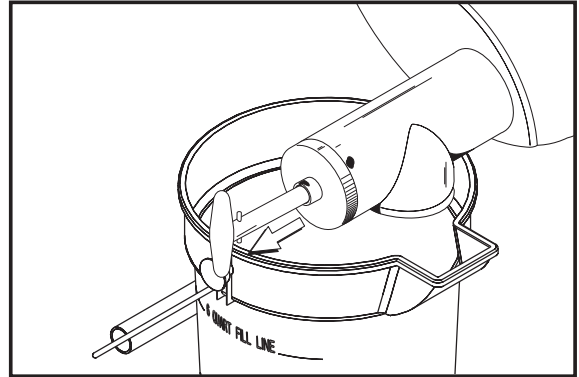


Figure 30

Step 4

Turn the funnel to the right or left so that the opening in the funnel aligns with the opening in the mix inlet hole. Mix being added will force any remaining sanitizing solution in the freezing cylinder out into the mix pail.

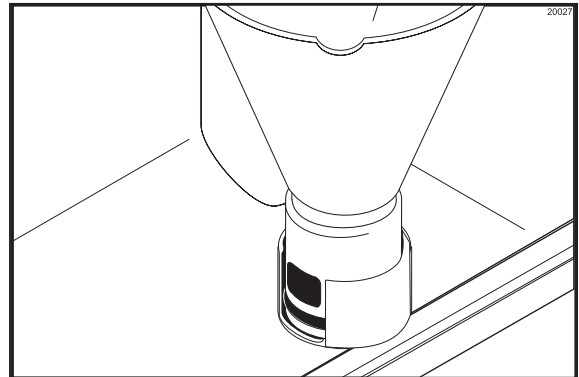


Figure 31

Step 5

When full strength mix is flowing from the ejection port, push the draw rod back into the valve body and lock into place.

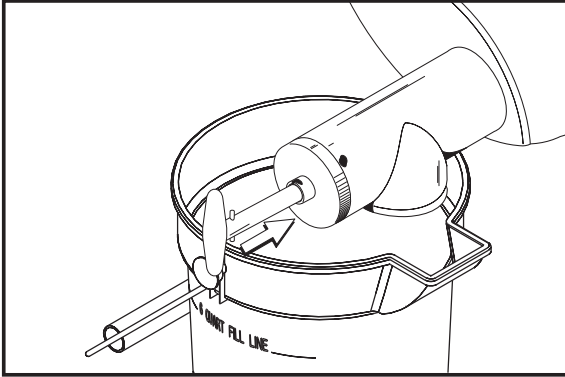


Figure 32

Note: The funnel can be returned to its closed position. Another measure of mix can be poured into the hopper in readiness for the next batch while the first batch of mix is freezing.

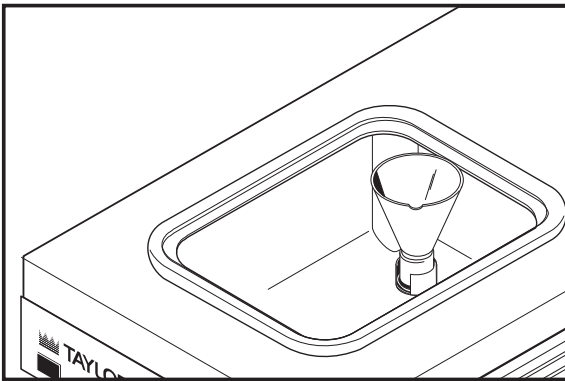


Figure 33

Step 6

Place the mix hopper cover in position.

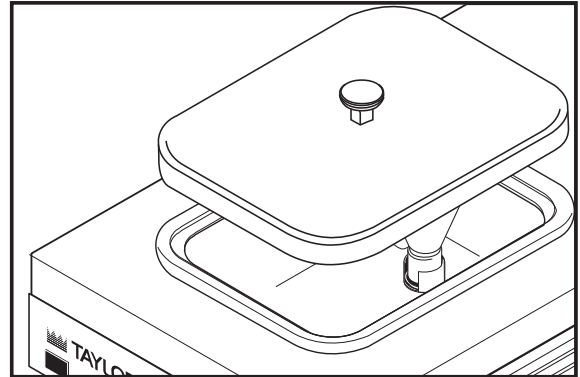


Figure 34

Step 7

Place the control switch in the "AUTO" position. When the unit automatically cycles off, the light will turn off. This light is a visual signal that the product is down to its proper temperature. Place the control switch in the "OFF" position.

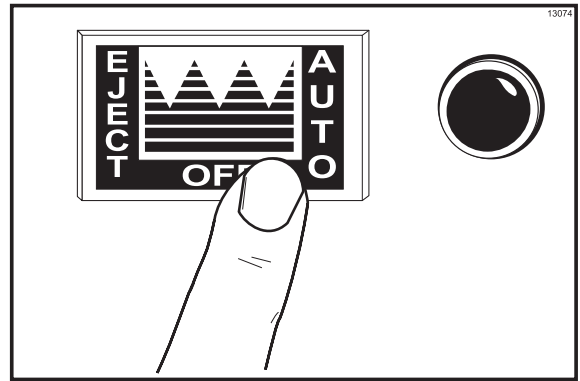


Figure 35

Step 8

To add fruits and nuts, place the control switch in the “EJECT” position. There are two ways to add fruits and nuts, as follows:

Fruits and nuts can be added through the mix hopper funnel assembly. Use the plunger to press the ingredients down into the freezing cylinder.

Fruits and nuts can also be added through the opening in the freezer door. **Install the white plastic door funnel** before using the plunger to press the ingredients into the freezing cylinder.

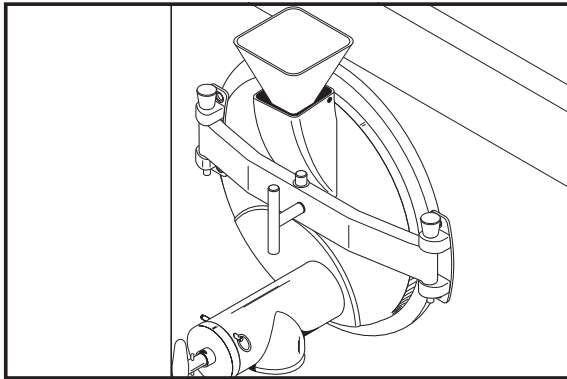


Figure 36

Note: The plastic door funnel MUST be installed before using the plunger when adding fruits and nuts through the opening in the freezer door. Failure to install the door funnel may result in the plunger hitting the beater assembly and damaging the machine.

If the plunger will not be used, fruits and nuts can be added through the freezer door without installing the plastic door funnel.

Step 9

Thoroughly mix the added ingredients until the desired consistency is obtained.

Overrun

With the control switch in the “EJECT” position, take a sample of the product to determine overrun. If the overrun is **not** at the desired level, leave the control switch in the “EJECT” position to agitate the product and blend more air into the mixture. Continue to take samples until the desired overrun is obtained.

Step 1

Use a standard overrun scale and a one pint (1/2 liter) measuring cup.

Step 2

Place the cup on the scale and adjust the scale pointer to the zero setting.

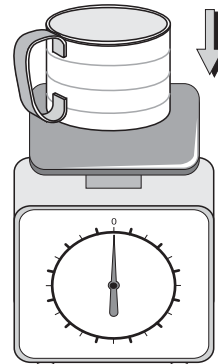


Figure 37

Step 3

Draw off one pint (1/2 liter) of product, and with a straight edge, level off the top.

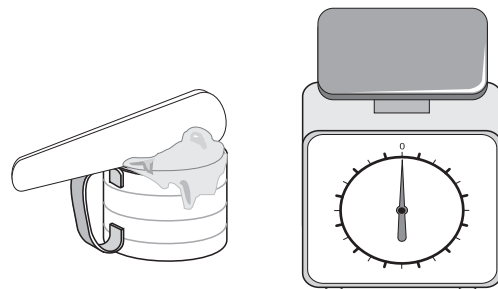


Figure 38

Step 4

Place the pint (1/2 liter) of product on the scale and read the overrun directly off of the scale.

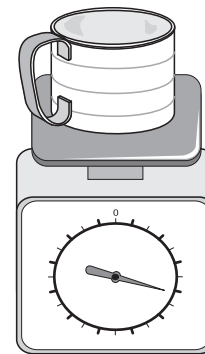


Figure 39

Step 5

If the scale does not have overrun graduations, then weigh one pint (1/2 liter) of mix before freezing. Draw a sample pint (1/2 liter) of frozen product and level it off with a straight edge.

Step 6

Place the pint (1/2 liter) of product on the scale and read the weight. Divide the weight of the frozen product into the weight of the raw mix for your percent of increase. If the answer is 2, you have 100% overrun. If the answer is between 1 and 2, the decimal represents your overrun.

Example:		
		1.85
		8.2 $\overline{)15.2}$
Raw Mix	= 15.2 oz. (450 ml)	
Frozen Mix	= 8.2 oz. (243 ml)	Overrun = 85%

Drawing Product

Step 1

When the desired temperature and overrun of the product has been achieved, the product may be drawn into packages or cans for hardening. Place the package or can directly beneath the ejection port of the freezer door.

Step 2

Put the control switch into the “EJECT” position and place the container on the shelf.

Turn the draw rod handle and pull forward, opening the ejection port. When the container is full, push the draw rod back into the valve body and lock into place.

Step 3

When the freezing cylinder is empty of product, close the ejection port and place the control switch in the “OFF” position.

Note: The shelf can be adjusted for large or small containers. Lift upwards on the front edge of the shelf to disengage from the holding collars; then lift away from the freezer. Choose the desired height and slide the shelf back down over the holding collars of the same height on right and left sides.

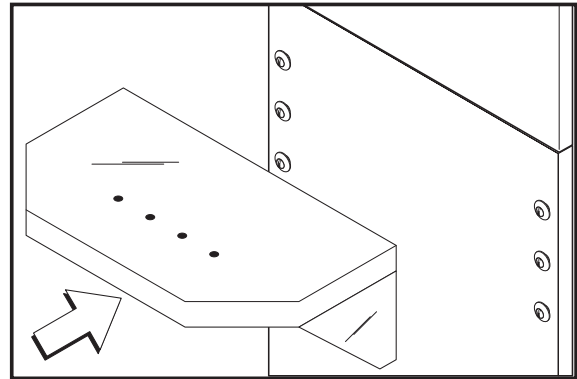


Figure 40

Closing Procedures

After the necessary batches have been prepared, the machine should be cleaned and sanitized. The following procedures will show you how to rinse the freezing cylinder of mix residue, clean and sanitize, and disassemble the parts from the freezer.

Rinsing



MAKE SURE THE CONTROL SWITCH IS IN THE “OFF” POSITION. Failure to follow this instruction may result in severe personal injury from hazardous moving parts.

Step 1

Remove the hopper cover, the gasket and the funnel. Take these parts to the sink for cleaning.

Step 2

Pour two gallons (7.6 liters) of **cool**, clean water into the mix hopper. With the brushes provided, scrub the mix hopper and the mix inlet hole.

Step 3

Put the control switch into the “**EJECT**” position and allow the water to agitate for approximately one minute.

Step 4

Put the control switch into the “**OFF**” position. Hold a mix pail beneath the ejection port.

Step 5

Turn the draw rod handle and pull toward, opening the ejection port. When the water stops flowing from the ejection port, push the draw rod back into the valve body and lock into place.

Repeat these procedures until the rinse water being drawn from the freezing cylinder is clear.

Cleaning/Sanitizing

Step 1

Prepare a pail of approved 100 PPM cleaning/sanitizing solution (examples: 2-1/2 gal. [9.5 liters] of Kay-5® or 2 gal. [7.6 liters] of Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

Step 2

Pour the cleaning/sanitizing solution into the hopper and allow it to flow into the freezing cylinder.

Step 3

While the solution is flowing into the freezing cylinder, brush clean the hopper and the mix inlet hole.

Step 4

Put the control switch into the “**EJECT**” position. This will cause the cleaning/sanitizing solution in the freezing cylinder to be agitated. Allow it to agitate for five minutes.

Step 5

Put the control switch into the “**OFF**” position. Hold an empty mix pail beneath the ejection port.

Step 6

Turn the draw rod handle and pull forward, opening the ejection port. Draw off all the sanitizing solution. When the sanitizer stops flowing from the ejection port, push the draw rod back into the valve body and lock into place.

Disassembly



MAKE SURE THE CONTROL SWITCH IS IN THE “OFF” POSITION. Failure to follow this instruction may result in severe personal injury from hazardous moving parts.

Step 1

Remove the cross bar screw assembly, the hinges, pins, the cross bar, the freezer door, the beater assembly, the scraper blades, and the drive shaft from the freezing cylinder. Also remove the adjustable shelf. Take these parts to the sink for further disassembly and cleaning.

Step 2

Remove the rear drip tray from the side panel.

Note: If the drip tray is filled with an excessive amount of mix, it is an indication that the drive shaft seal should be replaced or was improperly lubricated.

Brush Cleaning

Step 1

Prepare a sink with an approved cleaning solution (example: Kay-5® or Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

If an approved cleaner other than (example: Kay-5® or Stera-Sheen®) is used, dilute it according to the label instructions. **IMPORTANT:** Follow the label directions. Too **STRONG** of a solution can cause parts damage, while too **MILD** of a solution will not provide adequate cleaning. Make sure all brushes provided with the freezer are available for brush cleaning.

Step 2

Remove the seal from the drive shaft.

Step 3

From the freezer door:

Remove the keeper pin on the valve body. Turn the draw rod handle and pull the draw rod assembly out of the valve body. Unscrew the valve piston and slide the bearing holder down off the draw rod. Remove the o-ring from the valve piston and the bearing holder. Remove the large o-ring and the front bearing from the back of the freezer door. Remove the keeper pin from the cover cap assembly and remove the cover cap assembly.

Note: To remove o-rings, use a single service towel to grasp the o-ring. Apply pressure in an upward direction until the o-ring pops out of its groove. With the other hand, push the top of the o-ring forward. It will roll out of the groove and can be easily removed. If there is more than one o-ring to be removed, always remove the rear o-ring first. This will allow the o-ring to slide over the forward rings without falling into the open grooves.

Take these parts to the sink for cleaning,

Step 4

Thoroughly brush clean all disassembled parts in the cleaning solution, making sure all lubricant and mix film is removed. Place all the cleaned parts on a clean dry surface to air dry overnight.

Step 5

Return to the freezer with a small amount of cleaning solution. With the black bristle brush, brush clean the rear shell bearing at the back of the freezing cylinder.

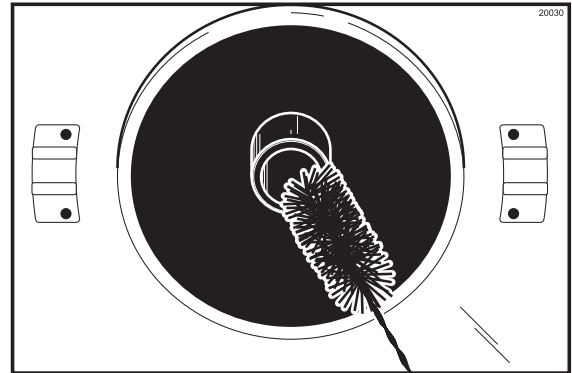


Figure 41

Step 6

Wipe clean the shelf and all exterior surfaces of the freezer.

Section 7 Important: Operator Checklist

During Cleaning and Sanitizing

Cleaning and sanitizing schedules are governed by your State or local regulatory agencies and must be followed accordingly. The following check points should be stressed during the cleaning and sanitizing operations.



We recommend that after the necessary batches have been prepared for the day, the machine be cleaned and sanitized.




ALWAYS FOLLOW LOCAL HEALTH CODES.

Troubleshooting Bacterial Count

- 1. Thoroughly clean and sanitize the machine regularly, including complete disassembly and brush cleaning.
- 2. Use all brushes supplied for thorough cleaning. The brushes are specially designed to reach all mix passageways.
- 3. Use the white bristle brush to clean the mix inlet hole which extends from the mix hopper down to the rear of the freezing cylinder.
- 4. Use the black bristle brush to thoroughly clean the rear shell bearing located at the rear of the freezing cylinder. Be sure there is a generous amount of cleaning solution on the brush.
- 5. Properly prepare the cleaning/sanitizing solution. Read and follow the label directions carefully. Too strong of a solution may damage the parts and too weak of a solution will not do an adequate job of cleaning and sanitizing.
- 6. The temperature of the liquid mix should be below 40°F. (4.4°C.).
- 7. The temperature of finished product to be placed in a hardening cabinet should be between 23° and 25°F (-5.0° to - 3.9°C).

Regular Maintenance Checks

- 1. Replace scraper blades that are nicked or damaged. Before installing the beater, be certain that the scraper blades are properly attached.
 - 2. Check the rear shell bearing for signs of wear (excessive mix leakage in rear drip pan) and be certain it is properly cleaned.
 - 3. Using a screwdriver and cloth towel, keep the rear shell bearing and the female hex drive socket clean and free of lubricant and mix deposits.
 - 4. Dispose of o-rings and seals if they are worn, torn, or fit too loosely, and replace with new ones.
 - 5. Follow all lubricating procedures as outlined in “Assembly”.
 - 6. If your machine is air cooled, check the condenser for accumulation of dirt and lint. Dirty condensers will reduce the efficiency and capacity of the machine. Condensers should be cleaned **monthly** with a soft brush.
Note: For machines equipped with an air filter, it will be necessary to vacuum clean the filters on a monthly schedule.
- 

Never use screwdrivers or other metal probes to clean between the fins.
- 7. On water cooled units, check the water lines for kinks or leaks. Kinks can occur when the machine is moved back and forth for cleaning or maintenance purposes. Deteriorated or cracked water lines should be replaced only by an authorized Taylor technician.

Winter Storage

If the place of business is to be closed during the winter months, it is important to protect the freezer by following certain precautions, particularly if the building is subject to freezing conditions.

Disconnect the freezer from the main power source to prevent possible electrical damage.

On water cooled freezers, disconnect the water supply. Relieve pressure on the spring in the water valve. Use air pressure on the outlet side to blow out any water remaining in the condenser. **This is extremely important.** Failure to follow this procedure may cause severe and costly damage to the refrigeration system.

Your local Taylor Distributor can perform this service for you.

Wrap detachable parts of the freezer such as the beater, blades, drive shaft, and freezer door. Place these parts in a protected, dry place. Rubber trim parts and gaskets can be protected by wrapping them with moisture-proof paper. All parts should be thoroughly cleaned of dried mix or lubrication which attract mice and other vermin.

Section 8

Troubleshooting Guide

PROBLEM	PROBABLE CAUSE	REMEDY	PAGE REF.
1. Unit will not run in the "AUTO" position.	a. Unit is unplugged.	a. Plug in wall receptacle.	--
	b. Circuit breaker is off.	b. Turn the breaker on.	--
	c. Unit is off on reset.	c. Place control switch in the "OFF" position. Press reset button firmly. Place control switch in the "EJECT" position and observe freezer's performance. Resume normal operation.	10
2. Product is not freezing.	a. Dirty condensers.	a. Clean condensers regularly.	23
	b. The control switch is not in the "AUTO" position.	b. Place the control switch in the "AUTO" position.	18
	c. On water cooled units, inadequate water supply.	c. Check to be sure the water is turned on. Check hoses for leaks or kinks.	23
3. Drive shaft is stuck.	a. Rounded corners on shaft, drive socket, or both.	a. Replace the drive shaft, drive socket, or both. Do not lubricate the hex end of the drive shaft. Contact a service technician.	--
4. Walls of freezer cylinder are scored.	a. Scraper blades were improperly installed.	a. Install them properly.	12
5. Excessive mix leakage in the rear drip tray.	a. Drive shaft seal is worn or missing.	a. Install or replace the seal.	11
	b. Inadequate lubrication of drive shaft seal.	b. Lubricate properly.	11
	c. Rear shell bearing is worn.	c. Contact a service technician.	--
	d. The wrong type of lubricant is being used.	d. Use Taylor Lube.	--
6. Buzzer does not sound when the freezer cycles off. (Note: the buzzer is an optional feature.)	a. Buzzer is malfunctioning.	a. Contact a service technician.	--

PROBLEM	PROBABLE CAUSE	REMEDY	PAGE REF.
7. Overrun is too low.	a. The temperature control is set too cold.	a. Adjust it accordingly.	10
	b. Not enough air is blended into the product.	b. Place the control switch in the “ EJECT ” position to blend in more air. Continue blending until the desired overrun is achieved.	19
	c. Improper priming procedures.	c. Follow priming procedures.	17
8. Overrun is too high.	a. Not enough mix is in the freezing cylinder when priming the machine.	a. Follow priming procedures.	17
	b. The temperature control is set too warm.	b. Adjust accordingly.	10
	c. Left in “ EJECT ” position too long after drawing some product out to place in hardening cabinet.	c. After drawing out the first portion, place the control switch in the “ OFF ” position. Return to freezer to draw out more product, place control switch in the “ EJECT ” position.	- -

Section 9

Parts Replacement Schedule

PART DESCRIPTION	EVERY 3 MONTHS	EVERY 4 MONTHS	EVERY 6 MONTHS	ANNUALLY	QTY.
Front Bearing	X				1
Scraper Blades		X			3
Drive Shaft Seal	X				1
Funnel O-Ring	X				1
Freezer Door O-Ring	X				1
Bearing Holder and Valve Piston O-Ring	X				2
Black Bristle Brush, 1" x 2"			Inspect & Replace if Necessary	Minimum	1
White Bristle Brush, 1-1/2" x 2"			Inspect & Replace if Necessary	Minimum	1
White Bristle Brush, 3" x 7"			Inspect & Replace if Necessary	Minimum	1

Section 10

Parts List

HP62 - J5083472/Up

DESCRIPTION	PART NUMBER	QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
BAR-CROSS *220*	011740	1	103		
+PIN A.-CROSSBAR HINGE	X04329	2	103		
BEARING-REAR SHELL *NICK.PLATE	031324	1	000		
+GUIDE-DRIP SEAL	028992	1	000		
+NUT-BRASS BEARING	028991	1	000		
+WASHER-BEARING LOCK	012864	1	000		
BEATER A.-NEW STYLE 220*	X32269	1	103		
+BLADE-SCRAPER *220* PLASTIC	052586	3	000	(OLD METAL - X07892)	
BELT-V-4L400	007590	2	000		
BLOCK-TERMINAL 2P-L1,L2	039422	1	103	208-230/60/1	
BLOCK-TERMINAL 3P-L1,L2,L3	039423	1	103	208-230/60/3	
BLOWER A.	X47833-27	1	103		
BOOT-CAPACITOR INSULATING	031314	1	000		
CAPACITOR-RUN- 10 UF/370V	033047	1	103		
HOUSING A.-W/WHEEL	X30160	1	103		
MOTOR-BLOWER-208/230V 50/60 HZ	046536-27	1	103		
BRUSH-DRAW VALVE 1-1/2"OD X 3"	014753	1	000		
BRUSH-MIX PUMP BODY-3"X7"WHITE	023316	1	000		
BRUSH-REAR BRG 1IN.DX2IN.LGX14	013071	1	000		
BUZZER	022758-27	1	103		
CAP-RUBBER MOUNT	011844	2	103		
CASTER-LOCKING SWIVEL 3 IN.	030307	2	103	FRONT	
CASTER-SWV-3/4-10 ST. 3IN WHL	021279	2	103	REAR	
COLLAR-HOLDING	019481	6	103		
COMPRESSOR CS27K3E-PFV-238	053465-	1	512	J9066689/Up	145
+CAPACITOR-RUN- 40MF/440 Volt	036049	1	103	208-230/60/1	
+CAPACITOR-START-189-227UF/330V	033044-1	1	103	208-230/60/1	
+RELAY-START-COMPRESSOR	053473	1	103	208-230/60/1	
COMPRESSOR L63A183BBCA - BRISTOL	048741-	1	512	Prior to J9066689	145
+CAPACITOR-RUN- 35UF/440V	048132	1	103	208-230/60/1	

+ Available Separately

DESCRIPTION	PART NUMBER	QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
+CAPACITOR-START-216-259UF/330V	048908	1	103	208-230/60/1	
+RELAY-START-COMPRESSOR	048909	1	103	208-230/60/1	
CONDENSER-AC-12LX18HX4.3-5ROW	019558	1	103		
CONTROL-TEMP -15F TO 40F	019747	1	103		
+KNOB-TEMP CONTROL	013731	1	103		
COUPLING-DRIVE 3/4 HEX X 1-7/8	012721	1	103		
+SCREW-5/16-18 X 5/16 ALLEN SET	042511	2	000		
COVER A.-HOPPER-110-220	X24778-SER	1	103		
+GASKET-HOPPER COVER-10 QT	011412	1	000		
KNOB-MIX COVER	025429	1	103		
DECAL-CLEAN INST.-BATCH	030582	1	000		
DECAL-DEC-TAYLOR	021872	1	000		
DECAL-TROUBLESHOOTING	038374	1	000		
DIAGRAM-WIRING *110-220*	030385	1	000		
DOOR A.-PARTIAL *220* SPOUT	X32938	1	103	W/CHUTE & INTERLOCK	
+BEARING-FRONT *110-220*	019176	1	000		
+CAP A.-COVER *220*	X29667	1	103		
+HOLDER A.-BEARING *121 W/SPOUT	X30078	1	103		
+O-RING-5/8 OD X .139W	026020	1	000		
+O-RING-11-3/8 OD X .103W	019046	1	000		
+O-RING-2-1/8 OD X .139W-#225	020051	2	000		
+PIN A.-PIVOT	X34737	2	103		
+PISTON-VALVE *121 W/SPOUT*	030083	1	103		
+ROD A.-DRAW *121 W/SPOUT*	X30079	1	103		
DRYER-FILTER 3/8 X 3/8SOL HP62	049154	1	000		
FUNNEL A.-MIX *220*	X35636	1	103		
+O-RING-1-5/8 OD X .139W	018564	1	000	REPLACES 011471	
FUNNEL-PLASTIC DOOR	029670	1	000		
GEAR A.*REDUCER	021286	1	212		
GUIDE A.-DRIP PAN	X28863	1	103		
HINGE-CROSSBAR	007296	2	103		
HOOD *220*	032157	1	103		
KIT A.-TUNE UP*220*NEW*	X33081	1	000		

+ Available Separately

DESCRIPTION	PART NUMBER	QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
BEARING-FRONT *110-220*	019176	1	000		
O-RING-1-5/8 OD X .139W	018564	1	000	MIX FUNNEL	
O-RING-11-3/8 OD X .103W	019046	1	000		
O-RING-2-1/8 OD X .139W-#225	020051	2	000		
SEAL-DRIVE SHAFT	031316	1	000		
TOOL-O-RING REMOVAL-FREEZER	048260-WHT	1	000		
LABEL-DOOR CAUTION	032749	1	000		
LABEL-WARM/COLD-INTL SYMBOL	013749	1	000		
LABEL-WARNING-COVER	051433	5	000		
LIGHT-ORANGE-ROUND	017450	1	103		
LOUVER-SIDE	019566	2	103		
LUBRICANT-TAYLOR 4 OZ.	047518	1	000		
MAN-OPER 110/220	028763-M	1	000		
MOTOR-1.5 HP	021522-	1	212		
PAIL-MIX 10 QT.	013163	1	000		
PAN-DRIP 11-5/8 LONG	027503	1	103		
PANEL A.-FRONT *220*	X32154	1	103		
PANEL A.-SIDE *220*LEFT*HP62	X49480	1	103		
PANEL A.-SIDE *220*RIGHT*HP62	X49481	1	103		
PANEL-FRONT LOWER *220*HP62	049441	1	103		
PANEL-REAR *121-26-31-220*	031749	1	103		
PANEL-UPPER SIDE L. *220*	033124	1	103		
PANEL-UPPER SIDE R. *220*	033125	1	103		
PIN A.-CROSSBAR HINGE	X04329	2	103		
PLATE-DEC-110-220*	033027	1	103		
PLUG-DRIP TRAY HOLE	029595	1	103		
PLUNGER A. *110-20-1-220*	X09585	1	103		
PULLEY-2AK32 X .626-.627	016251	1	103	BEATER MOTOR	
PULLEY-2AK64-5/8 BORE	039695	1	103	GEAR	
RECEIVER A. *220*AC*HP62	X49437	1	103	ACCUMULATOR	
RELAY-3 POLE-20A-208/240 50/60	012725-33	1	103		
ROD-SWITCH *131*	031730	1	103		
SANITIZER KAY-5 125 PACKETS	041082	1	000		

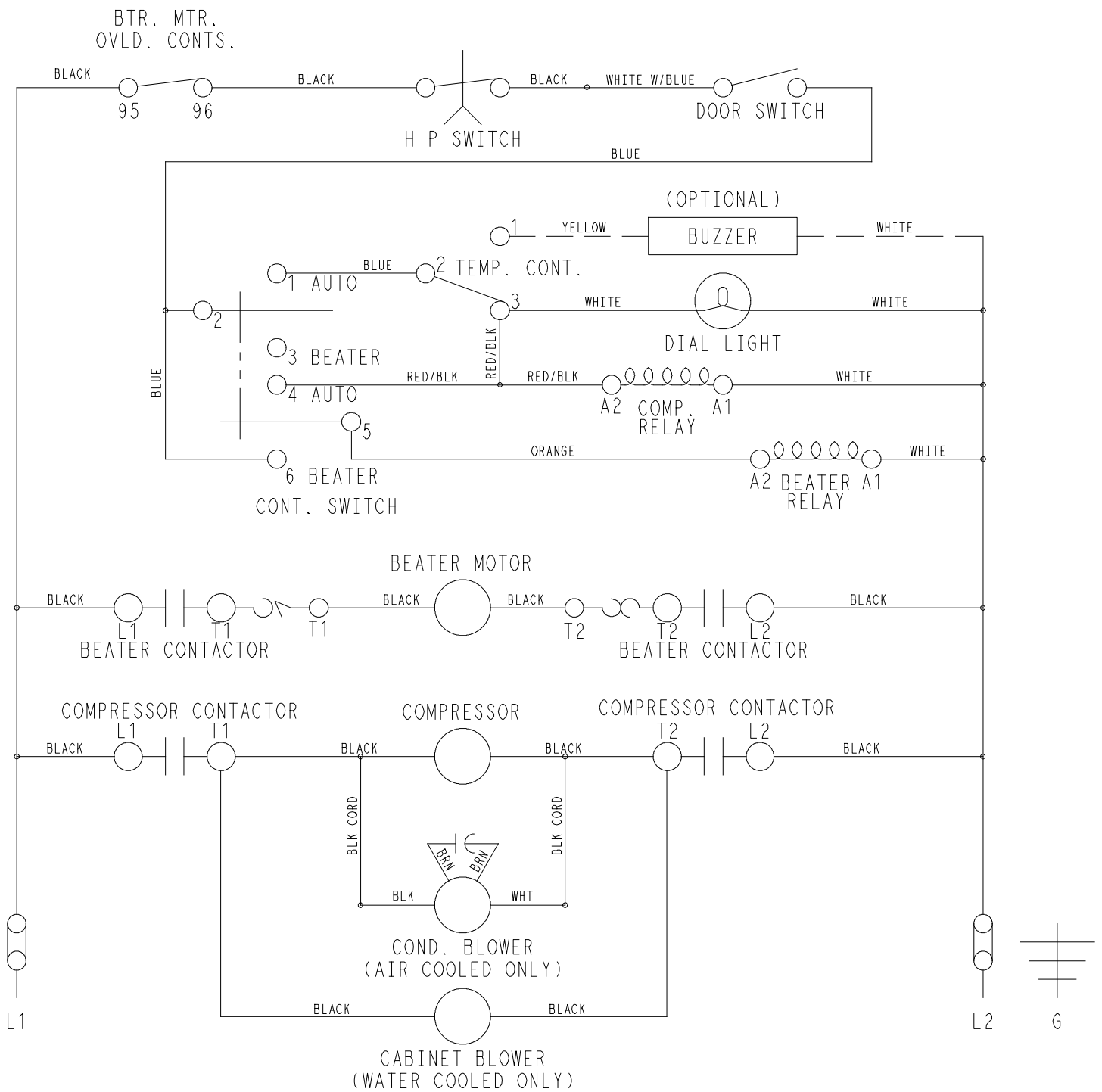
+ Available Separately

DESCRIPTION	PART NUMBER	QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
SCREW A.-CROSSBAR	X07233	1	103		
SHAFT-BEATER *220*	032276	1	103		
+SEAL-DRIVE SHAFT	031316	1	000		
SHELF-DRIP TRAY*121-26-31-220*	031753	1	103		
SHELL A.-INSULATED *220*	X34861	1	512		
STARTER-1 PHASE-4.5 TO 7 A	041950-27K	1	103	208-230/50-60/1	
STARTER-3 PHASE-3 TO 5 AMP	041950-33J	1	B	208-230/60/3	
SWITCH A.-DRAW *121-6 131-32*	X31727-SER	1	103		
ARM A.-SWITCH*121-6 131-32*	X31728	1	103		
BRACKET-SWITCH DOOR	015335	1	103		
E-RING 3/16 .335 O.D.	049178	1	000		
INSULATOR-ARMITE-4 HOLE	012992	1	000		
PIN-PIVOT	015478	1	103		
SPRING-RETURN	015342	1	103		
SWITCH-LEVER-SPDT-15A-125-480V	009367	1	103		
SWITCH-PRESSURE 440 PSI-SOLDER	048230	1	103		
SWITCH-ROCKER-DPDT ON-OFF-ON	014237	1	103		
+BRACKET-ROCKER SWITCH	020820	1	103		
+CARD-SWITCH INDICATOR	027910	1	000		
TRIM-REAR CORNER L. *110-21-26	031894	1	103		
TRIM-REAR CORNER R. *110-21-26	031895	1	103		
TUBE-CAPILLARY .021ID X 18 FT	035438	1	103		
VALVE-ACCESS 1/4FL X 3/8SOLDER	043232	1	103		
VALVE-ACCESS-1/4 MFLX1/4 S-90	047016	1	103		
VALVE-EXP-THERMO-3/8S X 1/2S	049425	1	103		
KNIFE DOOR					
DOOR A.-PARTIAL *220 KNIFE	X29666-SP	1	103		
+ARM-DRAW A. *110-220*	X23158	1	103		
+BALL-RUBBER 1/2 DIA	022594	1	103		
+CAP-STEM *110-220*	022593	1	103		
+PIN A.-PIVOT	X34737	1	103		
+PIN-COTTERLESS HITCH-1-1/2"L	019849	1	103		

+ Available Separately

DESCRIPTION	PART NUMBER	QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
+PLATE-SEAL *220*	022783	1	103		
+STEM *220*	024842	1	103		
WATER COOLED					
ADAPTOR-3/8MP X 1/2BARB-BR	011021	2	103		
BLOWER-100 CFM	012796-27	1	103		
BRACKET-MOUNTING-WATER VALVE	038777	1	103		
CONDENSER-WC-COAX	047540	1	103		
GUARD-BLOWER	022505	1	103		
HOSE-RUBBER 1/2"ID X 7/8"OD	020901-24	1	000	BULK - R50200	
HOSE-RUBBER 1/2"ID X 7/8"OD	020901-28	1	000	BULK - R50200	
RECEIVER A. *220*WC*HP62	X49438	1	103	ACCUMULATOR	
SWITCH-PRESSURE 350 PSI-SOLDER	048231	1	103		
VALVE-WATER 3/8 REG/HEAD PRESS	046686	1	103		
50Hz					
BLOCK-TERMINAL 3P-L1,L2,L3	039423	1	103	220-240/50/3	
BLOCK-TERMINAL 4P-L1,L2,L3,N	039424	1	103	220-240/380-415/50/3	
BLOCK-TERMINAL-7 POLE GREEN	024156	1	103	220-240/380-415/50/3	
COMPRESSOR L63A183DBDA	048741-33	1	512	220-240/50/3	
COMPRESSOR L63A183BBKA	048741-40	1	512	220-240/50/1	
+CAPACITOR-RUN- 35UF/440V	048132	1	103		
+RELAY-START-COMPRESSOR	049240	1	103		
+CAPACITOR-START-270-324UF/330V	049655	1	103		
COMPRESSOR L63A183DBEA	048741-58	1	512	220-240/380-415/50/3	
DIAGRAM-WIRING *110-220*	030385-33	1	000	220-240/50/3	
DIAGRAM-WIRING *110-220*	030385-34G	1	000	220-240/50/1	
DIAGRAM-WIRING *110-220*	030385-62	1	000	220-240/380-415/50/3	
MOTOR-1.5 HP	021522-34	1	212	220-240/50/1	
MOTOR-1.5 HP	021522-35	1	212	220-240/380-415/50/3	
PANEL-FRONT LOWER *220*HP62	049441-SP	1	103	220-240/380-415/50/3	
PULLEY-2AW375 X .625-.6265	031221	1	103	BEATER MOTOR - 1 & 3 PHASE	
STARTER-3 PH 1.4 TO 2.3A 5HP	041950-33G	1	103	220-240/380-415/50/3	

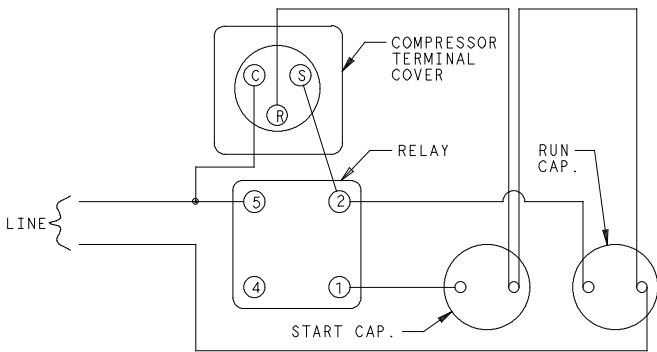
+ Available Separately



NOTES:

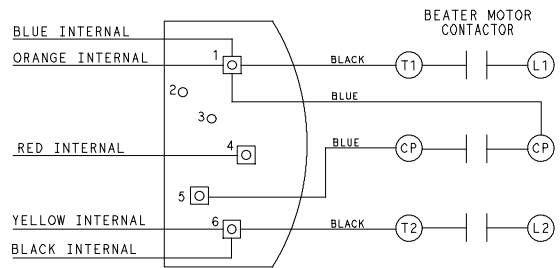
1. GROUND FRAME SECURELY. COMPRESSOR AND BEATER PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS.
2. DIAL LIGHT ON WHEN COMPRESSOR ON AND OFF WHEN COMPRESSOR OFF.
3. BUZZER (OPTIONAL) SIGNALS COMPRESSOR OFF.

COMPRESSOR WIRING DETAIL

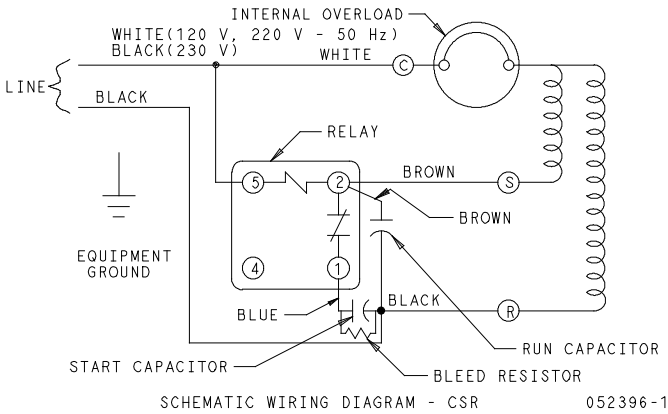


ABOVE ELECTRICAL DIAGRAM SHOWS WIRING NECESSARY TO HOOK UP A COMPRESSOR USING A START AND RUN CAPACITOR (CSR) WITH A RELAY.

MAGNETEK BEATER MOTOR WIRING



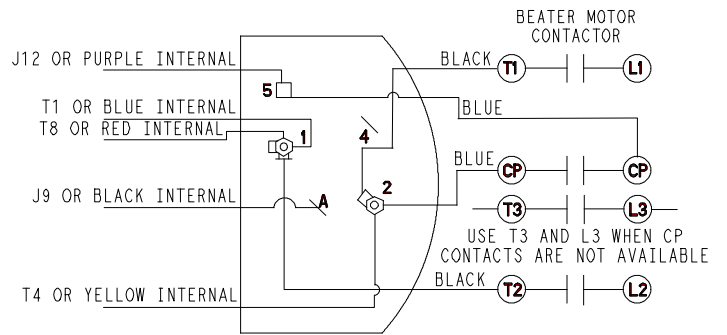
- STEPS:
 1. REMOVE BROWN JUMPER FROM BETWEEN TERMINAL #1 TO TERMINAL #5
 2. MOVE BLUE INTERNAL (FROM MOTOR MAIN WINDING) FROM TERMINAL #5 TO TERMINAL #1.
 NOTE: FOR CCWLE - BLUE INTERNAL ON #1, YELLOW INTERNAL ON #6

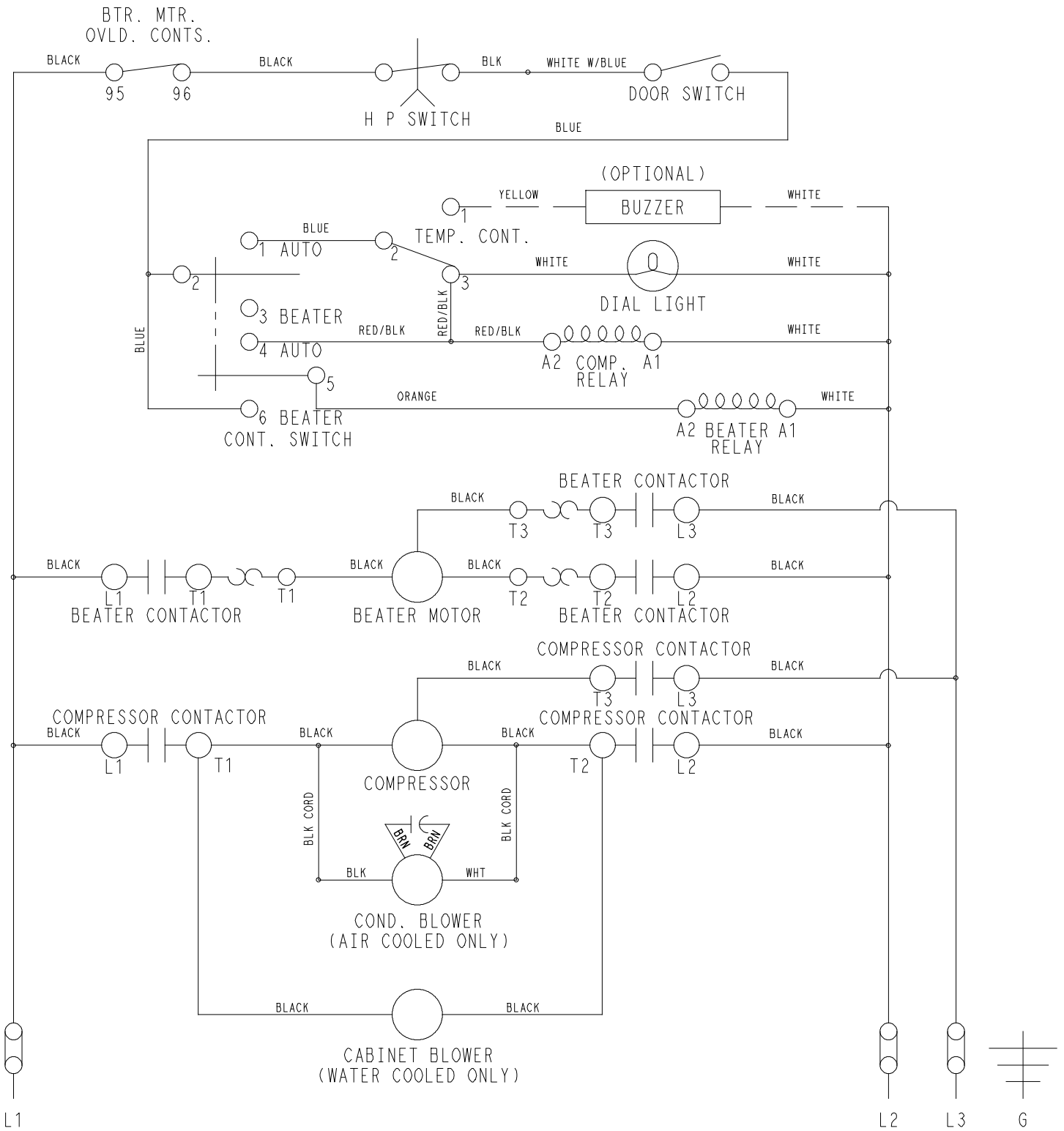


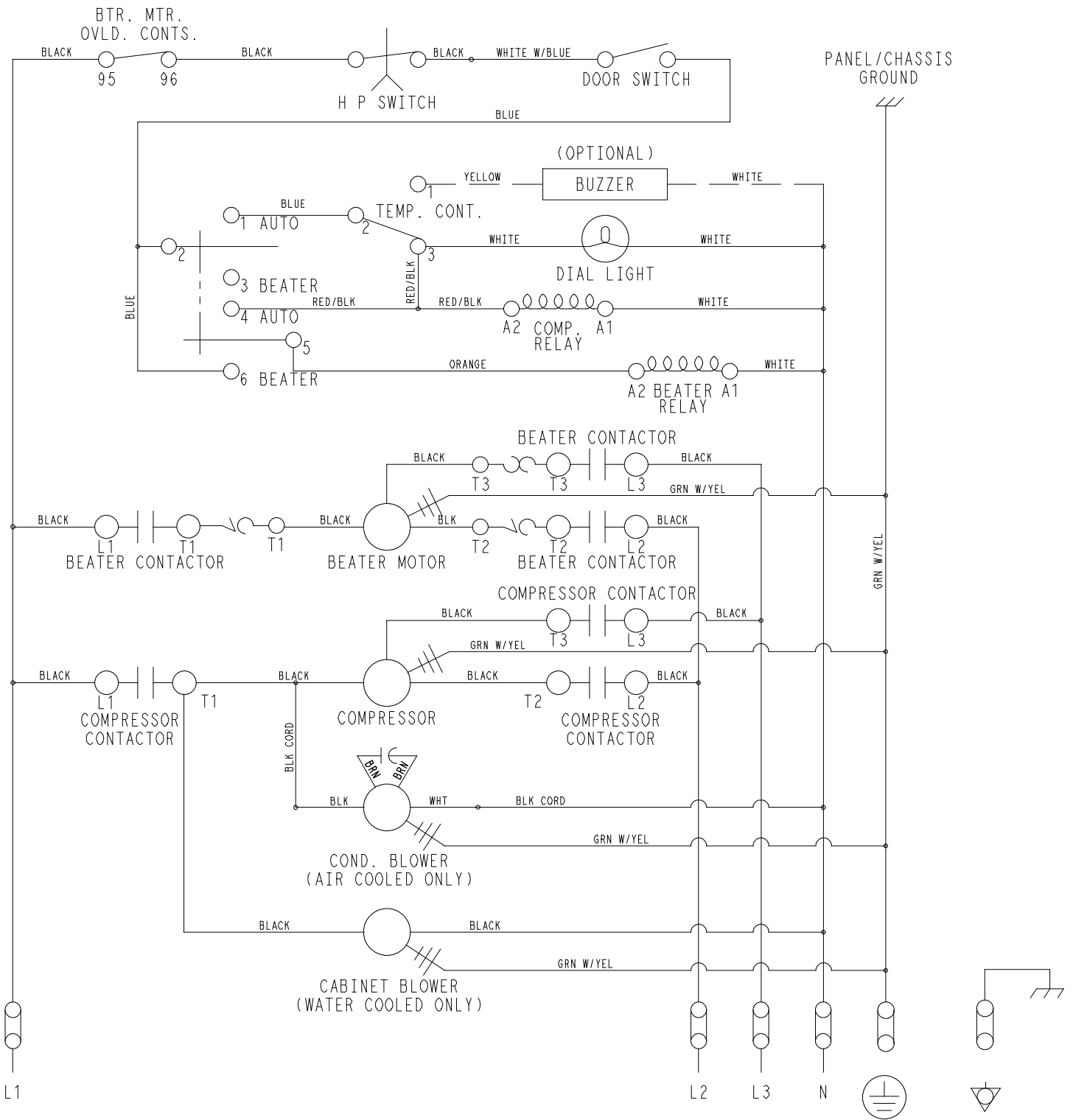
SCHEMATIC WIRING DIAGRAM - CSR 052396-1

GE/RBC BEATER MOTOR WIRING

NOTE: FOR CCWLE - BLUE INTERNAL ON #1, YELLOW INTERNAL ON #2







EQUIPOTENTIAL
GROUND

Model 220
030385-62
3/10