

Model PH61

Heat Treatment Shake Freezer

Operating Instructions



048119-M

7/31/07

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Taylor Distributor:		
Address:		
	on the data label:	
Model Number:		
Serial Number:		
		Cycle
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Maximum Fuse Siz		Δ
		Δ

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

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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.

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 29CFRI910.147 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.

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

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.

Air Cooled Units

Air cooled units require a minimum of 6" (152 mm) of clearance around all sides of the freezer. Failure to allow adequate clearance can reduce the refrigeration capacity of the freezer and possibly cause permanent damage to the compressors.

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.

Water Connections

(Water Cooled Units Only)

An adequate cold water supply must be provided with a hand shut-off valve. On the rear of the unit, two 3/8" I.P.S. water connections for inlet and outlet have been provided for easy hook-up. 1/2" 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. Compliance therewith and proper maintenance will result in an installation essentially free from hazard!

In all other areas of the world, equipment should be installed in accordance with the existing local codes. Please contact your local authorities.

FOLLOW YOUR LOCAL ELECTRICAL CODES!

Each freezer requires one power supply. Check the data label on the freezer for fuse, circuit ampacity and electrical specifications. Refer to the wiring diagram provided inside of the electrical 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.

080910

Beater Rotation



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

Note: The following procedures should be performed by a trained service technician.

To correct 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 diagram printed on motor.)

Electrical connections are made directly to the terminal block. The terminal block is provided in the main control box located behind the rear 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.



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.

To the Installer

3

Section 2

To the Operator

The freezer you have purchased has been carefully engineered and manufactured to give you dependable operation. When properly operated and cared for, it 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.

The Model PH61 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 personnel responsible for the equipment's operation, both assembly and disassembly, study these procedures in order to be properly trained.

In the event 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.

When your machine is delivered or if it has been in the OFF position for more than 24 hours, disassemble the freezer following procedures found on page 47. Follow assembly procedures on page 25 to re-assemble your machine. Dairy products are susceptible to bacterial contamination due to improper product handling. Therefore, be sure to use clean sanitary conditions when handling mix.

The machine must be disassembled, cleaned, sanitized, and lubricated every two weeks.



During the heat treatment process, the product is brought to a temperature sufficient to destroy bacteria and is returned to a standby temperature.

The special control system will insure that the product is heated and maintained at the set temperature for the full 30 minutes. This time is required to insure that bacteria is destroyed. If the freezer was unable to complete the heating cycle, the LCD will read:

"HEAT TREAT CYCLE FAILURE - FREEZER LOCKED - PRESS SEL KEY". If this is the case, or if you require technical assistance, please contact your local authorized Taylor Distributor.



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.

Section 3

We at Taylor 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.

To Operate Safely:

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

This dispenser is provided with a 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 the removable panel and the frame.



- **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 (example: freezer door, beater, scraper blades, etc.) unless all control switches are in the OFF position.
- **DO NOT** put objects or fingers in door spout or spinner housing.

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

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

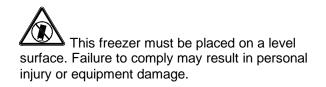
- **DO NOT** put objects or fingers in the door spout. This may contaminate the product and cause severe personal injury from blade contact.
- USE EXTREME CAUTION when removing the beater asssembly. The scraper blades are very sharp.
- **CAUTION-SHARP EDGES:** Two people are required to handle the cup dispenser. Protective gloves must be worn and the mounting holes must NOT be used to lift or hold the dispenser. Failure to follow this instruction can result in personal injury to fingers or equipment damage.

DO NOT draw product during the HEAT cycle because of high product temperatures.



WARNING!

Some consumers are highly allergic to strawberries. In some severe cases, strawberry allergic reactions can cause death. When serving shakes, make sure the draw handle is closed automatically by the portion control device and that the white spot is visible.



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: 6" (152 mm) minimum air space on all sides. Failure to follow this instruction may cause poor freezer performance and damage to the machine.

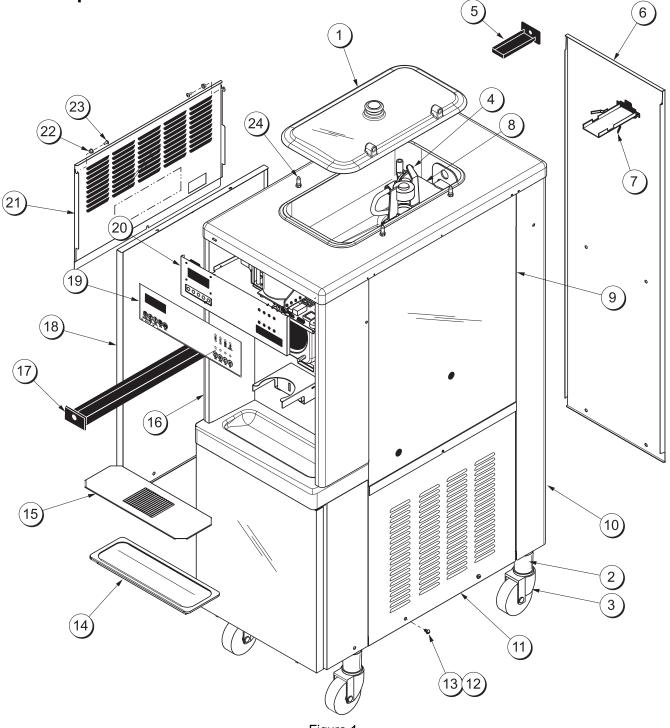
For Indoor Use Only: This unit is designed to operate indoors, under normal ambient temperatures of 70° - 75°F (21° - 24°C). The freezer has successfully performed in high ambient temperatures of 104°(40°C) at reduced capacities.

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.

Safety

Operator Parts Identification

PH61 Exploded View



ITEM	DESCRIPTION	PART NO.
1	Kit ACover-Hopper	X65369
2	Adaptor ACaster	X18915
3	Caster-Swivel 5/8 St. 4 in. Wheel	018794
4	Agitator A.	X44797
5	Pan-Drip-Rear HT	048204
6	Panel-Rear	048203
7	Guide ADrip Pan	X48228
8	Pump AMix Simplified Shake	X57028-14
9	Panel-Side Upper R	056013
10	Trim-Rear Corner R	045517
*	Trim-Rear Corner L	045516
11	Panel-Lower Side R	034680
12	Screw-1/4-20 x 3/8	011694

Model PH61 Parts Identification List

ITEM	DESCRIPTION	PART NO.
13	Fastener-Clip	045865
14	Tray-Drip 14-7/8 L	013690
15	Shield-Splash	022763
16	Panel AFront	X55436
17	Pan ADrip	X28142
*	Guide ADrip Pan	X45386
18	Panel ALower Side	X24397-SER
19	Decal-Dec	052280
20	Display-Liquid Crystal	X38062-SER
21	Panel-Upper Side	056012
22	Washer-Plastic Pivot	013808
23	Screw-10-24 x 1/2	002077
24	Pin-Retaining- Hopper Cover	043934
*	Tank-Syrup-4 Qt.	045533

*Not Shown

Beater and Door Assembly

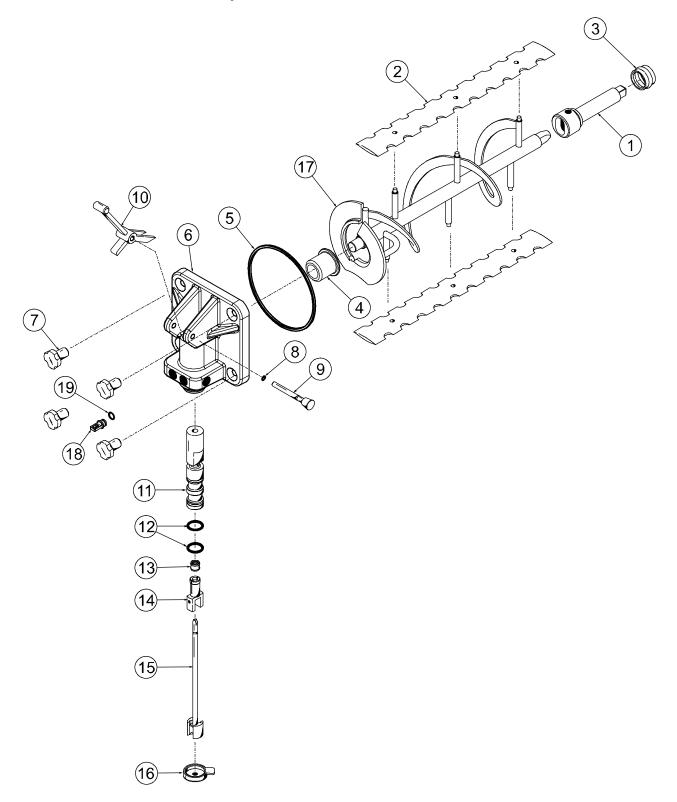


Figure 2

Beater & Door Assembly Parts Identification List

ITEM	DESCRIPTION	PART NO.
1	SHAFT-BEATER-7 QT. FLUTED	050985
2	BLADE-SCRAPER	041103
3	SEAL-DRIVE SHAFT	032560
4	BEARING-FRONT	055605
5	O-RING - FREEZER DOOR	033493
6	DOOR A1 SPT-4 FLV-HT	X55724-SER
7	HANDSCREW (STUD NUT)	034034
8	O-RING - PIVOT PIN	016272
9	PIN APIVOT	X22820
10	HANDLE-DRAW VALVE	034003

ITEM	DESCRIPTION	PART NO.
11	VALVE ADRAW	X42210
12	O-RING - DRAW VALVE	020571
13	SEAL-SPINNER SHAFT	036053
14	SPINNER-DRIVEN	034054
15	BLADE ASPINNER	X41895
16	CAP-RESTRICTOR	033107
17	BEATER ASHAKE	X50958
18	PLUG-SYRUP HOLE	026278
19	O-RING	024278

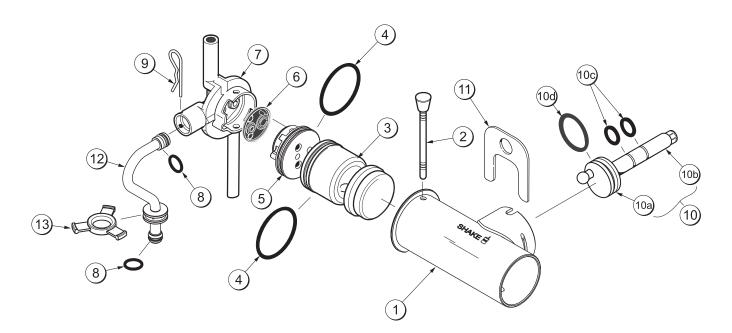
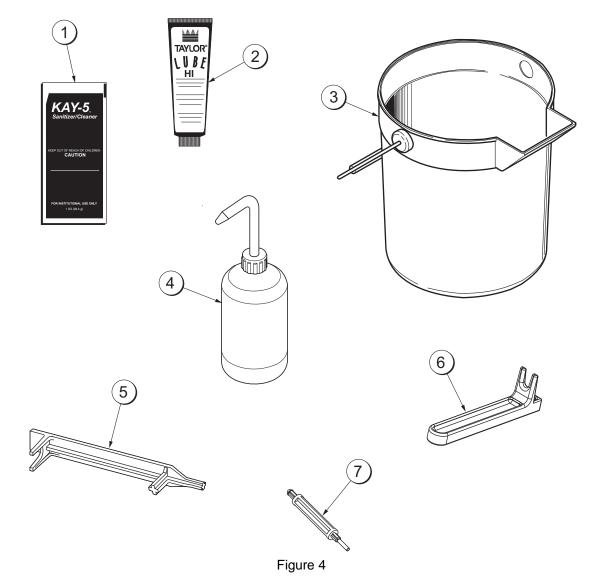


Figure 3

ITEM	DESCRIPTION	PART NO.
1 - 7	PUMP ASSEMBLY - MIX SIMPLIFIED SHAKE	X57028-14
1	CYLINDER-PUMP-HOPPER- SHAKE	057944
2	PIN ACOAX PUMP	X55450
3	PISTON	053526
4	O-RING 2-1/8" OD - RED	020051
5	CAP-VALVE	056873-14
6	GASKET - SIMPLIFIED PUMP VALVE	053527
7	ADAPTOR-MIX INLET SHAKE - BLUE	054944
8	O-RING - 11/16 OD - RED	016132

ITEM	DESCRIPTION	PART NO.
9	PIN - COTTER	044731
10	SHAFT ADRIVE-MIX PUMP- HOPPER	X41947
10a	CRANK-DRIVE	039235
10b	SHAFT-DRIVE	041948
10c	O-RING - DRIVE SHAFT	048632
10d	O-RING 1-3/4	008904
11	CLIP-MIX PUMP RETAINER	044641
12	TUBE AFEED-HOPPER SHAKE	X56522
13	RING-CHECK .120 OD	056524

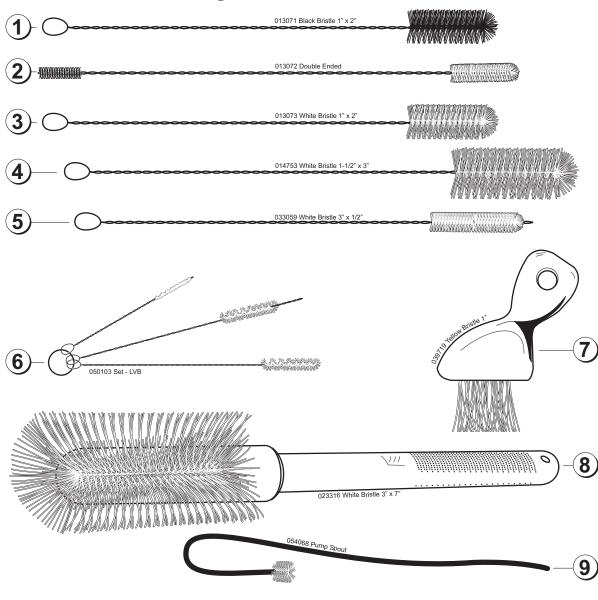
Accessories



ITEM	DESCRIPTION	PART NO.
1	SANITIZER KAY-5 (125 PACKS)	041082
2	LUBRICANT-TAYLOR HI-PERF.	048232
3	PAIL-MIX 10 QT.	013163
4	BOTTLE ASQUEEZE	X45080
5	TOOL-SHAFT-DRIVE PUMP HPR/LVB	047919
6	TOOL-SHAFT-DRIVE PUMP HPR	057167
7	TOOL-SEAL-INSTALL/REMOVE	035460

ITEM	DESCRIPTION	PART NO.
*	KIT APARTS TRAY SIMPL PMP (Consists of 056525 & 044118 Trays - see parts list, page NO TAG)	X58447
*	KIT AACCESSORY PH61 (Consists of X44797 Agitator, X54704 Cap, 033107 Cap Restrictor, & 041923 O-Ring)	X48127
*	KIT-TUNE UP SIMPL PUMP	X49463-63

*NOT SHOWN



X44127 Brush A.-Package-HT

Figure 5

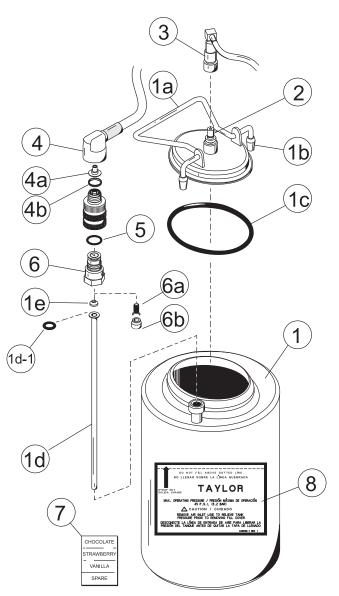
ITEM	DESCRIPTION	PART NO.
1	Black Bristle Brush	013071
2	Double End Brush	013072
3	White Bristle Brush (1" x 2")	013073
4	White Bristle Brush (1-1/2" x 3")	014753
5	White Bristle Brush (1/2" x 3")	033059

045079 3-3/4"

	ITEM	DESCRIPTION	PART NO.
ſ	6	Brush Set (3)	050103
ſ	7	Yellow Bristle Brush	039719
	8	White Bristle (3" x 7")	023316
	9	Brush-Pump Spout	054068
ſ	10	Brush-Syrup Port	045079

10

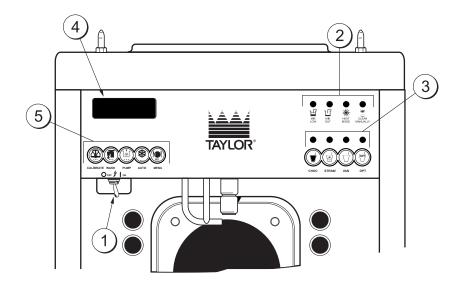
Syrup Tank



ITEM	DESCRIPTION	PART NO.
1	TANK-SYRUP 4 QT.	045533
1a	COVER-TANK	035759-1
1b*	TIP-NYLON WHITE	042747
TD	TIP-NYLON GREY	024261
1c	O-RING-3.437 ID	016037
1d	TUBE-DIP SYRUP TANK	015441-7
1d-1	O-RING .291 ID	018550
1e	WASHER-1/4 FLARE	018595
2	PLUG-Q.D. C02	021077
3	SOCKET-QD C02	021524

ITEM	DESCRIPTION	PART NO.
4	SOCKET-QD LIQ. 90 DEG.	021026
4a**	RESTRICTOR-SYRUP	030917
4b	GASKET-RUBBER	023551
5	O-RING-5/8 OD	016030
6	PLUG-QD LIQ.	021081
6a	VALVE AQD PLUG	021081-2
6b	INSERT-QD PLUG VALVE	021081-1
7	DECAL-SET OF 4 SYRUP FLAV	021523
8	DECAL-SYRUP TANK	045533-1

DUAL SUPPLIER - ORDER AS NEEDED. **NOT USED ON CHOCOLATE.

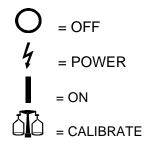


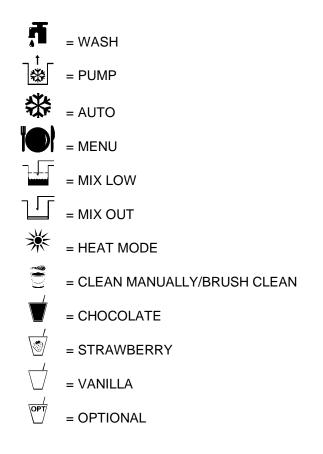
ltem	Description
1	Power Switch
2	Indicator Lights
3	Flavor Selector Keypad
4	Liquid Crystal Display
5	Keys

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.





Power Switch

The power switch is located under the control panel on the left hand side of the unit. When placed in the ON position, the power switch allows softech panel operation.

Liquid Crystal Display

The Liquid Crystal Display (LCD) is located on the front control panel. The LCD is used to show in what mode the freezer is operating and whether or not there is sufficient mix.

Indicator Lights

MIX LOW - When the MIX LOW light begins to flash, it indicates the mix hopper has a low supply of mix and should be refilled as soon as possible. The word "LOW" will also display on the LCD indicator next to the word "MIX".

MIX OUT - When the MIX OUT light begins to flash, it indicates the mix hopper has been almost completely exhausted and has an insufficient supply of mix to operate the freezer. The word "OUT" will also display on the LCD indicator next to the word "MIX". At this time, the AUTO mode is locked out and the freezer will be placed in the STANDBY mode. To initiate the refrigeration system, add mix to the mix hopper and press the AUTO key. The freezer will automatically begin operation.

HEAT MODE - When the HEAT MODE light is flashing, it indicates that the freezer is in the process of a heat cycle.

CLEAN MANUALLY - When the CLEAN MANUALLY light is flashing, it indicates that the machine must be disassembled and brush cleaned within 24 hours.

When all four indicator lights are flashing, this signifies a locked condition. Once a hard lock condition has been remedied, two lights will remain flashing until the mix low and mix out conditions have been satisfied. During a soft lock condition, all four lights will stop flashing once the unit has been placed in a heat cycle.

Reset Mechanism

The reset button is located in the right side panel. The reset mechanism protects the beater motor from an overload condition. Should an overload occur, the reset mechanism will trip. To properly reset the freezer, place the power switch in the OFF position. Press the reset button firmly. Turn the power switch to the ON position. Clear the fault. Press the WASH key and observe the freezer's performance. Open the side access panel to check if the beater motor is turning the drive shaft in a clockwise (from the operator end) direction without binding.

WARNING: Do not use metal objects to press the reset button. Failure to follow this instruction may result in serious electrical shock.

If the beater motor is turning properly, press the WASH key to cancel the cycle. Press the AUTO key to resume normal operation. If the freezer shuts down again, contact a service technician.

Operating Screen Descriptions

When the machine is powered the system will initialize. The screen will display "INITIALIZING". There will be four types of data the system will check: LANGUAGE, SYSTEM DATA, CONFIG DATA, and LOCKOUT DATA. During the INITIALIZING... LANGUAGE screen, the alarm will be on. If the system data, configuration data, or lockout history data has become corrupt, the following screen will alert the operator that the system settings may have been changed.

NVRAM FAULT RESET TO DEFAULTS PRESS SEL KEY

Once the system has initialized the SAFETY TIMEOUT screen is displayed and the alarm is turned on.

SAFETY TIMEOUT ANY KEY ABORTS

This screen will be displayed, with the alarm on, for 60 seconds or until any key is pressed.

After the safety timeout has been completed, and the power switch is OFF, one of the following screens is displayed.

The first screen is displayed if the machine is not in a brush clean state. If any of the requirements for a brush clean have not been met, the time displayed will remain at 5:00 minutes. When all the requirements for a brush cleaning are met, and the five minutes expire, the screen will change to the second screen, which is the standard power switch OFF screen.

POWER SWITCH OFF

TIME: 4:40 HOPPER: 62.1 BARREL: 67.7

POWER SWITCH OFF

When the power switch is set in the ON position, the system mode of operation screen is displayed. In this example, the machine is ON, but no mode of operation has been selected. The second line of the display indicates whether there is a sufficient supply of mix in the hopper or if there is a LOW or OUT mix condition. The third line of the display shows the temperature of the mix hopper. After pressing the AUTO key, the last line of the display shows the month and date (MM = month, DD = day) that the machine needs to be disassembled and brush cleaned.

MODE: OFF

HOPPER TEMP: 35.5F UNIT CLEANED

The next display indicates the freezer is operating in two different modes. The following information is given:

The machine is operating in the WASH and PUMP modes, the temperature of the mix hopper is 40° F (4.4°C), and the machine needs to be brush cleaned on October 31st.

MODE: WSH-PMP

HOPPER TEMP: 40.0 F BRUSH CLEAN ON: 10/31

The following displays pertain to the HEAT cycle:

While in the heating phase, you will see this display. It shows the present temperature of the hopper.

MODE: HEAT PHASE: HEAT HOPPER TEMP: 140.0 F BRUSH CLEAN ON: MM/DD The mix temperature must be raised above 151°F (66.1°C) within 90 minutes or the freezer will be locked in STANDBY, and the cycle failure display will appear.

In the example, the hopper temperature is 140° F (60°C). The phase shows that the machine is in the heat phase of the heat treatment cycle.

When the heating phase is complete, the freezer goes into the holding phase of the cycle. The holding phase will hold the temperature above 151°F (66.1°C) for a minimum of 30 minutes.

In this example, the hopper temperature is $151^{\circ}F$ (66.1°C).

MODE: HEAT PHASE: HOLD HOPPER TEMP: 151.0 F BRUSH CLEAN ON: MM/DD

The final phase of the heat treatment cycle is the cooling phase. Now the freezer must cool the mix below $41^{\circ}F$ (5°C). If the product fails to cool in two hours, the freezer will lock out.

This example illustrates that the temperature is being lowered, but has not yet reached the set point.

MODE: HEAT PHASE: COOL HOPPER TEMP: 55.0 F BRUSH CLEAN ON: MM/DD

The entire heat treatment cycle must be completed in four hours.

When the entire heat cycle has been completed, the normal display will appear, showing the machine in the STANDBY mode. The machine may now be placed in the AUTO mode or left in the STANDBY mode.

MODE: STANDBY

HOPPER TEMP: 41.0 F BRUSH CLEAN ON: MM/DD Hard Lock: There are two causes for a hard lock:

1. Fourteen days have elapsed since the last brush cleaning. The following screen will be displayed.

14 DAY TIMEOUT CLEANING REQ'D FREEZER LOCKED PRESS SEL KEY

2. There has been a thermistor failure (freezing cylinder, hopper, or glycol) during the heat treatment process.

SYSTEM FAULT SERVICE REQ'D FREEZER LOCKED PRESS SEL KEY

All four LED's on the front of the freezer will light. Press the SEL key.

The next display is the screen which will appear after the failure message. To comply with health codes, heat treatment system freezers **must** complete a heat treatment cycle daily, and **must** also be brush cleaned every 14 days. Brush cleaning is the normal disassembly and cleaning procedures. Failure to follow these guidelines will cause the control to lock the freezer out of the AUTO mode. Press the WASH key.

NO AUTO OPERATION ALLOWED UNTIL BRUSH CLEANING PRESS WASH KEY

The next display is the screen which will appear after the brush cleaning message and illustrates that the control is in the OFF mode and the machine needs to be disassembled and brush cleaned.

MODE: OFF

HOPPER TEMP: 45.0 F FREEZER LOCKED

19

Soft Lock: If a heat treatment cycle has not been **initiated** within the last 24 hours, all four LED's on the front of the machine will light and a message will appear on the LCD. Line 3 of the LCD will indicate the reason the message appears. Following are the variable messages which will appear on line 3:

- 1. POWER SWITCH OFF: Power switch was in the OFF position.
- 2. MIX OUT PRESENT: There was mix out condition present.
- 3. AUTO OR STANDBY OFF: The unit was not in the AUTO or STANDBY mode.
- NO HEAT CYCLE TRIED: A heat treatment cycle was not attempted in the last 24 hours. (AUTO HEAT TIME was advanced, or a power loss was experienced at the time the cycle was to occur, or a heat cycle failure not due to a thermistor failure.)

NO HEAT TREAT START BECAUSE VARIABLE MESSAGE PRESS SEL KEY

If the following screen appears, a soft lock has occurred **during** the heat treatment cycle.

HEAT TREAT CYCLE FAILURE FREEZER LOCKED PRESS SEL KEY

If the temperature of the product has not fallen below $41^{\circ}F$ (5°C) by the end of the COOL cycle, the following screen will appear.

PRODUCT OVER TEMP FREEZER LOCKED PRESS SEL KEY

Press the SEL key to advance to the next display.

When one of these messages appears, automatic freezer operation cannot take place until the freezer is disassembled and brush cleaned or has completed a heat treatment cycle. The next display will instruct the operator to start a heat treatment cycle manually (by pressing the AUTO key), or to disassemble and brush clean the freezer. If the AUTO key is pressed, the freezer will automatically start the heat treatment cycle and only the heat cycle LED will light.

NO AUTO OPERATION ALLOWED. PRESS AUTO FOR HEAT CYCLE WASH TO BRUSH CLEAN

If the WASH key is pressed, the next display will appear and the freezer will have to be disassembled and brush cleaned.

MODE: OFF

HOPPER TEMP: 41.0F FREEZER LOCKED

Once the freezer is unlocked by starting a heat treatment cycle, only the heat cycle LED will light. If the freezer is unlocked by brush cleaning, the mix low and mix out LED's will light.

Operator Menu

The OPERATOR MENU is used to enter the operator function displays. To access the OPERATOR MENU, simply press the MENU key. The cursor will flash over the letter "A" indicating that this is screen "A". To select a different screen, use the arrow keys and move the cursor to the desired screen selection and press the SEL key.

	OPERATOR MENU A B C D E F G H I J
EXIT FROM MENU <>	SEL

Screen "B" is FAULT DESCRIPTION. The fault description will indicate if there is a fault with the freezer and the side of the freezer where the fault occurred. To clear the tone for any faults which have been corrected, press the left arrow key. To see if there is more than one fault per cylinder, press the SEL key. When the last fault is displayed, the control will return to the OPERATOR MENU. To return to the main screen, move the cursor to "A" and press the SEL key again. Listed below are the variable messages which will appear, along with the corrective action:

- 1. NO FAULT FOUND: There was no fault found in the freezer. Nothing will appear on the screen after this variable message appears.
- 2. BEATER OVERLOAD: Press the reset button firmly. Clear the tone.
- 3. HPCO COMPRESSOR: Place the power switch in the OFF position. Wait 5 minutes for the machine to cool. Place the power switch in the ON position. Clear the tone.
- 4. COMP ON TOO LONG: Place the power switch in the OFF position. Call service technician. Clear the tone.
- 5. HOPPER THERM BAD: Place the power switch in the OFF position. Call service technician.
- 6. BARREL THERM BAD: Place the power switch in the OFF position. Call service technician.
- 7. GLYCOL THERM BAD: Place the power switch in the OFF position. Call service technician.

- 8. HOPPER OVER TEMP: The hopper temperature has risen too high as follows. Clear the tone.
 - a. The hopper temperature reaches 41°F (5°C) or higher after a power failure.
 - b. The hopper temperature has not fallen below 41°F (5°C) by the end of the COOL phase in the heat cycle.
- 9. BARREL OVER TEMP: The barrel temperature has risen too high as follows. Clear the tone.
 - a. The barrel temperature reaches 41°F (5°C) or higher after a power failure.
 - b. The barrel temperature has not fallen below 41°F (5°C) by the end of the COOL phase in the heat cycle.
- 10. POWER FAILURE: This message will appear in the FAULT DESCRIPTION if a power failure has occurred. Clear the tone.

FAULT DESCRIPTION VARIABLE MESSAGE

CLR

SEL

Screen "C" is SET CLOCK. This option allows the Manager to adjust the control clock date and time. The date and time may only be changed after the freezer has been manually cleaned but before it has been placed in the AUTO or STANDBY mode. The following message will be displayed if the SET CLOCK option is selected when the machine is not in a brush clean state.

SET CLOCK 12:01 7/21/2007 NO CHANGES ALLOWED

Press Any Key

21 In Download from Www.Somanuals.com. All Manuals Search And Download. To change the date or time, select the SET CLOCK option in the menu. Touch the UP arrow symbol to advance the arrow from Exit to Change, then touch the SEL key to select the Change option.

SET CLOCK 12:01 Change > Exit

7/21/2007

Change the time by touching the UP arrow with the cursor under the hour position. Move the cursor to the minutes position by touching the SEL symbol. Once the correct minutes are entered, touch the SEL key to advance the cursor to the month.

SET CLOCK <u>12</u> :01	7/21/2007
> Exit	

Enter the correct month, day, and year. Then touch the SEL symbol to advance to the DAYLIGHT SAVING TIME screen.

	DAYLIGHT SAVING TIME ENABLED
>	Enable Disable

The Daylight Saving feature, when enabled, will automatically adjust the control clock for daylight saving time. To disable the Daylight Saving Time feature, touch the DOWN arrow to move the arrow to "Disable". Then touch the SEL key to save the new setting. Screen "D" is SYSTEM INFORMATION. The first screen will indicate the software version used in the unit.

SOFTWARE VERSION PH61 Control UVC2 Version 2.00

SEL

Press the SEL key to view the second screen of the SYSTEM INFORMATION display. This screen will indicate the Bill of Material number and serial number for the unit. Press the SEL key once to return to the Operator Menu.

B.O.M. S/N	PH6133R907 K0000000	
		SEL

Screen "E" is AUTO HEAT TIME. This screen is used to set the time of day in which the heat treatment cycle will start. Move the cursor under the number you wish to change. Press the plus key to increase the number; press the minus key to decrease the number. When the desired time appears, press the SEL key once to return to the OPERATOR MENU.

AUTO HEAT TIME TIME: 12:00 AM		
 <> +++	 SEL	

Screen "F" is CURRENT CONDITIONS. This screen gives the viscosity of the product and the hopper and barrel temperatures. The last line of the display is the compressor countdown safety timer. The safety timer prevents the compressor from running more than 11 minutes (other than during the cooling phase of the heat treatment cycle).

Press the SEL key once to view the SERVINGS COUNTER screen.

VISC	HOPPER	BARREL
0	38.5	28.5
ТІМЕ С	11:00	11:00

The SERVINGS COUNTER screen indicates the number of times the draw switch has closed (number of draws) since the last brush cleaning or since the last serving counter reset. A maximum of 32,767 draws can be recorded; an additional draw will cause the counter to restart at zero. Pressing the MENU key/SEL will return the display to the Operator Menu.

SERVINGS COUNTER DRAWS 12

Draws are counted during the AUTO mode of operation only.

Screen "G" is HEAT CYCLE DATA. The information from the previous heat treatment cycles can be obtained through this screen. The most recent heat treatment cycle data will be shown first; press the plus key to scroll through the remaining heat cycle displays. If a heat treatment cycle failure should occur, a 2 character message will appear on the second line of the screen. Press the SEL key once to return to the OPERATOR MENU.

Listed below are the variable messages which could appear:

- HT Failure in the heating phase.
- CL Failure in the cooling phase.
- TT Failure in meeting total heat treatment cycle time requirement.
- Mix out condition. MO
- OP Operator interruption.
- PF Power failure. (If a power failure occurs, but the heat treatment cycle does not fail, an asterisk (*) will appear on the third line of the display.)
- BO Beater overload.
- HO High pressure cut-out.
- Failed thermistor probe. TH
- PS Power switch placed in the OFF position.
- ML Mix Low Condition.
- 14 14 Day Timeout Occurred.
- RC Heat Cycle Record Cleared.

11/07 HEAT	02:00 OVER	05:09 COOL	хх
01:09	00:45	01:14	
TEMP AT END	38.5		1

Pressing the left arrow key on any HEAT CYCLE DATA screen will cause the extended data screen to be displayed. This screen shows the hopper, barrel, and glycol temperatures, and the amount of time the freezer spent in the phases of the heat cycle when the heat cycle completed, or was terminated.

HOPPER	BARREL	GLYCOL
151.0	134.5	178.0
PHASE TIME: 1:20		1

SEL

Screen "H" is the LOCKOUT HISTORY. This screen displays a history of the last 40 hard locks, soft locks, and brush clean dates. Page numbers are indicated in the upper right hand corner. Page 1 always contains the most recent failure. Press the PUMP key to cycle through the pages.

The second line of the screen displays the date and time a failure occurs. The third line indicates the reason for a failure, or will indicate a successful brush cleaning has occurred. Some failures occur for multiple reasons. When this occurs, a page will be generated for each reason. Press the SEL key once to return to the Operator Menu, or twice to return to the Main Screen.

LOCKOUT HIS	STORY	1
7/21/07 SOFTLOCK A	02:08	
SUFILUCKA	BORT +++	 SEL

Screen "I" is the SERVICE MENU. This screen can only be accessed by a service technician.

Screen "J" is the STANDBY MODE. To place the freezer in the STANDBY mode, move the cursor under the word "yes". Press the SEL key to execute the command. Pressing the SEL key again will return you to the main screen. To exit the STANDBY mode and place the unit in AUTO, press the AUTO key once. Pressing the AUTO key again will place the unit in the OFF mode.

STANDBY MODE STANDBY	YES	NO	
<>			SEL

Section 6

Equipment Set Up

Evaluate the condition of lights and screen messages (Hard Lock or Soft Lock, etc.) before performing opening procedures. If all four LED's on the front of the unit are lit, the unit is locked. (See Figure 6.)

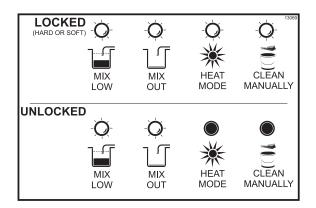


Figure 6

We begin our instructions at the point where we enter the store in the morning and find the parts disassembled and laid out to air dry from the previous night's cleaning.

These opening procedures will show you how to assemble these parts into the freezer, sanitize them, and prime the freezer with fresh mix in preparation to serve your first portion.

If you are disassembling the machine for the first time or need information to get to the starting point in our instructions, turn to the Closing Procedures on page 45, and start there.

Freezing Cylinder Assembly

Make sure the power switch is in the OFF position. Failure to follow this instruction may result in severe personal injury from hazardous moving parts.

With the parts tray available:

Step 1

Before installing the shake beater drive shaft, lubricate the groove on the beater drive shaft. Slide the beater drive shaft boot seal over the small end of the beater drive shaft and engage into the groove on the shaft. Heavily lubricate the inside portion of the boot seal and also lubricate the flat end of the boot seal that comes in contact with the rear shell bearing.

Apply an even coat of lubricant to the shaft. DO NOT lubricate the square end. (See Figure 7.)

Note: When lubricating parts, use an approved food grade lubricant (example: Taylor Lube HP).

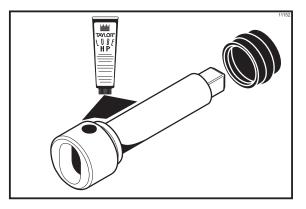
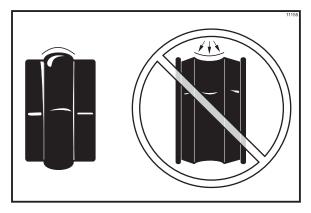


Figure 7

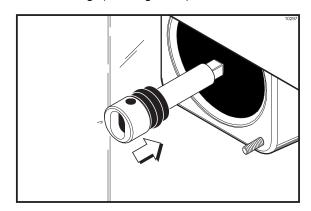
Note: To ensure that the mix does not leak out of the back of the freezing cylinder, the middle section of the boot seal should be convex or extend out from the seal. If the middle section of the boot seal is concave or extending into the middle of the seal, turn the seal inside out. (See Figure 8.)





Step 2

Install the beater drive shaft through the rear shell bearing in the freezing cylinder and engage the square end firmly into the drive shaft coupling. Be sure the drive shaft fits into the drive coupling without binding. (See Figure 9.)





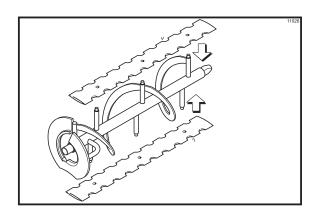
Step 3

Check scraper blades for any nicks or signs of wear. If any nicks are present, replace the blades.

Note: Scraper blades should be replaced every 6 months.

Step 4

If blades are in good condition, place each scraper blade over the holding pins on the beater assembly. (See Figure 10.)





Note: The holes in the scraper blade must fit over the pins to prevent damage.

Step 5

Hold the blades on the beater assembly. Insert the back of the beater assembly into the freezing cylinder and connect the drive hole with the drive shaft. (See Figure 11.)

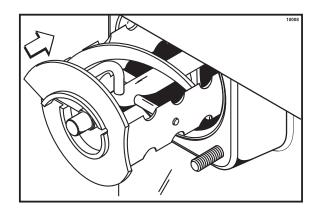
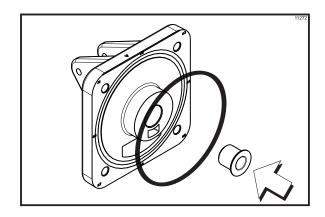


Figure 11

Note: When properly seated, the beater will not protrude beyond the front of the freezing cylinder.

Place the freezer door o-ring into the groove on the back of the freezer door. DO NOT lubricate the o-ring. Lubricate the outside diameter of the front bearing. Slide the front bearing into the door hub. (See Figure 12.)





Step 7

Position the freezer door on the 4 studs on the front of the freezing cylinder. Install the handscrews. Tighten equally in a criss-cross pattern to insure the door is snug. **Do not over-tighten.** (See Figure 13.)

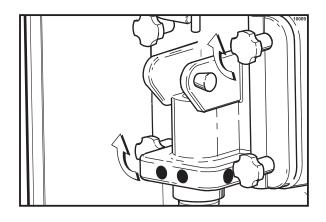


Figure 13

Step 8

Assemble the draw valve spinner assembly. Inspect draw valve o-rings for cuts or nicks. (Replace if cut or nicked.) If draw valve o-rings are in good condition, slide the 2 o-rings into the grooves of the draw valve and lubricate. (See Figure 14.)

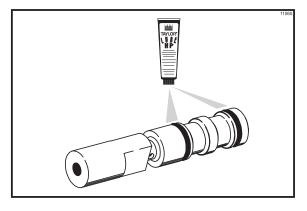


Figure 14

Step 9

Lubricate the outer diameter of the spinner shaft seal. Fill the cups on each end of the seal with lubricant. Insert the spinner shaft seal into the bottom of the draw valve as far as it will go. The spinner shaft seal should fit into the seal groove located inside the draw valve cavity.

Important: Inspect to see that the spinner shaft seal is correctly installed in the groove. A worn, missing, or improperly installed spinner shaft seal will cause product leakage out the top of the draw valve. (See Figure 15)

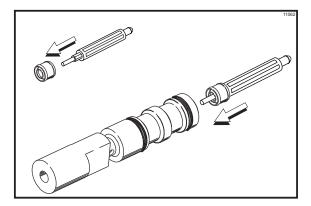
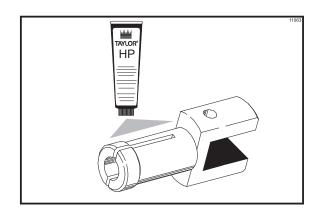


Figure 15

Lubricate the smaller end of the driven spinner. (See Figure 16.)





Step 11

Squeezing the split end together, insert the driven spinner through the metal opening of the draw valve until it snaps into place. (See Figure 17.)

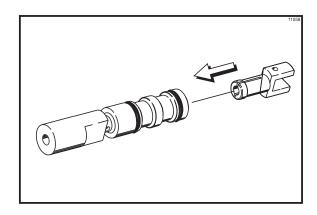


Figure 17

Step 12

Lubricate the inside of the freezer door spout, top and bottom. (See Figure 18.)

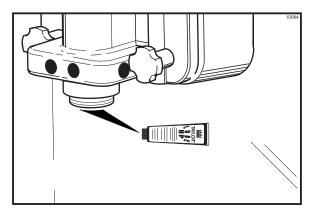


Figure 18

Step 13

Insert the draw valve spinner assembly from the bottom until the slot in the draw valve which accepts the draw handle comes into view. (See Figure 19.)

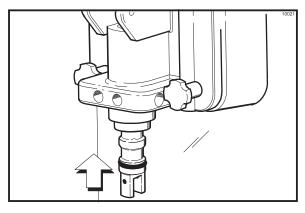


Figure 19

Step 14

Install and lubricate the pivot pin o-ring. (See Figure 20.)

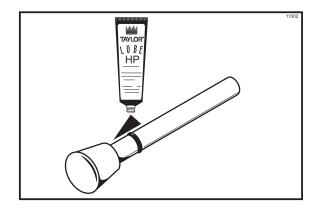
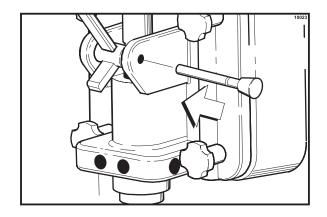


Figure 20

With the stopping tab of the draw handle facing down, slide the fork of the draw handle into the slot of the draw valve. Secure the draw handle with the pivot pin. (See Figure 21.)





Step 16

Lubricate the shaft of the spinner blade up to the groove. (See Figure 22.)

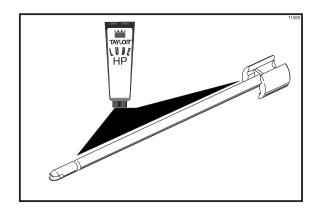


Figure 22

Step 17

Insert the spinner blade shaft from the bottom, into the center of the driven spinner, and up through the draw valve cavity until the shaft appears at the top of the draw valve. The spinner blade must be aligned and engaged to the driven spinner at the bottom. This allows the spinner shaft to raise high enough to be engaged into the spinner coupling at the top. (See Figure 23.)

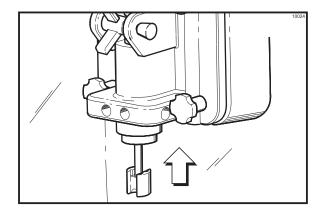


Figure 23

Step 18

Raise the locking collar of the spinner coupling and insert the spinner shaft into the cavity of the coupling until the locking collar can drop into the locked position. (See Figure 24.)

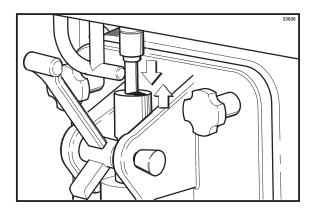


Figure 24

Snap the restrictor cap over the end of the door spout. (See Figure 25.)

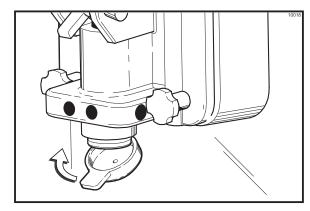


Figure 25

Step 20

Slide the long drip pan into the hole in the front panel.

Step 21

Slide the short drip pan into the hole in the rear panel.

Step 22

Install the front drip tray and splash shield under the door spout. (See Figure 26.)

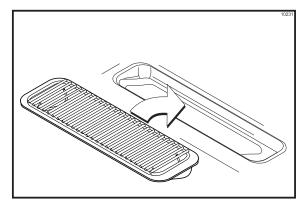


Figure 26

Mix Hopper Assembly

With the parts trays available:

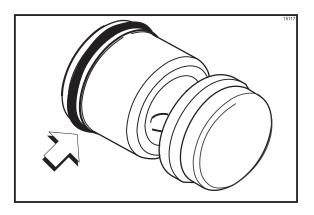
Step 1

Inspect the rubber pump parts. O-rings and gasket must be in 100% good condition for the pump and entire machine to operate properly. The o-rings and gasket cannot properly serve their intended function if nicks, cuts, or holes in the material are present.

Replace any defective parts immediately and discard the old.

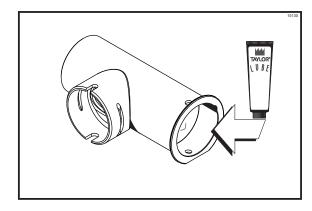
Step 2

Assemble the piston. Slide the red o-ring into the groove of the piston. DO NOT lubricate the o-ring. (See Figure 27.)





Apply a thin layer of lubricant to the inside of the pump cylinder at the retaining pin hole end. (See Figure 28.)





Step 4

Insert the piston into the retaining pin hole end of the pump cylinder. (See Figure 29.)

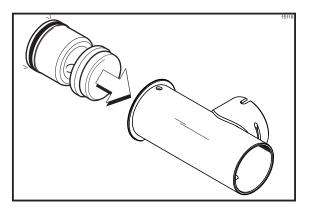
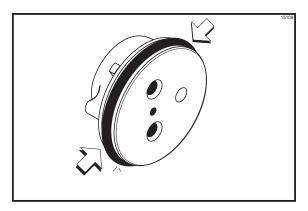


Figure 29

Step 5

Assemble the valve cap. Slide the red o-ring into the groove of the valve cap. DO NOT lubricate the o-ring. (See Figure 30.)





Step 6

Slide the pump valve gasket into the holes on the cap. DO NOT lubricate the gasket. (See Figure 31.)

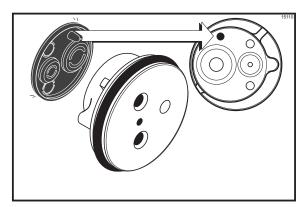


Figure 31

Insert the valve cap into the hole in the mix inlet adapter. (See Figure 32.)

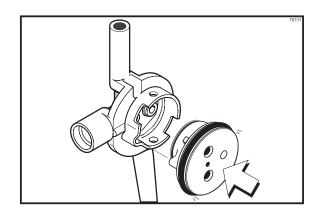
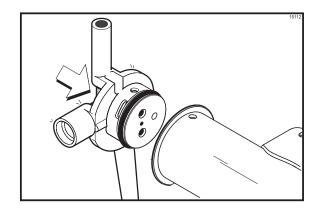


Figure 32

Step 8

Insert the mix inlet assembly into the pump cylinder. (See Figure 33.)





Note: The adapter must be positioned into the notch located at the end of the pump cylinder.

Step 9

Secure the pump parts in position by sliding the retaining pin through the cross holes located at one end of the pump cylinder. (See Figure 34.)

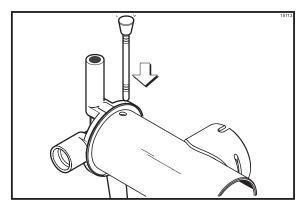


Figure 34

Note: The head of the retaining pin should located at the top of the pump when installed.

Step 10

Assemble the feed tube assembly. Slide the check ring into the groove of the feed tube. (See Figure 35.)

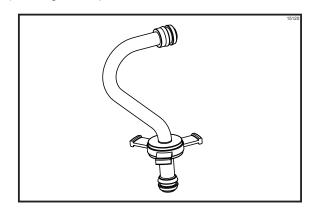
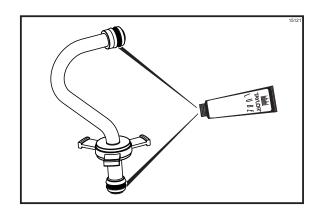


Figure 35

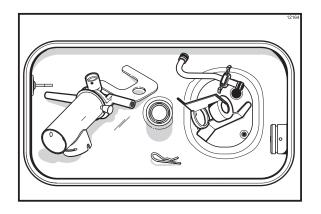
Install one red o-ring on each end of the mix feed tube, and thoroughly lubricate. (See Figure 36.)





Step 12

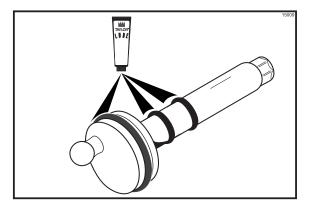
Lay the pump assembly, pump clip, feed tube, cotter pin and agitator in the bottom of the mix hopper for sanitizing. (See Figure 37.)





Step 13

Slide the large black o-ring and the two smaller black o-rings into the grooves on the drive shaft. Thoroughly lubricate the o-rings and shaft. DO NOT lubricate the hex end of the shaft. (See Figure 38.)





Step 14

Install the hex end of the drive shaft into the drive hub at the rear wall of the mix hopper. (See Figure 39.)

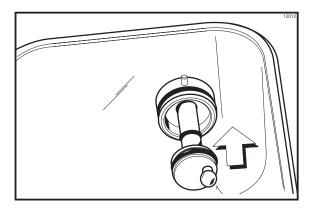


Figure 39

Note: For ease in installing the pump, position the ball crank of the drive shaft in the 3 o'clock position.

Operating Procedures

080910

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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.

Step 2

Pour the sanitizing solution over all parts in the bottom of the mix hopper and allow it to flow into the freezing cylinder.

Note: You have just sanitized the mix hopper and parts; therefore, be sure your hands are clean and sanitized before going on in these instructions.

Step 3

Using the white hopper brush, clean the mix level sensing probes, the mix hopper, mix inlet hole, the outside of the agitator drive shaft housing, the agitator, the air/mix pump, pump clip, mix feed tube and cotter pin.

Step 4

Prepare another 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.

Step 5

Install the air/mix pump assembly at the rear of the mix hopper. To position the pump on the drive hub, align the drive slot in the piston with the drive crank of the drive shaft. Secure the pump in place by slipping the pump clip over the collar of the pump, making sure the clip fits into the grooves in the collar. (See Figure 40.)

Step 6

Note: Install the pump end of the mix feed tube and secure with the cotter pin. Failure to follow this instruction could result in sanitizer spraying on the operator.

Step 7

Pour the sanitizing solution into the mix hopper. The sanitizing solution should be within 1" (25 mm) of the top of the hopper.

Step 8

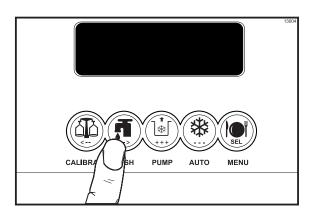
Using the white hopper brush, scrub the exposed sides of the hopper.

Step 9

Place the power switch to the ON position.

Step 10

Press the WASH key. This will cause the sanitizing solution in the freezing cylinder to come in contact with all areas of the freezing cylinder. Allow the sanitizing solution to agitate for five minutes. (See Figure 41.)





Step 11

With a pail beneath the door spout, open and close the draw valve six times.

Step 12

Press the PUMP key to sanitize the inside of the air/mix pump.

Step 13

Open the draw valve and draw off all the remaining sanitizing solution.

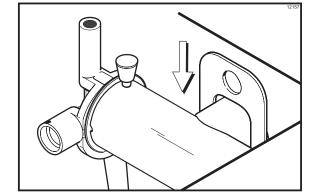


Figure 40

Press the WASH and PUMP keys to stop the WASH and PUMP modes. Close the draw valve. (See Figure 42.)

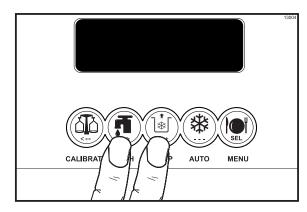


Figure 42

Note: Be sure your hands are clean and sanitized before going on in these instructions.

Step 15

Place the agitator on the agitator drive shaft housing. (See Figure 43.)

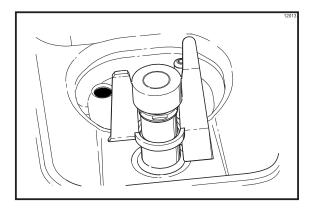


Figure 43

Note: If the agitator paddle should stop turning during normal operation, with **sanitized hands**, remove the agitator from the agitator drive shaft housing and brush clean with sanitizing solution. Install the agitator back onto the agitator drive shaft housing.

Step 16

Remove the restrictor cap.

Step 17

Return to the freezer with a small amount of sanitizing solution. With a pail below the door spout, dip the door spout brush into the sanitizing solution and brush clean the syrup ports in the freezer door, door spout, bottom of the driven spinner and spinner blade, and syrup line fittings.

To assure sanitary conditions are maintained, brush clean each item for a total of 60 seconds, repeatedly dipping the brush in sanitizing solution.

Step 18

With the syrup port brush, brush each syrup port hole 10 to 15 times. Dip the brush in sanitizing solution before brushing each port.

Step 19

Fill the squeeze bottle with sanitizing solution. With a pail beneath the door, insert the tube end of the squeeze bottle into the syrup port, and squeeze the bottle firmly. This action will force solution out of the adjacent port and down around the spinner.

This procedure should be performed for at least 10 seconds per port.

Step 20

Install the syrup valves and the restrictor cap.

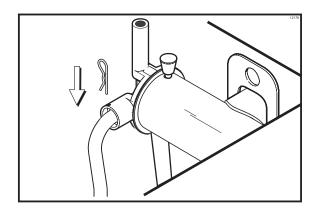
Priming

Note: Evaluate the condition of LED's (lights) and screen messages before performing priming procedures. If all 4 LED's are flashing, the unit is locked.

Step 1

With a mix pail beneath the door spout, open the draw valve. Pour 2-1/2 gallons (9.5 liters) of FRESH mix into the mix hopper and allow it to flow into the freezing cylinder. This will force out any remaining sanitizing solution. When only mix is flowing from the door spout, close the draw valve.

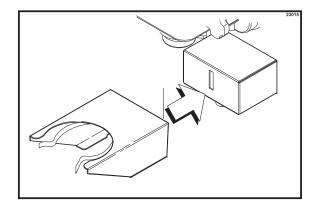
When mix stops bubbling down into the freezing cylinder, remove the cotter pin from the outlet fitting of the mix pump. Remove the mix feed tube. Insert the outlet end of the mix feed tube into the mix inlet hole in the mix hopper. Place the inlet end of the mix feed tube into the outlet fitting of the mix pump. Secure with the cotter pin. (See Figure 44.)





Step 3

Install the shake cup holder. (See Figure 45.)





Step 4

Press the AUTO key. (See Figure 46.)

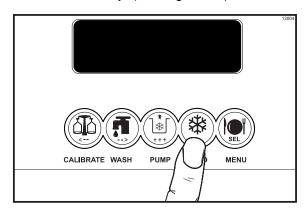


Figure 46

Step 5

Fill the hopper with fresh mix and place the mix hopper cover in position.

Use only **FRESH** mix when priming the freezer.

IMPORTANT: When drawing product, allow the draw handle to close automatically. Manually closing the draw handle will damage the syrup valve and cause serious syrup flavor carryover.

Daily Closing Procedures

This procedure must be done at the close of business.

The function of the Heat Treatment Cycle is to destroy bacteria by raising the temperature of the mix in the freezing cylinder and the hopper to a specified temperature for a specified period of time, and then bringing the temperature back down low enough to retard spoilage.

The Heat Treatment Cycle will start at the time designated in the Auto Heat Time.

IMPORTANT: The level of mix in the hoppers must be high enough to cover the agitator paddles.

Note: If the CLEAN MANUALLY light is flashing, do not add mix. The machine must be disassembled and brush cleaned within 24 hours.

The freezer must be in the AUTO or STANDBY mode before the HEAT cycle may be started. (See Figure 47.)

MODE:	AUTO
MIX:	ОК
HOPPER	40.0F
BRUSH CLEAN ON:	MM/DD

Figure 47

Step 1

Remove the hopper cover, shake cup holder, front drip tray, splash shield, and all three drip pans (two from the rear panel and one from the front panel).

Make sure your hands are clean and sanitized before performing these next steps.

Note: Pressing the CAL key will stop agitator movement for 10 seconds. The agitator will automatically restart after 10 seconds.

Step 2

Remove the agitator from the mix hopper and the restrictor cap from the freezer door spout.

Step 3

Take the agitator, hopper cover, shake cup holder, drip pans, front drip tray, splash shield and restrictor cap to the sink for further cleaning and sanitizing. Take the syrup hole plugs, spout cap, and spout cap o-ring to the sink for further cleaning and sanitizing.

Step 4

Rinse these parts in cool, clean water.

Step 5

Prepare a small amount of an approved 100 PPM cleaning solution (example Kay-5® or Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

Step 6

Brush clean the parts.

Step 7

Place the restrictor cap, front drip tray, shake cup holder and splash shield on a clean, dry surface to air-dry overnight or until the heating cycle is complete.

Step 8

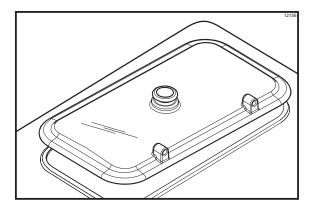
Prepare a small amount of an approved 100 PPM sanitizing solution (example Kay-5® or Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

Step 9

Sanitize the syrup hole plugs, spout cap, spout cap o-ring, rear drip pan, agitator, and hopper cover.

Step 10

Install the agitator back onto the agitator drive shaft housing. Replace the hopper cover. (See Figure 48.)





Important: If you do not install the agitator correctly, the machine will fail the heat cycle and will lock out in the morning.

Step 11

Remove the syrup lines from the freezer door.

Step 12

Return to the freezer with a small amount of cleaning solution. With a pail below the door spout, dip the door spout brush into the cleaning solution and brush clean the syrup ports in the freezer door, door spout and bottom of the driven spinner, spinner blade, and syrup line fittings. (See Figure 49.)

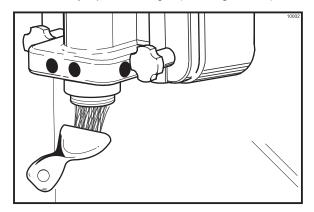
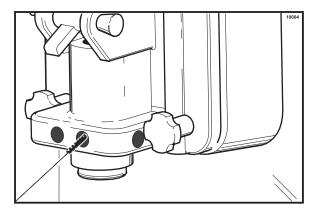


Figure 49

37 Download from Www.Somanuals.com. All Manuals Search And Download. **Note:** To assure sanitary conditions are maintained, brush each item for a total of 60 seconds, repeatedly dipping the brush in cleaning solution.

Step 13

With the syrup port brush, brush each syrup port hole 10 to 15 times. Dip the brush in the cleaning solution before brushing each port. (See Figure 50.)





Step 14

Fill the squeeze bottle with cleaning solution. With a pail beneath the door, insert the tube end of the squeeze bottle into each syrup port and squeeze the bottle firmly. This action will force solution out of the adjacent port and down around the spinner. This procedure should be performed for at least 10 seconds per port. (See Figure 51.)

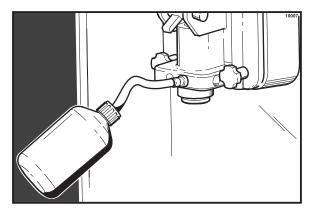


Figure 51

Step 15

Place the spout cap o-ring in the spout cap. Fill the spout cap with sanitizing solution. While holding the draw valve closed, install the spout cap over the end of the door spout. This will cause sanitizing solution to back flow through the syrup ports. (See Figure 52.)

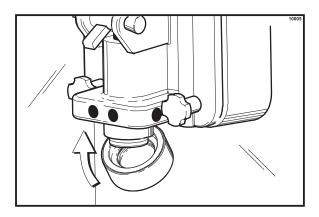


Figure 52

Step 16

Install the syrup hole plugs in the syrup ports in the freezer door. (See Figure 53.)

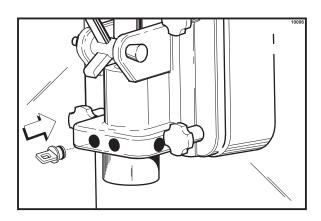


Figure 53

Step 17

Remove, clean and reinstall the long drip pan through the front panel.

Install the short drip pan in the rear panel.

Step 19

Use a clean, sanitized towel and wipe down the freezer door and area around the bottom of the freezer door.

The heat cycle will start when the clock on the machine reaches the AUTO HEAT TIME set in the Operator Menu (see page 21).

There are 3 phases of the heat cycle: Heating, Holding and Cooling. Each phase has a time limit. If any one of the three phases fail to reach the proper temperatures within the time limit, the cycle will automatically abort and return to the STANDBY mode. The LCD will display the message: HEAT TREAT CYCLE FAILURE - FREEZER LOCKED -PRESS SEL KEY. The product may not be safe to serve. The freezer will be locked out (softlock) of the AUTO mode. The operator will be given the option of pressing the AUTO key which will begin a new heat cycle, or pressing the WASH key which will place the freezer into the OFF mode to allow a brush clean of the machine.

Note: Once the heating cycle has started, it cannot be interrupted. The heating cycle will take a maximum of 4 hours to complete with a full hopper.

DO NOT attempt to draw product or disassemble the unit during the HEAT cycle. The product is hot and under extreme pressure.

When the heating cycle is complete, the control will return to the STANDBY mode.

Daily Opening Procedures

Evaluate the condition of LED's (lights) and screen messages (Hard Lock or Soft Lock, etc.) before performing opening procedures. As indicated in the illustration below, 4 flashing LED's, indicate a "locked" condition. (See Figure 54.)

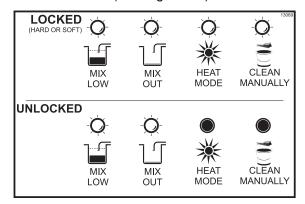


Figure 54

Set-Up - Complete The Following

Make sure your hands are clean and sanitized before performing these next steps.

Step 1

When the heating cycle is complete, the normal display will appear, showing the machine in the STANDBY mode.

Step 2

Prepare a small amount of an approved 100 PPM sanitizing solution (example Kay-5® or Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

Step 3

Remove the syrup hole plugs and spout cap with o-ring from the freezer door. Sanitize the restrictor cap, syrup hole plugs, spout cap and o-ring, shake cup holder, front drip tray and splash shield, in this solution.

Return to the freezer with a small amount of sanitizing solution. With a pail below the door spout, dip the door spout brush into the sanitizing solution and brush clean the syrup ports in the freezer door, door spout, bottom of the driven spinner and spinner blade, and syrup line fittings. (See Figure 55.)

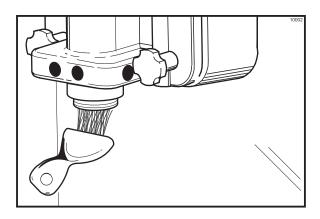


Figure 55

Note: To assure sanitary conditions are maintained, brush clean each item for a total of 60 seconds, repeatedly dipping the brush in sanitizing solution.

Step 5

With the syrup port brush, brush each syrup port hole 10 to 15 times. Dip the brush in sanitizing solution before brushing each port. (See Figure 56.)

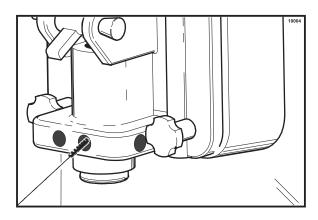


Figure 56

Step 6

Fill the squeeze bottle with sanitizing solution. With a pail beneath the door, insert the tube end of the squeeze bottle into the syrup port, and squeeze the bottle firmly. This action will force solution out of the adjacent port and down around the spinner. This procedure should be performed for at least 10 seconds per port. (See Figure 57.)

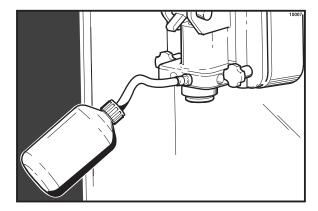


Figure 57

Step 7

Install the restrictor cap on the freezer door spout. (See Figure 58.)

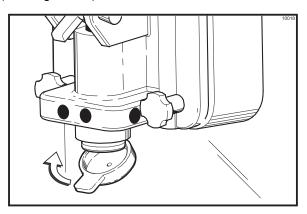


Figure 58

Step 8

Using a clean, sanitized towel, wipe down the freezer door and area around the bottom of the freezer door.

Install the shake cup holder, the front drip tray, and the splash shield.

Step 10

When ready to resume normal operation, press the AUTO key. (See Figure 59.)

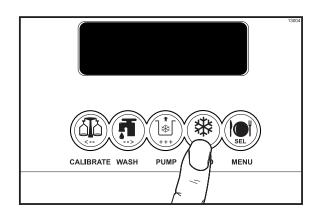


Figure 59

Note: This procedure should be done 3-4 hours before the first shake is served, to build up ice crystals.

Syrup System

Two main objectives in your opening procedures must be to: (1) fill the syrup tanks, and (2) calibrate the syrup flow. This must be checked **daily** to insure the high quality shake you desire.

Discard syrup weekly and flush syrup lines at least once a week. This will prevent syrup clogging the lines and will break the bacteria chain. See page 49 to sanitize the syrup system. The syrup tanks are located in the lower front syrup compartment. The syrup lines are color spiral wrapped. Be sure to match the color wrapped syrup line to the correct syrup flavor. (See Figure 60.)

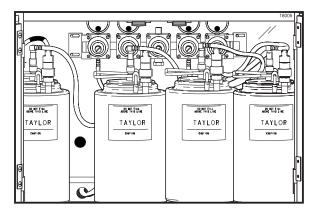


Figure 60

Note: Vanilla and strawberry syrup lines use restrictors at the syrup tank quick disconnect connection to maintain proper calibration. If thin viscosity syrups are used in the special tank, it will be necessary to install a restrictor in the syrup line connection.

Unscrew the quick disconnect from the elbow portion of the syrup line. Make sure the o-ring rests on the end of the quick disconnect fitting. Place the restrictor on top of the o-ring and screw the quick disconnect back onto the syrup line.

Step 1

Filling the syrup tanks: Pull back on the collar of the quick disconnect fitting for the air line. Allow the air pressure to escape from the syrup tank. (See Figure 61.)

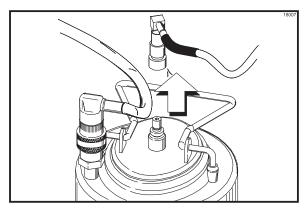


Figure 61

Disconnect the syrup line after you have disconnected the air line. (See Figure 62.)

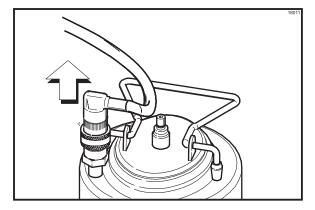
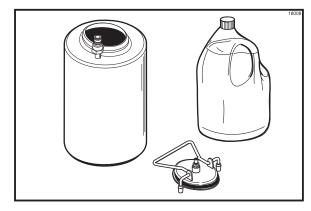


Figure 62

Remove the syrup tank from the compartment. Remove the syrup tank lid by lifting up on the locking lever. Fill the syrup tank with syrup to the indicating mark on the label. DO NOT overfill the tanks. (See Figure 63.)





Replace the tank lid, match and connect the spiral wrapped syrup line to the syrup tank. Connect the air line to the syrup tank.

Repeat this procedure for all syrup tanks.

Step 2

Calibrating the syrup flow must be done on a daily basis. It is vital that the correct amount of syrup be incorporated into the mix to obtain a quality shake. The cause of too thin shakes is often too much syrup. The cause of too thick shakes is often too little syrup.

To determine the rate of syrup flow, you will need a syrup sampler and a calibration cup indicating fluid ounces. The proper rate of syrup flow is 1 fl. oz. (30 ml.) of syrup in 5 seconds. Once this rate is set, the correct amount of syrup will be blended with the shake base regardless of the size of shake served. (See Figure 64.)

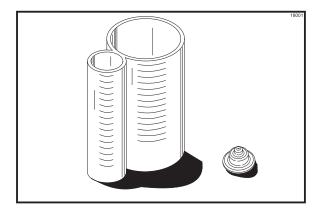


Figure 64

Install the syrup sampler to the fitting on one of the syrup lines. (See Figure 65.)

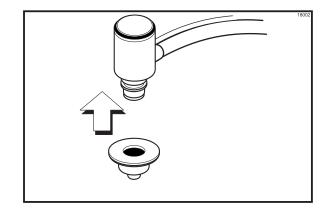


Figure 65

Push the corresponding flavor button for that syrup flavor. (See Figure 66.)

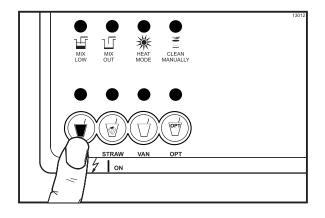


Figure 66

Hold an empty courtesy cup beneath the exit point of the syrup line. Press the CAL key (calibrate). A message will appear on the LCD. (See Figure 67.)

	SYRUP SYSTEM P	RESS
AUTO		START CAL
WASH		CONTINUOUS
CAL		STOP

Figure 67

Press the WASH key. This will bleed any air pockets from the syrup line.

When a STEADY stream of syrup is flowing into the cup, press the CAL key to stop the syrup flow. Discard the syrup in the cup. (See Figure 68.)

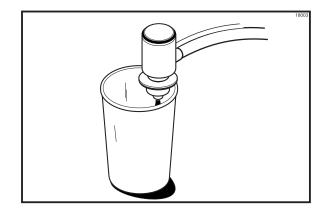


Figure 68

Hold the small portion of the calibrating cup under the syrup line with the syrup sampler. Press the CAL key. Press the AUTO key to check the rate of syrup flow. After 5 seconds the flow of syrup will automatically stop. If the amount of syrup received is 1 fl. oz. (30 ml.), the syrup is properly calibrated. (See Figure 69.)

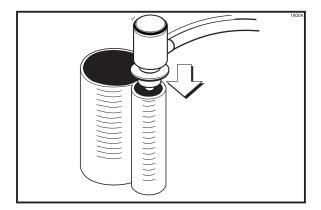


Figure 69

Step 3

Adjusting the syrup pressure: If the amount of syrup is less than 1 fl. oz. (30 ml.) the syrup pressure must be increased. If the amount of syrup is more than 1 fl. oz. (30 ml.) the pressure must be decreased.

Inside the syrup compartment is a regulator manifold assembly with individual pressure regulators to control the amount of pressure to each tank and syrup line. (See Figure 70.)

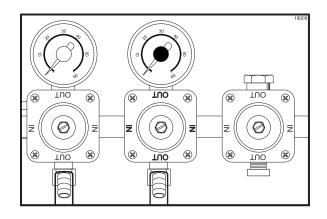


Figure 70

43 Download from Www.Somanuals.com. All Manuals Search And Download. If less than 1 fl. oz. (30 ml.) is received, the pressure must be increased. Loosen the lock nut. Using a flat blade screwdriver, turn the adjusting screw CLOCKWISE.

Recheck the syrup calibration. Tighten the lock nut after the correct calibration is achieved.

If more than 1 fl. oz. (30 ml.) is received, the pressure must be decreased. Loosen the lock nut and turn the adjusting screw

COUNTERCLOCKWISE to zero. Remove the air line to the syrup tank to allow the pressure in the tank to escape. Reconnect the air line. Adjust the regulator to the new pressure setting and recheck the syrup calibration. Tighten the lock nut.

Repeat the calibration procedures for each additional syrup line.

Step 4

Remove the syrup sampler. Lightly lubricate the o-ring on each syrup line fitting. (See Figure 71.)

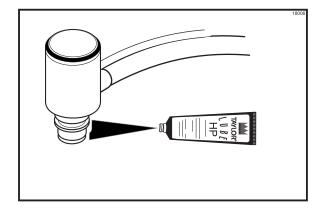


Figure 71

Attach the syrup lines to the freezer door. Insert the syrup line fitting into the syrup port in the freezer door. The flat side of the syrup line fitting must be aligned with the pin in the syrup port. Rotate the syrup line fitting upward to lock in place. (See Figure 72.)

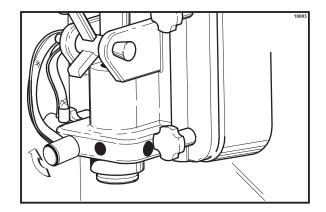


Figure 72

Note: Whenever a particular syrup line is not used, the syrup hole plug found in the spare parts kit must be installed. Place the syrup hole plug o-ring into the groove of the syrup hole plug and lubricate. Align the flat portion of the syrup hole plug with the locking pin in the open syrup port of the freezer door. Insert the syrup hole plug and turn slightly to lock in place.

Step 5

Clean the calibration cup and syrup sampler.

This Procedure Must be Performed Weekly!

Closing Procedures

THIS PROCEDURE MUST BE COMPLETED EVERY 14 DAYS.

FOLLOW YOUR LOCAL HEALTH CODES.

To disassemble the PH61, the following items will be needed:

- Two cleaning and sanitizing pails
- Necessary brushes (provided with freezer)
- Cleaning solution
- Sanitizing solution
- Clean, sanitized towels
- Parts trays

key. (See Figure 73.)

Draining Product From the Freezing Cylinder

Step 1 Cancel automatic operation by pressing the AUTO

13004



Step 2

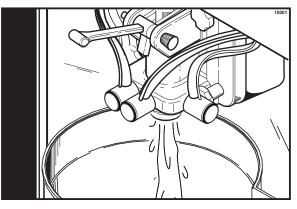
Remove the shake cup holder. Set it aside for cleaning later with all parts.

Step 3

Remove the hopper cover and agitator. Take these parts to the sink to wash, rinse and sanitize.

Step 4

With a pail under the door spout, press the WASH and PUMP keys. Open the draw valve and start to drain the product from the freezing cylinder and mix hopper. (See Figure 74.)





Step 5

When the flow of product stops, press the WASH and PUMP keys, cancelling the WASH and PUMP modes, and close the draw valve. **Discard this product.** (See Figure 75.)

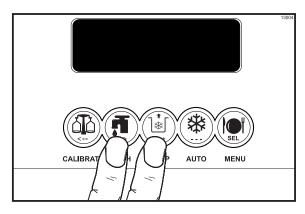


Figure 75

Step 6

Remove the cotter pin, mix feed tube, pump clip and the assembled air/mix pump. Place the parts into the parts tray.

Step 7

Remove the syrup lines from the freezer door by rotating the syrup line fittings and pulling out.

Rinsing

Step 1

Pour two gallons (7.6 liters) of cool, clean water into the mix hopper. With the white hopper brush, scrub the mix hopper, mix level sensing probes and the outside of the agitator drive shaft housing. Using the double ended brush, brush clean the mix inlet hole. (See Figure 76.)

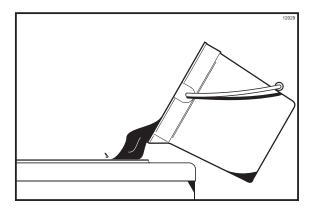


Figure 76

Note: Do not brush clean the mix inlet hole while the machine is in the WASH mode.

Step 2

With a mix pail beneath the door spout, press the WASH key. (See Figure 77.)

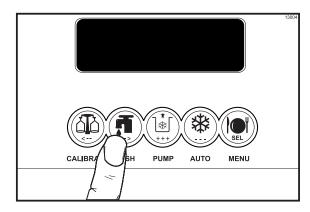


Figure 77

Step 3

Open the draw valve on the freezer door. Drain all the rinse water from the door spout, close the draw valve, and press the WASH key, cancelling the wash cycle.

Step 4

Repeat this procedure using clean, warm water, until the water being discharged is clear.

Cleaning and Sanitizing

Step 1

Prepare a pail of approved 100 PPM cleaning 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 solution into the hopper and allow it to flow into the freezing cylinder.

Step 3

Using the white hopper brush, clean the mix hopper, mix level sensing probes and the outside of the agitator drive shaft housing. Using the double ended brush, clean the mix inlet hole.

Note: Do not brush clean the mix inlet hole while the machine is in the WASH mode.

Step 4

Press the WASH key. This will cause the cleaning solution in the freezing cylinder to come in contact with all areas of the freezing cylinder.

Step 5

Place an empty pail beneath the door spout.

Step 6

Open the draw valve on the freezer door and draw off all the solution.

Step 7

Once the cleaning solution stops flowing from the door spout, close the draw valve and press the WASH key, cancelling the wash mode.

Step 8

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.

Step 9

Repeat steps 2 through 7 with the sanitizing solution.

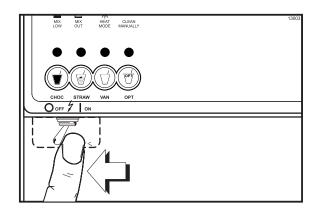
080910

Disassembly

Note: Failure to remove the parts, brush clean, and re-lubricate the parts, will result in damage to the machine. These parts must be removed every 14 days or the machine will lock out and will not operate.



Be sure the power switch is in the OFF position. Failure to follow this instruction may result in severe personal injury from hazardous moving parts. (See Figure 78.)





In order for the control to recognize that the unit has been brush cleaned, the following criteria must be met.

- All freezing cylinder and hopper temperatures must be above 60°F (16°C).
- The mix out and mix low probes must not be satisfied.
- The power switch must remain in the OFF position for at least 5 minutes.

Note: These criteria must be met

simultaneously. These criteria will be met when the unit is properly brush cleaned.

The following screen is displayed if the machine is not in a brush clean state. (See Figure 79.) If any of the requirements for a brush clean have not been met, the time displayed will remain at 5:00 minutes.

	POWER SWITCH OFF	
OUT	TIME: 4:40	OUT
68.5	HOPPER	62.1
69.5	BARREL	67.7

Figure 79

When all the requirements for a brush cleaning are met, and the five minutes expire, the screen will change to the second screen, which is the standard power switch OFF screen. (See Figure 80.)

POWER SWITCH OFF

Figure 80

When the power switch is set in the ON position, the system mode of operation screen is displayed. In this example, the machine is ON, but no mode of operation has been selected. The second line of the display indicates whether there is a sufficient supply of mix in the hopper or if there is a LOW or OUT mix condition. The third line of the display shows the temperature of the mix hopper. After pressing the AUTO key, the last line of the display shows the month and date (MM = month, DD = day) that the machine needs to be disassembled and brush cleaned. (See Figure 81.)

STANDBY	:MODE:	WSH-PMP
OUT	:MIX:	LOW
40.0F BRUSH CLEAN ON:	HOPPER 10/31	40.0F

Figure 81

Note: The Manual Clean LED will begin flashing 24 hours prior to a 14 day lock-out. The four mode LED's will return to their normal function when the unit is unlocked.

With the parts tray available, remove the following parts and place in the parts tray:

Step 1

Remove the syrup lines from the syrup ports, and remove the restrictor cap from the bottom of the door spout.

Step 2

Remove the spinner blade from the bottom of the door spout by lifting up the locking collar on the spinner coupling and pulling down the blade.

Step 3

Remove the handscrews, freezer door, beater assembly with drive shaft seal and scraper blades from the freezing cylinder.

Step 4

Remove the drive shaft seal from the drive shaft of the beater assembly.

Step 5

Remove the freezer door o-ring, front bearing, pivot pin, draw handle and draw valve spinner assembly. Remove o-ring from pivot pin.

Step 6

Disassemble the draw valve spinner assembly. Remove the driven spinner by grasping the draw valve and pulling the driven spinner out. Remove the spinner shaft seal.

Step 7

Remove the two o-rings from the draw valve.

Note: To remove o-rings, use a clean, sanitized 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 and it will roll out of the groove and can easily be 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 o-rings without falling into the open grooves.

Step 8

From the pump cylinder, remove the retaining pin, valve cap, piston, and the feed tube. Remove all o-rings and the check ring.

Step 9

Remove the pump drive shaft from the drive hub in the rear wall of the mix hopper.

Step 10

Remove the two small o-rings and one large o-ring from the drive shaft.

Note: If the drip pans are filled with an excessive amount of mix, it is an indication that the drive shaft seal(s), or o-ring(s) should be replaced or properly lubricated.

Brush Cleaning

Step 1

Prepare a sink with an approved 100 PPM cleaning solution (examples: Kay-5® or Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

Make sure all brushes provided with the freezer are available for brush cleaning.

Step 2

Thoroughly brush clean all disassembled parts and parts trays in the cleaning solution, making sure all lubricant and mix film is removed. Be sure to brush all surfaces and holes, especially holes in the pump valve body and the small syrup holes in the freezer door.

Step 3

Rinse all parts with clean, warm water, one tray at a time, including the tray.

Step 4

Return to the freezer with a small amount of cleaning solution. Using the black brush, clean the rear shell bearing at the back of the freezing cylinder. (See Figure 82.)

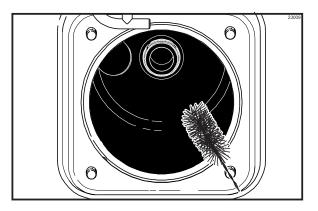
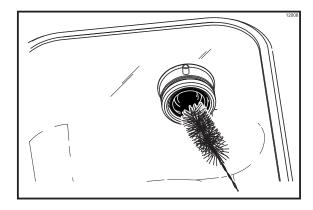


Figure 82

Using the black brush, clean the drive hub opening in the rear wall of the mix hopper. (See Figure 83.)





Step 6

Using the double end brush, brush clean the syrup line fittings.

Step 7

Prepare a sink with an approved 100 PPM sanitizing solution (examples: Kay-5® or Stera-Sheen®). USE WARM WATER AND FOLLOW THE MANUFACTURER'S SPECIFICATIONS.

Step 8

Repeat step 3 with the sanitizing solution.

Step 9

Sanitize all parts in the sanitizing solution for a minimum of 1 minute.

Step 10

Place disassembled parts on clean and sanitized parts trays.

Step 11

Wipe all exterior surfaces of the freezer with a clean, sanitized towel.

Sanitizing the Syrup Systems

Two main objectives in your closing procedures must be to:

- 1. Discard all syrup at least once a week.
- 2. Flush the syrup lines at least twice a week.

This must be done on a regular basis

- a. to keep a build-up of old syrup from clogging the lines, and
- b. to break the bacteria chain which develops in the tanks and lines.

Remember: Calibrating the syrup flow must be done once every morning, especially after flushing the syrup lines.

Step 1

Sanitizing the syrup tanks. Pull back on the collar of the quick disconnect fitting of the air line. Allow the air pressure to dissipate from the syrup tank. Disconnect the syrup line.

Remove the syrup tank from its compartment. Remove the syrup tank lid by lifting up on the locking lever, and discard the remaining syrup.

Rinse the syrup tank with clean, warm water.

Prepare 1/2 gallon (1.9 liters) of the recommended sanitizing solution with **warm** water in the syrup tank. Brush clean the inside and outside of the tank. Remove the syrup line fitting. Remove the dip tube and o-ring from the syrup tank.

Thoroughly brush clean the dip tube, syrup line fitting, and o-ring using the sanitizing solution. Reassemble the dip tube, o-ring, and syrup line fitting.

Pour off all the sanitizing solution and place the tank in an upside-down position on a clean, dry surface to air dry.

Repeat this procedure for all the syrup tanks.

Step 2

Sanitizing the syrup lines. Prepare one gallon (3.8 liters) of the recommended sanitizing solution with **warm** water in the spare syrup tank. Replace and lock the tank lid in position. Place this tank in the syrup compartment.

Connect one of the air lines and the corresponding syrup line to the syrup tank filled with sanitizing solution.

49 Download from Www.Somanuals.com. All Manuals Search And Download. Place the power switch in the "ON" position. This will activate the air compressor to supply pressure to the syrup system.

Install the syrup sampler to the fitting of the syrup line.

Press the corresponding flavor button for the syrup line being sanitized.

Place an empty pail beneath the exit point of the syrup line. Press the CAL key. A message will appear on the LCD.

Press the WASH key. Flush the syrup line until the solution runs clear. Press the CAL key to stop the flow of sanitizing solution.

Note: This procedure will thoroughly clean the syrup lines and prevent bacteria build-up.

Turn the syrup tank with the sanitizing solution upside-down. Press the CAL key. Press the WASH key to clear the syrup line of any remaining sanitizer. When the sanitizer has been flushed from the syrup lines, press the CAL key to complete this step.

Repeat this procedure for all syrup lines.

Place the power switch to the OFF position.

Section 7 Important: Operator Checklist

During Cleaning and Sanitizing



ALWAYS FOLLOW LOCAL HEALTH CODES.

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.

CLEANING AND SANITIZING MUST BE PERFORMED EVERY 14 DAYS.

Troubleshooting Bacterial Count:

- Thoroughly clean and sanitize 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 and the drive hub opening in the rear wall of the mix hopper. Be sure to have a generous amount of cleaning solution on the brush.
- 5. Properly prepare the cleaning and sanitizing solutions. Read and follow 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 or sanitizing.
- □ 6. Empty all syrup from the tanks and discard at least once a week.
- ☐ 7. Thoroughly clean and sanitize the syrup lines at least once a week.

- □ 8. Temperature of mix in mix hopper and walk-in cooler should be below 40°F. (4.4°C.).
- Discard remaining mix from freezer during "Closing Procedures".

Regular Maintenance Checks:

- 1. Rotate scraper blades to allow both sides of the knife edge to wear evenly. This will contribute to self-sharpening and help maintain fast, efficient freezing.
- 2. Replace scraper blades that are bent, damaged, or worn down.
- 3. Before installing beater, be certain that scraper blades are properly attached over the beater pins.
- Dispose of o-rings and seals if they are worn, torn, or fit too loosely, and replace with new ones.
- 5. Check rear shell bearing for signs of wear (excessive mix leakage in rear drip pan) and be certain it is properly cleaned.
- □ 6. Using a screwdriver and cloth towel, keep the rear shell bearing and the female drive socket free of lubricant and mix deposits.
- 7. Follow all lubricating procedures as outlined in "Assembly".
- 8. On air cooled units, check the condenser for accumulation of dirt and lint. Dirty condensers will reduce the efficiency and capacity of the machine. Condensers and filters should be cleaned monthly. Remove the rear panel to gain access to the condenser. Use a soft brush to clean between the fins of the condenser. Never use screwdrivers or other metal probes to clean between the fins.
- 9. 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 mechanic.

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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 to be left unheated and 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. Use air pressure to blow out any water remaining in the condensers. **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 beater assembly and freezer door, and place in a protected, dry place. Rubber trim parts and gaskets can be protected by wrapping with moisture-proof paper. All parts should be thoroughly cleaned of dried mix or lubrication accumulations which attract mice and other vermin.

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Troubleshooting Guide

Problem	Probable Cause	Corrective Action
All four LED's are flashing.	The freezer is locked.	See soft lock and hard lock information.
Soft lock message appears on LCD.	More than 24 hours since the last HEAT cycle.	The freezer must go through a HEAT cycle every 24 hours. The freezer must now be disassembled and brush cleaned or placed in a heat cycle.
	The power switch is in the OFF position.	The power switch must be in the ON position. The freezer must now be disassembled and brush cleaned or placed in a heat cycle.
	The freezer is not in the AUTO mode.	The freezer must be in the AUTO mode. Freezer must now be disassembled and brush cleaned or placed in a heat cycle.
	Mix out condition.	The level of mix in the mix hopper must be above the mix low probe. The freezer must now be disassembled and brush cleaned or placed in a heat cycle.
	The agitator is not installed.	The agitator must be cleaned and installed before starting the HEAT cycle. The freezer must now be disassembled and brush cleaned.
	The agitator is not rotating.	The agitator must be cleaned before starting the HEAT cycle. Disassemble the freezer and brush clean.
	An equipment fault has occurred.	See Screen "H" in the Operator's Menu to determine the cause.
Hard lock message appears on the LCD.	A barrel or hopper thermistor is faulty.	Call a service technician.
	More than 14 days since the last brush cleaning.	The freezer must be disassembled and brush cleaned every 14 days.
No product is being dispensed.	Low on mix. The MIX OUT light is ON.	Add mix to the mix hopper.
	The power switch is in the OFF position.	Place the power switch to ON and press the AUTO key.
	Freeze-up in mix inlet hole.	Call service technician.
	Beater motor is out on reset.	Clear the tone. Allow the beater motor to cool. Place the power switch to OFF. Press the reset button firmly, place the power switch to ON and press the WASH key. Open the side access panel and observe that the drive shaft is turning CLOCKWISE as viewed from the front of the machine. Press the AUTO key to return to the AUTO mode. If the beater motor should go OFF on reset again, call service technician.

Problem	Probable Cause	Corrective Action
No product is being dispensed. (Cont'd.)	Air/mix pump is incorrectly assembled or improperly lubricated.	Follow assembly procedures carefully.
	The mix pump ball crank is broken.	Call service technician.
	The pump motor is not activated.	Push the reset button. The draw valve must be fully opened to activate the pump motor.
The product is too thick.	Not enough syrup - 1 fl. oz. (30 ml.) in 5 seconds.	Calibrate the syrups. Check that the syrup tanks have an adequate syrup supply.
	Insufficient mix in the freezing cylinder.	Check the air/mix pump assembly.
	Improper priming procedures.	Drain the freezing cylinder and re-prime the machine.
	Air/mix pump incorrectly assembled.	Follow assembly procedures carefully.
	The viscosity control is set too cold.	Call service technician.
	Freeze-up in mix inlet hole.	Call service technician.
Product is too soft.	Too much syrup - 1 fl. oz. (30 ml.) in 5 seconds.	Calibrate syrups.
	Outdrawing capacity of freezing cylinder.	Continuous draw rate is approximately one 16 oz. (473 ml.) shake by volume every 15-20 seconds.
	Inadequate air space.	Minimum of 6" (152 mm) air space around all sides.
	Dirty condenser or air filters on air cooled units.	Clean regularly.
	Inadequate water supply on water cooled units.	Check the water supply. Check the water lines for leaks or kinks.
	Bad scraper blades.	Replace the scraper blades.
	The viscosity control is set too warm.	Call service technician.
	Air passage is blocked in the pump.	Brush clean the pump components and reassemble.

Problem	Probable Cause	Corrective Action
The mix in the hopper is too warm.	Hopper cover is not in position.	Clean the hopper cover and place in position.
	The agitator is not installed.	Clean the agitator and install.
	The hopper temperature is out of adjustment.	Call service technician.
The mix in hopper is too cold.	The hopper temperature is out of adjustment.	Call service technician.
Product is collecting on top of draw valve.	Inadequate lubrication of spinner shaft or seal.	Lubricate properly.
	Spinner shaft seal is missing or worn.	Install or replace the spinner shaft seal.
Product is collecting on top of the freezer door.	The top o-ring on draw valve is improperly lubricated or worn.	Lubricate properly or replace the o-ring.
Excessive mix leakage from the bottom of door spout.	Bottom o-ring on draw valve is improperly lubricated or worn.	Lubricate properly or replace the o-ring.
Excessive mix leakage into the long drip pan.	The seal on drive shaft is improperly lubricated or worn.	Lubricate properly or replace the seal.
	The seal is installed inside-out on the drive shaft.	Install correctly.
	Worn or missing o-rings on pump drive shaft.	Install or replace the o-rings.
	Inadequate lubrication of the drive shaft.	Lubricate properly.
	The drive shaft and beater assembly work forward.	Call service technician.
	Worn rear shell bearing.	Call service technician.
	Gear box out of alignment.	Call service technician.

Problem	Probable Cause	Corrective Action
The drive shaft is stuck in the drive coupling.	Mix and lubricant collected in drive coupling.	Brush clean the rear shell bearing area regularly.
	Rounded corners of drive shaft, drive coupling or both.	Call service technician.
	Gear box is out of alignment.	Call service technician.
Freezing cylinder walls scored.	Missing or worn front bearing.	Install or replace the front bearing.
	Broken beater pins.	Repair or replace the beater assembly. When installing scraper blades, be sure they are properly attached over the pins.
	Gear box is out of alignment.	Call service technician.
Spinner shaft will not rotate to blend mix and syrup.	Flexible coupling is broken.	Call service technician.
	Pin is missing in quick disconnect of spinner coupling.	Call service technician.
	Spinner motor is out on thermal overload.	Allow the spinner motor to cool. Also check lubrication on spinner shaft. Properly align the motor and lubricate properly.
Large adjustments are necessary to receive 1 fl. oz. (30 ml.) in 5 seconds.	Syrup lines are not matched with correct syrup flavor.	Match the color wrapped syrup lines to the correct syrup flavors.
	The plunger is sticking in the syrup valve.	Clean the valve.
	Plugged syrup line fitting at freezer door connection.	Clean the syrup line fitting.
	Verify that the proper syrup selection was made.	Make the proper syrup selection.
Pump will not operate in the PUMP mode.	Pump motor is not activated.	Push the reset button.
	The membrane switch is defective.	Call service technician.

Problem	Probable Cause	Corrective Action
Machine will not run when in the AUTO mode.	Machine is unplugged.	Plug into wall receptacle.
	Beater motor is out on reset.	Clear the tone. Allow the beater motor to cool. Place the power switch to OFF. Press the reset button firmly. Place the power switch to ON, and press the WASH key. Open the side access panel and observe that the drive shaft is turning CLOCKWISE as viewed from the front of the machine. Press the AUTO key to return to the AUTO mode. If the beater motor should go OFF on reset again, call service technician.
	Circuit breaker OFF or blown fuse.	Turn the breaker ON or replace the fuse, and clear the fault.
	Low on mix. The MIX OUT light is ON.	Add mix to the mix hopper and press the AUTO key.
	Water is turned OFF on water cooled units.	Turn water ON, and clear the fault.
Air compressor runs too often for normal usage.	Air leak in the system.	Use a soap solution to locate the leak and repair.
Liquid Crystal Display is blank.	Machine is unplugged.	Plug into wall receptacle.
	Circuit breaker is OFF or blown fuse.	Turn the circuit breaker ON or replace the fuse, and clear the fault.
	Component failure.	Call service technician.
	LCD intensity needs adjusting.	Call service technician.
Product is not feeding into the freezing cylinder.	The mix inlet hole is frozen up.	The hopper temperature needs adjustment. Call service technician.
The draw handle does not close.	Mix is on the sensing eye.	Clean the sensing eye.
Product "popping" when drawn.	Pump assembled incorrectly.	Assemble and lubricate according to instructions in this manual.
Freezer shuts off, but fault tone continues.	Fault has occurred in the freezer.	Verify condition in the Operator's Menu "fault" screen. Clear fault accordingly.
	Inadequate air clearance around the freezer.	Minimum of 6" (152 mm) air space around all sides to prevent recirculation of warm air.

Problem	Probable Cause	Corrective Action
Syrup flows constantly, or not at all. Difficult to calibrate syrups.	Syrup lines are clogged.	Disassemble and clean the syrup valves. Flush syrup lines with warm water and sanitize weekly.
	The syrup valve plunger is stuck.	Disassemble and clean the syrup valve.
Shakes have air bubbles in them.	Syrup valves are clogged.	Disassemble and clean the syrup valves.
Mix low and mix out probes are not functioning.	Milkstone build-up in the hopper.	Clean hoppers thoroughly.

Parts Replacement Schedule

PART DESCRIPTION	EVERY 3 MONTHS	EVERY 6 MONTHS	ANNUALLY
Scraper Blade-Shake		Х	
Drive Shaft Seal	Х		
Freezer Door O-Ring-Shake	Х		
Front Bearing	Х		
Draw Valve O-Ring	Х		
Spinner Shaft Seal-Shake	Х		
Pivot Pin O-Ring	Х		
Restrictor Cap-Shake	Х		
Mix Feed Tube O-Ring	Х		
Pump O-Ring	Х		
Mix Inlet Tube O-Ring	Х		
Mix Feed Tube Check Ring	Х		
Air Inlet Fitting Seal	Х		
Pump Drive Shaft O-Ring	Х		
Pump Valve Gasket	Х		
Brush APackage-HT-SS		Inspect & Replace if Necessary	Minimum

DESCRIPTION	PART NUMBER	ατγ.	WARR. CLASS	REMARKS	PARTS UPDATE
ACCUMULATOR AAIR *5472*PRTL	X46916	-	103		
+ FITTING AAIR ACCUM INLET	X48548	-	103	J5010000/UP	06
+ NIPPLE-1/8 MPT CLOSE BRASS	020519	-	000		
+ TUBE-VINYL 1/8 ID X 1/16 WALL	020938-6	Ł	000	BULK UNDER P/N R30301	
+ VALVE-SOLENOID-SERVICE	044125-27S	Ł	103		
ACCUMULATOR AGLYCOL (OLD)	X41912	Ł	103	J4019999/PRIOR (SEE TANK-GLYCOL) NLA	62
ACCUMULATOR-COPPER 2"DIA 10"LG	047062	Ł	103	REFRIGERANT	
ADAPTOR ACASTER	X18915	4	103		
AGITATOR A. *HT*20 QT HOPPER	X44797	Ł	103		
+ CAP-MAGNET *HT*	044796	~	103		
BEARING-DOOR-FRONT 1.390 OD	055605	Ł	000		
BEARING-REAR SHELL *NICK. PLATE	031324	-	000		
+ GUIDE-DRIP SEAL	028992	Ł	000		
+ NUT-BRASS BEARING	028991	Ł	000		
+ O-RING-1/20D X .070W	024278	2	000		
+ WASHER-BEARING LOCK	012864	1	000		
BEATER A7QT-FLUTED BLADE	X50958	1	103	REPLACES X42315 USE W/050985 BEATER SHAFT	113
+ BLADE-SCRAPER-FCB-PRESSURE-16"	041103	2	000		
BELT-RD 3/16 GREEN	062191-4	٢	000		
BELT-V-4L400	007590	Ł	000		
BLADE ASPINNER-ALUMINUM-HT	X41895	1	103		
BLOCK-TERMINAL 3P	039423	2	103		
BLOCK-TERMINAL 3P. 25 SPADE	057201	1	103		
BLOCK-TERMINAL-PLUG 10P .2 SIP	040322-005	1	103	J14 IB	
BLOCK-TERMINAL-PLUG 6P .2 SIP	040322-002	2	103	J5 IB	
BLOCK-TERMINAL-PLUG 7P .2 SIP	040322-003	2	103	J7 & J6 IB	
BLOCK-TERMINAL-PLUG 8P .2 SIP	040322-004	2	103	J10 IB	
BOTTLE ASQUEEZE *5472*	X45080	1	000		
O-RING-1/20D X .070W	024278	1	000		
BRUSH APACKAGE-HT	X44127	1	000		
CABINET ASYRUP *5472*	X45769	1	103		
CABLE-RIBBON-10C-34"L-DIL/DIL	040040-023	٢	103	J3 IB TO LED	
CABLE-RIBBON-10C-5"L-DIL/DIL	040040-024	-	103	LED TO LED	

Section 10

Parts List

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Parts List

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DESCRIPTION	PART NUMBER	ατΥ.	WARR. CLASS	REMARKS	PARTS UPDATE
CABLE-RIBBON-14C-22"L-SIP/SIP	040040-019	-	103	JOUC TO LCD	
CABLE-RIBBON-20C-33"L-DIL/DILR	040040-027	1	103	J12 IB TO J2 UC	
CABLE-RIBBON-20C-35"L-DIL/DIL	040040-026	1	103	J9 IB TO J7 UC	
CABLE-RIBBON-50C-25"L.DIL/DIL	040040-025	-	103	J2 IB TO J10 UC	
CABLE-4 COND-#22 SHIELDED	039309-28	1	103	POWER CABLE IB-UC (BULK P/N R6003003)	
CAP AVALVE-DRAW-INSULATED	X54704	1	103		
CAP-RESTRICTOR	033107	٢	000		
CAPACITOR-RUN8UF/400V	039482	-	103	AGITATOR MOTOR	
CAPACITOR-RUN 10UF/370V	033047	-	103	SPINNER MOTOR	
CAPACITOR-RUN 4UF/440V	051785	-	103	FAN MOTOR & AGITATOR MOTOR	
CARD-DAILY CLEAN-HT-SHK-PUMP	046702	-	000		
CASTER-SWV 5/8 STEM 4IN WHEEL	018794	4	103		
CLAMP-HOSE 9/16 CRIMP TYPE	047344	14	000	GLYCOL HOSE	
COLLAR-HOLDING	019481	2	103	CUP DISPENSER	
+ SCREW	001086	2	000		
COMPRESSOR M63B203DBDB	062274-33	٢	512	208-230V 60HZ 3PH - K6050000 & UP - BRISTOL	
+GROMMET-COMPRESSOR MOUNTING	037428	4	000		
+SLEEVE-MOUNTING-COMP.	039924	4	000		
COMPRESSOR AH7513Z-AH245RT	047520-	-	512	J4048006-K6040000 HP62 (-F = FRENCH BUILT J909000/ UP)	80
+ GROMMET-COMPRESSOR MOUNT-AH	039923	4	000	J4048006/UP HP62	80
+ SLEEVE-MOUNTING-COMPAH	039924	4	000	J4048006/UP HP62	80
COMPRESSOR M51B143DBLA	036880-	-	512	J4048005/PRIOR	80
+ GROMMET-COMPRESSOR MOUNTING	037428	4	000	J4048005/PRIOR	80
+ SLEEVE-MOUNTING-COMP.	039924	4	000	J4048005/PRIOR	80
COMPRESSOR-AIR-230V SERV	032129SER2	1	103		
+ CROSS-1/4 FPT	077339	1	000		
+ FITTING-1/4MPT X .170BARB STR	075880	1	103		
+ GAUGE-PRESSURE 0-60 PSI 1/4MPT	046933	1	103		
+ NIPPLE-1/4IPT X 7/8LONG BRASS	026496	1	103		
+ SWITCH-PRESSURE-240V, 3HP	063944-C	1	103		
+ VALVE-CHECK 1/4MP	020959	-	103		
CONDENSER-AC-12LX18HX4.3-5ROW	019558	1	103		
CONTROL-ROHS-LED-4 POSITION	063930	2	212		

DESCRIPTION	PART	ατγ.	WARR.	REMARKS	PARTS
	NUMBER		CLASS		UPUAIE
COUPLING ADRIVE-SPINNER	X20329	-	103		
PIN-ROLL094D X .562L	015971	-	000		
COUPLING ATORQUE-SHAKE*GOLD*	X54722-GLD		103	REPLACES X52620	
COUPLING-TORQUE-DRIVE TTS	054723	٢	103		
COUPLING-TORQUE-LOAD-SQ *TTS	054724	Ļ	103		
PIN-COUPLING-TORQUE	039453	4	103		
PIN-STOP-TORQUE COUPLING .79	054725	4	103		
SCREW-5/16-18X3/8 SOCKET SET	025376	2	000		
SCREW-SHOULDER 8-32X3/16 SLT	039455	4	000		
SPRING-3/80DX3/16IDX1L-GOLD	052476	4	103		
COUPLING-FLEXIBLE W/SCREWS	020108	Ļ	103		
COVER AHOPPER INSCOMPLETE	X65369	Ļ	103		
LABEL-CAUTION-AGITATOR	045191	٢	000		
+ PIN-RETAINING-HOPPER COVER	043934	4	103		
CUP-DIVIDED SYRUP	017203	-	000		
CYLINDER-AIR 1-1/6 BORE X 1 IN	032999	1	103	DRAW HANDLE SHUT OFF	
+ CAP-AIR CYLINDER *PORTION CTRL	045975	1	103		
+ SCREW-8-32 X 1/4 ALLEN SET	043603	٦	000		
DECAL-DEC-TAYLOR-PH61 (NEW)	052280	Ł	000	J8120000/UP - "ON POSITION ON RIGHT SIDE"	137
DECAL-MAG-CLOSING CHECKLIST	044309	٢	000		
DECAL-INST-CLN-DAY-HT-SHK	045271	Ļ	000		
DECAL-INST-CLN-HT-SHK	045274	-	000		
DECAL-SET 4 SYRUP FLAVOR	021523	٦	000		
DECAL-SET-SYRUP VALVES	045521	٢	000		
DECAL-SYRUP COMPARTMENT	021571	٦	000		
DECAL-SYRUP FLAVOR INSTRUCTION	020997	1	000		
DECAL-TROUBLESHOOTING	038374	Ļ	000		
DIAGRAM-WIRING	044816-33	Ł	000	208-230V 60HZ 3PH - 3 WIRE	
DISPLAY-LIQUID CRYSTAL	X38062-SER	1	103		
+ LENS-DISPLAY	038221	1	103		
+ STANDOFF-LENS	038225	4	000	048901	
+ SCREW-2-56 X 1/2	038219	4	000		
+ NUT-HEX	038220	4	000		

Parts List

LV-HT X5 LV-HT X5 V VALVE *8663* 03 V SALVE *8663* 03 6 OD X .070W 016 863* 036 6 M-ALUMINUM *5472 03 863* 03 863* 03 863* 03 863* 03 863* 03 863* 03 863* 03 863* 03 863* 03 863* 03 863* 03 863* 03 863* 03 863* 03 863* 03 863* 03 863* 03 863* 04 863* 04 863* 04	X55724-SER 034003 X22820 016272 016272 036053 034054 X42210 X42210 020571	~ ~	512 512		
6472 * 5472* ? *5472*	6012 2820 5272 5053 5053 4054 4054 2210 50571				
6472 *5472* *5472*	2820 5272 5053 5054 4054 2210 2210	-	103		
5472 5472 *5472* *5472*	5272 5053 4054 2210 5571	-	103		
6472 *5472* **5472*	5053 4054 2210 0571	-	000		
5472 * *5472* * *5472*	4054 2210 3571	-	000		
5472 *5472* *5472*	2210 0571	~	103		
2 *5472* 2 *5472*	0571	~	103		
{ *5472* { *5472*		2	000		
	X45325	-	103		
	045339	2	000	WHITE PLASTIC	
	045340	2	000	METAL INSERT	
+ NUT-10-32-1/2 005	005598	2	000		
+ PLATE-HINGE *5472*LOWER 045	045338	~	103		
+ PLATE-HINGE *5472*UPPER	045337	٦	103		
+ SCREW-10-32X3/4 033	033944	2	000		
DRYER-FILTER-HP62-3/8 X 1/4S 048	048901	1	000		
DVD-OPS TRAINING VIDEO *PH61 049	049663-DVD	1	000		
FASTENER-CLIP 1/4-20 U-TYPE 045	045865	10	000		
FILTER-CORCOM 6EH1 040	040140-001	٦	103		
FILTER-INLINE-GLYCOL-40 MICRON	041670	٦	103		
+ ARMAFLEX-BOOT USE 047490-4.5 047	047490-4.5	~	000		
FLUID AHEAT TRANSFER X39	X39667	٦	000		
FUSE-15 AMP-IN LINE-NON DELAY	045293	٦	000	045606 HOLDER	
GASKET-SYRUP DOOR 045	045326	1	000		
GEAR A.*REDUCER 4.21:1 SERVICE 021	021286-SER	1	212		
GEAR A.*REDUCER-AGITATOR	047988	1	103		
GUARD-POWER SWITCH	034830	٦	103		
GUIDE ADRIP PAN *5472* X4!	X45386	1	103	FRONT PANEL-REAR SHELL BEARING	
GUIDE ADRIP PAN-MIX PUMP	X48228	1	103	REAR PANEL-MIX PUMP J4070000/UP	84
HEATER AGLYCOL-2500W *H60* X47	X47331S27G	1	103		
THERMOSTAT-HI LIMIT OPEN 200 035	035786	-	103		
15 DEGREE	X54617	-	103	REPLACES X38976	
BRACKET ASENSOR X51	X51465	2	103		

081110

DESCRIPTION	PART	ατγ.	WARR.	REMARKS	PARTS
			CLASS		UPDAIE
HOLDER-SENSOR-PYROELECT 15 DEG	063747	-	103		
NUT-5/16-18 SPECIAL HEX NUT	043072	1	000		
PIN-GUIDE-5/16OD X 1-5/16LG	038980	2	103		
SCREW-10-32X9/16 SOCKET SET	038981	٢	000		
SCREW-8X3/8 SLTD PAN B SMS	035647	2	000		
SCREW-ADJUSTMENT-5/16-18	051574	٢	000		
HOLDER-CUP-SHAKE	046939	Ļ	103		88
+ CLIP-SPRING-CUP HOLDER	046940	2	103		88
HOLDER-FUSE-IN LINE-TYPE HLR	045606	Ļ	103	045293 FUSE	
HOSE-RUBBER 5/16"ID X 9/16"OD	047340-	7 FT	000	BULK UNDER R502011 (GLYCOL)	
HOUSING AAGITATOR *HT*	X51664	٢	103		
MAGNET AAGITATOR-INNER	X41733	Ļ	103		
SCREW-8-32 X 3/16 ALLEN SET	006812	2	000		
KIT ABRUSH-HT	X44127	٦	000		
BRUSH-1/2" DIA	033059	1	000		
BRUSH-DOUBLE ENDED-PUMP&FEED T	013072	1	000		
BRUSH-DRAW VALVE 1"ODX2"X17"L	013073	1	000		
BRUSH-DRAW VALVE 1-1/2"OD X 3"	014753	1	000		
BRUSH-END-DOOR-SPOUT-SS-HT	039719	Ł	000		
BRUSH-MIX PUMP BODY-3"X7"WHITE	023316	٢	000		
BRUSH-PUMP SPOUT *MC13*	054068	Ļ	000		
BRUSH-REAR BRG 11N.DX2IN.LGX14	013071	-	000		
BRUSH-SET LVB	050103	٦	000	Includes 045079 Syrup Port Brush	
BRUSH-SYRUP PORT	045079	٢	000		
KIT ATUNE UP 5472 SIMPL PUMP	X49463-63	٦	000		
KIT ADRAW VALVE *SHAKE*	X56200-1	1	000		
CAP-RESTRICTOR	033107	٦	000		
O-RING-1-1/16 OD X.139W	020571	2	000		
O-RING-5/16 OD X .070W	016272	1	000		
SEAL-SPINNER SHAFT	036053	1	000		
KIT APUMP-SIMPLIFIED SS/SH	X56200-10	1	000		
GASKET-SIMPLIFIED PUMP VALVE	053527	1	000		
O-RING 1/2 ID X .139W	048632	2	000		

Parts List

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NUMBER 016132 016132 016132 008904 020051 020051 020051 055524 X56200-4 X56091 X5500-7 X5500-7 X55200-7 X5100		CLASS		
(03W-RED 016132 1 .139W .008904 1 .139W .008904 0 .139W .008904 0 .139W .020051 0 .139W .020051 0 .139W .020051 0 .139W 0.55504 0 .139W .05607 0 .139W 0.556091 0 .5605 0.20260 0 .5605 0.203390 0 .5605 0.2139W 0 .600 0.23390 0 .7139W 0.24278 0 .34 IDX 1/8 0.33493 0 .2100 0.33493 0 .2100 0.2278 0 .000 0.2278 0 .000 0.22709 0 .016 0.22709 0 .000 0.22709 0 .000 0.22709 0 .0110 0.22709				UPDATE
.139W 008904 0 .139W-#225 020051 0 .139W-#225 020051 0 .139W-#225 056524 0 .1TUBE 056524 0 SHAKE*863 X56091 0 SHAKE*863 X56091 0 SHAKE*863 X56091 0 SMW WGREN 024278 0 OW 0243393 0 X139W 041923 0 SMM WGREN 053890 0 OW 023493 0 X139W 053890 0 OW 02478 0 SI IDX 1/8 033493 0 SI IDX 1/8 033493 0 OFFMAN 053890 0 OFFMAN 053890 0 OW 022709 0 AL-FREEZER 04260 0 OW 022709 0 K BLUE 022709 0 K BLUE 022709 0 N 022709 0 R BLUE 022709 0 R BLUE 022709 0 R BLUE 022709 0 R BLUE 022709 0 <t< td=""><td>2</td><td>000</td><td></td><td></td></t<>	2	000		
.139W+#225 020051 .TUBE 056524 .TUBE 056524 SHAKE*863 X56200-4 ShAKE*863 X565091 S605 X56091 S605 X56091 S605 X56091 S605 X56091 S605 X56091 S605 X56091 S605 02278 S139W 033493 2MM W GREEN 053890 34 IDX 1/8 033493 OW 022560 ALFREEZER 032560 OW 022710 ROWN 022709 OW 022709 MLER 022709 OW 022709 ON 022709 ON 022709 ON 022709 ON 022709 ON 022709 ON 022709 OR	1	000		
-TUBE 056524 0 SHAKE*863 X56200-4 X56091 SHAKE*863 X56091 X56091 605 X56091 X56091 600 024278 X56091 700 0243390 024378 3/4 IDX 1/8 041923 X13900 3/4 IDX 1/8 033493 X 3/4 IDX 1/8 033493 X 7 032560 X 7 022709 X 7 022709 X 7 022709 X 8 022709 X 9 022709 X 9 022709 X	2	000		
SHAKE*863 X56200-4 5605 X56091 5605 X56091 70W 024278 70W 024278 7139W 041923 2MM W GREEN 053890 3/4 IDX 1/8 033493 3/4 IDX 1/8 033493 7 032560 7 032560 7 032560 7 032560 7 032560 7 032560 7 032560 7 032560 7 032560 7 032560 7 022708 8 022701 8 022703 8 022703 8 022703 9 022703 7 022703 7 022703 8 022703 8 022703 9 022703 9 022703 8 022703 9 022703 9 022703 9 022703 9 022703 9 02103 9 032749 9 032749 9 032749	1	000		
5605 X56091 X 0W 024278 0 0W 024278 0 X.139W 041923 X ZMM W GREEN 053890 X ZMM V GREEN 053890 X ZMM V GREEN 032560 X OV 032560 X ALFREZER 032560 X OV 02270 X ALFREEZER 04820 X OV 022709 X ROUN 022709 X REDUE 022709 X	-	000		
OW 024278 0 X.139W 041923 0 ZMM W GREEN 053890 0 3/4 IDX 1/8 033493 0 3/4 IDX 1/8 033493 0 3/4 IDX 1/8 033493 0 3/4 IDX 1/8 032560 0 AL-FREEZER 032560-7 0 OW X56200-7 0 AL-FREEZER 032560 0 AL-FREEZER 032560 0 AL-FREEZER 022708 0 AL-FREEZER 022708 0 AL-FREEZER 022708 0 AL-FREEZER 022708 0 AL-FREEZER 022709 0 ALDE 022709 0 BLUE 022709 0 CONN 022709 0 ALHE 022709 0 ARBUE 022709 0 BR 032164 0 ARE-ASDEG 032749 0 AR	-	000		
X.139W 041923 ZMM W GREEN 053890 ZMM W GREEN 053890 3/4 IDX 1/8 033493 3/4 IDX 1/8 033493 M Post 033493 AL-FREZER 032560 OW X56200-7 OW 024278 AL-FREEZER 048260-WHT ROWN 022710 ROWN 022708 RELUE 022708 RELUE 022709 PO 022709 RELUE 021032 R	4	000		
ZMM W GREEN 053890 3/4 IDX 1/8 033493 3/4 IDX 1/8 032560 3/4 IDX 1/8 032560 10 FFMAN X56200-7 10 FFMAN X56200-7 10 FFMAN X56200-7 10 FFMAN X56200-7 10 CFMAN X56200-7 10 CFMAN X56200-7 10 CFMAN 022778 10 C22708 022701 R BLUE 022707 ROWN 022709 R BLUE 022709 R	-	000		
3/4 IDX 1/8 033493 7 032560 10FFMAN X56200-7 10V X56200-7 10V 024278 10V 024278 10V 024278 10V 022700 11 022701 11 022701 11 022701 11 022701 11 022701 11 022701 11 022701 11 022701 11 022701 11 022701 11 022701 11 022701 12 022701 13 022701 14 022701 14 022701 15 022701 16 022701 17 022701 18 021031 19 051433 10 051433 11 051433 11 051433 12 051433 13 051433 14 04505 14 04505 14 04505	4	000		
T 032560 10FFMAN X56200-7 10W X56200-7 10W 024278 AL-FREEZER 048260-WHT AL-FREEZER 048260-WHT ROWN 022710 REDUE 022708 ROWN 022708 RELUE 022708 RELUE 022709 RELUE 032164 RELUE 032749 RELUE 032749 RELUE 032749 RELUE 046925 RARAS 021082	-	000		
HOFFMAN X56200-7 No 70W 024278 024278 70W 024270 024278 AL-FREEZER 048260-WHT 022710 ROWN 022710 022708 REUUE 022707 022703 FD 022709 022709 HITE 022709 022709 OR 032749 032749 E <part< td=""> 032749 051433 ARB-45 DEG. 021082 021082 ARB-45 DEG. 021082 021082</part<>	-	000		
OW 024278 O AL-FREEZER 048260-WHT 048260-WHT ROWN 022710 0 ROWN 022708 0 K BLUE 022707 0 K BLUE 022709 0 MITE 022709 0 PHITE 022709 0 OR 022709 0 PHITE 022709 0 RE 022709 0 PHITE 022709 0 RE 022709 0 0 PHITE 022709 0 0 R 032749 0 0 P-ENG/SPN 032749 0 0 P-ENG/SPN 032749 0 0 ARB-45 DEG 046925 0 0 ARB-45 DEG 021082 0 0	-	000		
AL-FREEZER 048260-WHT ROWN 022710 ROWN 022708 K BLUE 022707 K BLUE 022709 FD 022709 HITE 022709 OH 022709 OR 032164 OR 032749 OR 032749 OR 051433 ARB-45 DEG. 046925 ARB-45 DEG. 021082	4	000		
ROWN 022710 K BLUE 022708 ED 022708 ED 022709 HITE 022709 OR 022709 ALUE 022709 OR 022709 OR 022709 OR 022709 OR 022709 OR 032749 E PART 032749 E PART 032749 ARB-45 DEG. 046925 ARB-45 DEG. 021082	1	000		
K BLUE 022708 ED 022707 ED 022709 HITE 022709 R 025709 AHTE 022709 R 032749 P-ENG/SPN 032749 E PART 032749 ARB-45 DEG. 046925 ARB-45 DEG. 021082	-	000		
ED 022707 HITE 022709 IHITE 022709 IR 02191 IR 032164 IR 032164 IR 032164 IR 032749 IR 032749 IR 051433 IR 046925 IR 021082	1	000		
HITE 022709 R 045191 D-ENG/SPN 045191 D-ENG/SPN 032164 D-ENG/SPN 032749 E PART 032749 Mathematical Stress 051433 ARB-45 DEG. 046925 SRASS 021082	1	000		
0R 045191 0-ENG/SPN 032164 0.200 032749 0.20103 051433 0.21033 051433 ARB-45 DEG. 046925 SRASS 021082	1	000		
-ENG/SPN 032164 E PART 032749 E PART 051433 ARB-45 DEG. 046925 SRASS 021082	-	000		
E PART 032749 032749 051433 051433 051433 051433 051433 051433 051433 051433 051433 051433 051433 051082 051080000000000	1	000		
051433 X47043-12 ARB-45 DEG. 046925 SRASS 021082	-	000		
X47043-12 ARB-45 DEG. 046925 SRASS 021082	9	000		
046925 021082	4	103	FROM AIR MANIFOLD TO SYRUP TANKS	
021082	4	103		
	8	000		
SOCKET-Q.D. CO2 90DEG 1/4BARB 021524 4	4	103		
TUBE-NYLOBRADE 1/4ID X 7/16OD 020568-12 4	4	000		
LINE ASYRUP-TWIN TUBE X53399-88 4	4	103		145
FERRULE462 ID NP BRASS 053888 053888	4	000		
FITTING-SYRUP VALVE 053397 053397	4	103		
O-RING-1/20D X .070W 024278 4	4	000		
TUBE-TWINNED 84" 045359 4	4	000		
CLAMP-TWIN TUBE 052079 E	8	000		

DESCRIPTION	PART NUMBER	ατγ.	WARR. CLASS	REMARKS	PARTS UPDATE
LIP-DRIP-NOSE CONE	036435	-	000		
LUBRICANT-TAYLOR HI PERFORMANCE	048232	Ļ	000		
MAN-OPER PH61	048119-M	1	000	J4063652/UP	82
MANIFOLD AREGULATOR *5472*	X46924	1	103		
DECAL-FLAVOR COLOR SET '4'	022105	1	000		
FITTING 1/4 X .170 90 DEGREE	075946	1	000		
GAUGE-PRESSURE 0-60 PSI 1/8MPT	027875	4	103		
NIPPLE-1/4IPT X 7/8LONG BRASS	026496	2	000		
PLUG-1/4MP BRASS	027747	2	000		
REGULATOR-PRESSURE-CO2	027744	5	103		
VALVE-PRESSURE RELIEF-45#	047252	٢	103	J3110000/UP	76
MANIFOLD-FIVE VALVE-90 DEG.	046920	-	103	J3070000 - J6061311 (X50644 UPDATE KIT)	73 & 107
MANIFOLD-FIVE VALVE	045787	1	103	J2111806 - J3069999 (X50644 UPDATE KIT)	63 & 73
MANIFOLD-FOUR VALVE	037780	1	103	PRIOR TO J2111806 N/A	63
VALVE-AIR-3 WAY-24VAC	045787-1	4	103	PRIOR TO J6061311	
VALVE-AIR-3 WAY-12VDC	045787-2	1	103	PRIOR TO J6061311	
MOTOR ASPINNER W/PLUG	X35584SER2	1	103		
CONNECTOR-PLUG 3 PIN FEMALE	022522	1	103		
PIN-MALE .084"DIA-MATE-N-LOK	021624	3	103		
+CAP-CYLINDER-AIR-PORTION CTR	045975	-	103		
+CYLINDER-AIR 1-1/6 BORE X 1	032999	-	103		
MOTOR-1.0 HP	013102-33	-	212		
MOTOR-AGITATOR	047987-27	1	103		
MOTOR-FAN 80 WATT 1550 RPM C	051744-27	٦	103		
+CONNECTOR-MATE LOCK 4 CIR-PI	500534	1	103		
+PIN084 OD/14-20 AWG-STRIP	021624	З	103		
+FAN-5 BLADE 12" PUSH 26DEG CCW	029771	١	103		
MOTOR-REDUCER-SERVICE	044723-27S	1	103	60Hz	
+ GEAR-ONLY	049243-27	2	103	60Hz	93
+ MOTOR-ONLY	049242-27	2	103	60Hz	93
+ SEAL-MOTOR REDUCER-INPUT SHAFT	048836	2	000		06
+ SEAL-MOTOR REDUCER-OUTPUT SHAFT	048837	2	000		06
NUT-STUD *482-5472-8663-8634*	034034	4	103	(HANDSCREW)	

NYLON-SPIRAL WRAP-BLUE-2" 041 NYLON-SPIRAL WRAP-BROWN-2" 041 NYLON-SPIRAL WRAP-RED-2" 041 NYLON-SPIRAL WRAP-RED-2" 041 NYLON-SPIRAL WRAP-RED-2" 041 O-RING SILICONE-RED (SYRUP VALVE FITTING) 053 O-RING SILICONE-RED (SYRUP VALVE FITTING) 053			CLAGO		UPDATE
	041582-4	2	000	BULK UNDER P/N R40336	
	041582-1	2	000	BULK UNDER P/N R40338	
	041582-2	2	000	BULK UNDER P/N R40337	
	041582-3	2	000	BULK UNDER P/N R40320	
	053398-RED	-	000	J9096706/UP (REPLACES 042503-RED SHROUD)	145/146
	053398-BLU	-	000	J9096706/UP (REPLACES 042503-BLU SHROUD)	145/146
O-RING SILICONE-WHT (SYRUP VALVE FITTING) 053	053398-WHT	-	000	J9096706/UP (REPLACES 042503-WHT SHROUD)	145/146
O-RING SILICONE-BRN (SYRUP VALVE FITTING) 053	053398-BRN	-	000	J9096706/UP (REPLACES 042503-BRN SHROUD)	145/146
OVERLOAD-TI#2BM-KG-16-68 042	042005-34	-	103	MOTOR REDUCER 50 &60 Hz	
+ NUT-OVERLOAD RESET 045	045026	-	000		
PAIL-MIX 10 QT. 013	013163	~	000		
PAN ADRIP *5459* X28	X28142	-	103		
PAN-DRIP HT 048	048204	1	103	J4070000/UP MIX PUMP	84
PANEL AFRONT *PH61* X55	X55436	1	103		
PANEL ALOWER SIDE X24	X24397-SER	~	103	LEFT	
PANEL-LOWER SIDE R.*5472/PH61 034	034680	1	103	RIGHT	
PANEL-REAR *5472* 048	048203	1	103		
PANEL-SIDE-UPPER-LEFT *5472*	056012	1	103		
PANEL-SIDE-UPPER-RIGHT *5472*	056013	1	103		
PCB ACONTROL *PH61* UVC2 X52	X52547-SER	1	212		134/135
CHIP-SOFTWARE PH61 CTRL UVC2 X40	X40881	-	103		
PCB AUVC2 X51	X51169-SER	-	212	BASEBOARD	
PCB AINTERFACE-HT-SH-UK X53	X53452-SER	-	212		
PCB APERSONALITY-HT-SH X44	X44748-SER	1	212		
PCB AHEAT TREAT INTF BASE-UK X53	X53451-SER	-	212		
PLATE ADEC-5472* X45	X45356	1	NNN		
PLUG-Q.D. CO2 1/8 MP 021	021077	4	103	SYRUP TANK	
PLUG-Q.D. LIQ. 3/4-18 FP 021	021081	4	103	SYRUP TANK	
+ INSERT-QD PLUG	021081-1	4	103	FOR QD PLUG	
+ O-RING 016	016030	4	103	FOR QD PLUG	
PLUG-SYRUP HOLE 026	026278	4	000		
PROBE AMIX LOW-HT X42	X42077	1	103	MIX LOW	
+ DISC-PROBE *SQ HOLE* 030	030965	-	103		

CLASS CL	DESCRIPTION	PART	ατΥ.	WARR.	REMARKS	PARTS
ILE* 030966 1 103 E HOLE X41348 1 103 E HOLE-7/8 041347 1 103 D HOLE-5/8DIA 038061-BLK 1 103 E E-2% TOL 038070-BLK 2 103 VIS E 039470-BLK 2 103 VIS E 039470-BLK 2 103 VIS E 039470-BLK 2 103 VIS E 036210 1 103 VIS E 03603 1 103 VIS E 007538 1 103 VIS E 03153 1 103 VIS E 03527 1 103 VIS E 05643 1 103 VIS E 041785 1<		NUMBER		CLASS		UPDATE
E HOLEX413481103E HOLE-7/80413471103R E HOLE-7/80413471103D HOLE-5/8DIA0413471103EL-2% TOL03061-BLK1103EF-2% TOL039470-BLK2103FF-2% TOL039470-BLK2103V6 ET03952101103V6 ET03952101103V6 ET0352141103V8 ET075381103V6 ET05738141103MK EX57028-141103MK EX57028-141103MA EX57028-141103MA EX57028-141103MA EX57028-141103MA EX57028-141103MA EX57028-141103MA EX57028-141103MA P VALVE058771103M P VALVE058771103M P VALVE058771103M P VALVE053561103M P VALVE053561103M P VALVE0535261103M P	+ SPACER-PROBE *SQ HOLE*	030966	1	103		
RE HOLE-7/8 041347 1 103 D HOLE-5/8DIA 041347 1 103 EL-2% TOL 038061-BLK 1 103 ER-2% TOL 039470-BLK 2 103 FER-2% TOL 039470-BLK 2 103 FER-2% TOL 039470-BLK 2 103 FER-2% TOL 039470-BLK 2 103 Vi ET 0395210 1 103 Vi ET 036210 1 103 Vi ET 036214 1 103 MAE X57028-14 1 103 K-BLUE 05434 1 103 K-BLUE 054344 1 103 K-BLUE 054344 1 103 K-BLUE 056377 1 103 K-BLUE 055450 1 103 K-BLUE 05556 1 103 K-BLUE 053526 1 103 K-BLUE 053526 1 </td <td>PROBE AMIX OUT-SQUARE HOLE</td> <td>X41348</td> <td>1</td> <td>103</td> <td>MIX OUT</td> <td></td>	PROBE AMIX OUT-SQUARE HOLE	X41348	1	103	MIX OUT	
J HOLE-5/8DIA 041347 1 103 EL-2% TOL 033061-BLK 1 103 EL-2% TOL 0330470-BLK 2 103 FEX-2% TOL 0330470-BLK 2 103 TeT-2% TOL 033470-BLK 2 103 TeT-2% TOL 033470-BLK 2 103 TeT-2% TOL 0336210 1 103 Vast 043603 1 103 Vast 043613 1 103 MAE X57028-14 1 103 MAE X57028-14 1 103 K-BLUE 054944 1 103 K-BLUE 057344 1 103 K-BLUE 056450 1 103 MV VALVE 055327 1 103 K-BLUE 055450 1 103 MV VALVE 055526 1 103 FPM 041785-1 1 103 PLOUMP 041785-1	+ SPACER-PROBE-SQUARE HOLE-7/8	041346	-	103		
EL-2% TOL 038061-BLK 1 103 FER-2% TOL 039470-BLK 2 103 ToL 036210 1 103 ToL 036210 1 103 ToL 036210 1 103 ToL 036210 1 103 NET 07538 1 103 OF 07538 1 103 MC X57028-14 1 103 MC X57038-14 1 103 K-BLUE 054944 1 103 K-BLUE 055944 1 103 K-BLUE 055944 1 103 W VALVE 055071 1 103 MP VALVE 056873-14 1 103 K-BLUE 055945 1 103 K-BLUE 056873-14 1 103 K-BLUE 056877-14 1 103 K-BLUE 056877-1 1 103 <	+ SPACER-PROBE-ROUND HOLE-5/8DIA	041347	٢	103		
FFR-2% TOL 039370-BLK 2 103 16 THD 036210 1 103 16 THD 036210 1 103 N SET 037538 1 000 N SET 007538 1 103 N SET 007538 1 103 N SET 05708-14 1 103 AKE X57028-14 1 103 AKE 057944 1 103 K-BLUE 057944 1 103 MP VALVE 057944 1 103 FR 055945 1 000 MP VALVE 05556 1 103 FF 02051 1 103 MP VALVE 05556 1 103 SE 02051 1 103 MP VALVE 05556 1 103 MP VALVE 05556 1 103 SE 041785-3 1 103 <	PROBE-THERMISTOR-BARREL-2% TOL	038061-BLK	-	103	BARREL	
(16 THD 036210 1 103 N SET 043603 1 103 N SET 007538 1 000 N SET 007538 1 103 AKE 075738 1 103 AKE X57028-14 1 103 AKE X57028-14 1 103 K-BLUE 056873-14 1 103 K-BLUE 055944 1 103 K-BLUE 056873-14 1 103 K-BLUE 056873-14 1 103 K-BLUE 055827 1 103 K-BLUE 055826 1 103 MP VALVE 05556 1 103 SENDR 041785 1 103 MP VALVE 053526 1 103 CL PUMP 041785 1 103 OL PUMP 041785 1 103 MOTOR 041785 1 103	PROBE-THERMISTOR-HOPPER-2% TOL	039470-BLK	2	103	HOPPER	
V SET 043603 1 000 AKE 007538 1 103 AKE 007538 1 103 AKE x57028-14 1 103 AKE x57028-14 1 103 K-BLUE 054944 1 103 K-BLUE 056873-14 1 103 K-BLUE 05691 2 0 0 MP VALVE 05651 1 103 0 K-ALDE 053526 1 103 0 RPM 041785-3 1 103 0 RPM 041785-3 1 103 0 MOTOR 041785-3 1 103 0 </td <td>PULLEY-AGT DR-1.910PDX5/16 THD</td> <td>036210</td> <td>-</td> <td>103</td> <td>AGITATOR MOTOR</td> <td></td>	PULLEY-AGT DR-1.910PDX5/16 THD	036210	-	103	AGITATOR MOTOR	
007538 1 103 AKE X57028-14 1 103 AKE X57028-14 1 103 K-BLUE 05944 1 103 K-BLUE 057944 1 103 MP VALVE 057944 1 103 MP VALVE 05526 1 103 MP VALVE 055526 1 103 ChumP 041785 1 103 ChumP 041785 1 103 MOTOR 041785-3 1 103 MOTOR 041785-3 1 103 MOTOR 041785-3 1 103 MOTOR 04207-34 1 103 Se45 <td>+ SCREW-8-32 X 1/4 ALLEN SET</td> <td>043603</td> <td>-</td> <td>000</td> <td></td> <td></td>	+ SCREW-8-32 X 1/4 ALLEN SET	043603	-	000		
MAE 019153 1 103 AKE X57028-14 1 103 K-BLUE 054944 1 103 K-BLUE 05593-14 1 103 F 055944 1 103 F 055944 1 103 MP VALVE 055527 1 000 /#225 020051 2 000 /#225 020051 2 000 /#225 020051 2 000 /#225 020051 2 000 /#225 020051 1 103 PMD 041785 1 103 D< DUPUMP	PULLEY-AW62-5/8	007538	-	103	GEAR	
AKE X57028-14 1 103 K-BLUE 056873-14 1 103 K-BLUE 056873-14 1 103 E 056873-14 1 103 F.S HAKE 056873-14 1 103 F.S HAKE 055934 1 103 MP VALVE 05557 1 000 -#225 020051 2 000 -#225 020051 2 000 -#225 020051 2 000 -#225 020051 2 000 AFDM 041785 1 103 DL PUMP 041785-2 1 103 OL PUMP 041785-3 1 103 DOLOR 041785-3 1 103 DL PUMP 041785-3 1 103 D.MOTOR 041785-3 1 103 D.MOTOR 04207-34 1 103 D.Solf60 020505 1 103 <td>PULLEY-AK25-5/8</td> <td>019153</td> <td>-</td> <td>103</td> <td>BEATER MOTOR</td> <td></td>	PULLEY-AK25-5/8	019153	-	103	BEATER MOTOR	
K-BLUE 054944 1 103 E 056873-14 1 103 E 057944 1 103 MP VALVE 055873-14 1 103 MP VALVE 0553527 1 000 MP VALVE 055527 1 000 MP VALVE 055526 1 103 MP VALVE 055526 1 103 SEMM 041785 1 103 D 041785-2 1 103 OL PUMP 041785-3 1 103 OL PUMP 041785-3 1 103 OL PUMP 041785-3 1 103 MOTOR 041785-3 1 103 MOTOR 041785-3 1 103 Se645 042031 1 103 Se645 04205-3 1 103 Se645 042031 1 103 Se645 042031 1 103	PUMP AMIX SIMPLIFIED SHAKE	X57028-14	-	103		
E 056873-14 1 103 R SHAKE 057944 1 103 MP VALVE 057944 1 103 MP VALVE 05327 1 000 /+#225 020051 2 000 /+#225 020051 2 000 /+#225 020051 2 000 /+#225 020051 2 000 /+#225 020051 2 000 /+#225 020051 1 103 D 035526 1 1 103 RPM 041785-1 1 1 103 OL PUMP 041785-3 1 1 103 D 041785-3 1 1 103 D 041785-3 1 1 103 D 042031 1 1 1 1 D 04205-33 1 1 1 1 1 D 042013	ADAPTOR-MIX INLET-SHK-BLUE	054944	-	103		
R SHAKE 057944 1 103 MP VALVE 053527 1 000 MP VALVE 053527 1 000 /+#225 020051 2 000 /+#225 020051 2 000 RPM 0355450 1 103 D 053526 1 103 RPM 041785-1 1 103 OL PUMP 041785-2 1 103 OL PUMP 041785-3 1 103 MOTOR 04207-34 1 103 Sc645 026616 1 103 Sc645 026616 1 103 Sc645 026616 1 103 Sc645 026616 1 103 Sc645 1 1 103	CAP-VALVE BODY SHAKE	056873-14	1	103		
MP VALVE 053527 1 000 /#225 020051 2 000 /#225 020051 2 000 /#225 020051 2 000 /#225 020051 2 000 /#205 1 103 010 /#205 041785 1 103 PMP 041785-2 1 103 OL PUMP 041785-2 1 103 OL PUMP 041785-3 1 103 OL PUMP 041785-3 1 103 PMOTOR 041785-3 1 103 0 042031 1 103 50/60 012725-33 1 103 50/60 012725-33 1 103 50/60 025616 4 000 50/60 025616 4 000 5 045031 1 103 5 045031 1 103	CYLINDER-PUMP HOPPER SHAKE	057944	٢	103		
-#255 020051 2 000 -#225 x55450 1 103 ED x55450 1 103 ED 053526 1 103 RPM 041785 1 103 OL PUMP 041785-2 1 103 OL PUMP 041785-2 1 103 OL PUMP 041785-3 1 103 MOTOR 041785-3 1 103 MOTOR 041785-3 1 103 MOTOR 041785-3 1 103 S0/60 042131 1 103 S0/60 042131 1 103 S0/60 04207-34 1 103 S0/60 04207-34 1 103 S0/60 04207-34 1 103 S0/60 02816 4 000 S 041082 1 103 S 041082 1 103 S 24*L X42656 1 103 SENSOR 039096 1 103	GASKET-SIMPLIFIED PUMP VALVE	053527	-	000		
ED X55450 1 103 ED 053526 1 103 ED 053526 1 103 RPM 041785-1 1 103 OL PUMP 041785-2 1 103 OL PUMP 041785-3 1 103 OL PUMP 041785-3 1 103 NOTOR 041785-3 1 103 MOTOR 041785-3 1 103 E0/60 042013 1 103 2645 042007-34 1 103 2645 042007-34 1 103 2645 042007-34 1 103 270 042007-34 1 103 2645 042007-34 1 103 2645 042007-34 1 103 270 042007-34 1 103 270 042007-34 1 103 270 042007-34 1 103 270 042007-34 1 103 270 042007-34 1 103 270 042007-34 1 103 280 042007-34 1 103 280 042007-34	O-RING-2-1/8 OD X .139W-#225	020051	2	000		
ED 053526 1 103 RPM 041785-1 1 103 OL PUMP 041785-1 1 103 OL PUMP 041785-2 1 103 OL PUMP 041785-3 1 103 NOTOR 041785-3 1 103 MOTOR 042131 1 103 60/60 042131 1 103 50/60 012725-33 1 103 50/60 012725-33 1 103 50/60 012725-33 1 103 50/60 012725-33 1 103 50/60 012725-33 1 103 50/60 012725-33 1 103 50/60 012725-33 1 103 6/60 012725-33 1 103 50/60 012725-33 1 103 6/61 026816 4 103 5 035056 1 103 <td>PIN ARETAINING</td> <td>X55450</td> <td>٢</td> <td>103</td> <td></td> <td></td>	PIN ARETAINING	X55450	٢	103		
RPM 041785 1 103 OL PUMP 041785-1 1 103 L PUMP 041785-2 1 103 L PUMP 041785-3 1 103 MOTOR 041785-3 1 103 MOTOR 041785-3 1 103 MOTOR 042131 1 103 50/60 012725-33 1 103 50/60 012725-33 1 103 50/60 012725-33 1 103 50/60 012725-33 1 103 50/60 012725-33 1 103 50/60 012725-33 1 103 60/60 012725-33 1 103 50/60 02816 4 000 60/61 02816 1 103 7 041082 1 103 8 242658 1 103 6.241L X42656 1 103 <t< td=""><td>PISTON-PUMP-SIMPLIFIED</td><td>053526</td><td>1</td><td>103</td><td></td><td></td></t<>	PISTON-PUMP-SIMPLIFIED	053526	1	103		
OL PUMP 041785-1 1 103 L PUMP 041785-2 1 103 MOTOR 041785-3 1 103 MOTOR 041785-3 1 103 MOTOR 041785-3 1 103 50/60 042131 1 103 50/60 04207-34 1 103 2-645 042007-34 1 103 2-645 042007-34 1 103 2-645 042007-34 1 103 2-645 042007-34 1 103 2-645 042007-34 1 103 2-645 042007-34 1 103 2-645 042001 1 103 2-645 042001 1 103 2-645 041082 1 103 2 1 103 103 2 24*/L X42656 1 103 2-24*/L 039096 1 10	PUMP-GLYCOL-1/8NPT-1650 RPM	041785	-	103		
L PUMP 041785-2 1 103 • MOTOR 041785-3 1 103 • MOTOR 041785-3 1 103 50/60 042131 1 103 50/60 042131 1 103 2645 042007-34 1 103 2-645 042007-34 1 103 2-645 042007-34 1 103 2-645 042007-34 1 103 2-645 042007-34 1 103 2-645 042007-34 1 103 2-645 042007-34 1 103 2-645 0400 026816 4 000 S 041082 1 103 030 S 2-4 ⁺ L X42656 1 103 03 SENSOR 030096 1 103 03 03 03 03 03 03 03 03 03 03 03 03	MOTOR-SERVICE-GLYCOL PUMP	041785-1	٢	103		
MOTOR 041785-3 1 103 10	PUMP-SERVICE-GLYCOL PUMP	041785-2	-	103		
60/60 042131 1 000 50/60 012725-33 1 103 2-645 012725-33 1 103 2-645 042007-34 1 103 2-645 042007-27 1 103 2-645 032607-27 1 103 0 025816 4 000 0 025816 4 000 0 045031 1 000 S 041082 1 000 S 041082 1 103 S 24"L X42656 1 103 SENSOR 039096 1 103 103	MAGNET-GLYCOL PUMP MOTOR	041785-3	-	103		
50/60 012725-33 1 103 1 1 103	+ BOOT-GLYCOL PUMP	042131	-	000		
2-645 042007-34 1 103 2-645 032607-27 1 103 032607-27 1 103 032607-27 1 103 032607-27 1 103 032607 04 000 05816 4 000 045031 1 000 041082 1 000 X42658 1 103 -24"L X42656 1 103 SENSOR 039096 1 103	RELAY-3 POLE-20A-208/240 50/60	012725-33	-	103	MAIN COMPRESSOR	
032607-27 1 103 025816 4 000 025816 4 000 045031 1 000 S 041082 1 000 X42658 1 103 -24"L X42656 1 103 SENSOR 039096 1 103	RELAY-MTR START TI#4CR-2-645	042007-34	-	103	MOTOR REDUCER 50 & 60Hz	
025816 4 025816 4 S 045031 1 S 041082 1 X42658 1 -24"L X42656 1 SENSOR 039096 1	RELAY-SPDT-30 A-240 V	032607-27	٢	103	GLYCOL HEATER	
045031 1 S 041082 1 X42658 1 1 -:24"L X42656 1 SENSOR 039096 1	RESTRICTOR-SYRUP	025816	4	000		
S 041082 1 1 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2	SAMPLER-SYRUP	045031	1	000		
-24"L X42656 1 1 X42656 1 1 SENSOR 039096 1	SANITZER- KAY-5 125 PCKTS	041082	1	000		
X42656 1 SOR 039096 1	SENSOR AEVC-SHAKE-33"	X42658	1	103		
039096 1	SENSOR APYROELECTRIC-24"L	X42656	1	103		
	SHIELD-PYROELECTRIC SENSOR	039096	1	103		
SHAFT ADRIVE-MIX PUMP-HOPPER X41947 1 103	SHAFT ADRIVE-MIX PUMP-HOPPER	X41947	1	103		

DESCRIPTION	PART NUMBER	ατγ.	WARR. CLASS	REMARKS	PARTS
CRANK-DRIVE-HOPPER MIX PUMP	039235	٢	103		
O-RING 1/2 ID X.139W-206	048632	2	000		
O-RING-1-3/4 OD X .139W	008904	Ł	000		
SHAFT-DRIVE-MIX PUMP-HOPPER	041948	L	103		
SHAFT-BEATER *7QT FLUTED*	050985	L	103	USE W/ X50958 BEATER	
+ SEAL-DRIVE SHAFT	032560	٢	000		
SHELL AINSULATED *5472*HOOD	X45362-SER	٢	512		
STUD-FREEZER *8663*	034035	4	103		
+NUT-STUD *482-5472-8663-8634	034034	7	103		
SHIELD-SPLASH 15"L X 5-13/32"W	022763	F	103		
SLEEVE AMIX PUMP *HT*MCD	X44761	٢	103		
+ NUT-PUMP SLEEVE *8751*HT*	036933	F	103		
SOCKET-Q.D. LIQ90DEG-1/4BARB	021026	7	103		
STARTER-3 PHASE-3 TO 5 AMP	041950-33J	L	103		26
OVERLOAD-THERMAL	047150-33J	٦	103		101
SWITCH ADRAW *5472*	X45076-SER	L	103		
BEARING-SWITCH *482-8663*	034042	L	000		
BEARING-SWITCH *482-8663*	034043	2	000		
BRACKET AACTUATOR *5472 HT*	X41882	F	103		
BRACKET ADRAW SWITCH *5472HT	X41879	٢	103		
E-RING 1/4	032190	F	000		
INSULATOR-SWITCH 1/64 ARMITE	029099	٢	000		
NUT-PUSH ON-1/2DIA. SHAFT	039735	2	103		
ROD ADRAW *5472 HT*	X41880	L	103		
SWITCH-LEVER-SPDT-15A-125-250V	027214	L	103		
SWITCH-MEMBRANE-5 POSITION-8"L	044520	2	103	KEYPAD	
+ PLATE-BACK UP-MEMBRANE SWITCH	044578	2	103		
SWITCH-PRESSURE 440 PSI-SOLDER	048230	١	103		105
SWITCH-PRESSURE-240V, 3HP	063944-C	٢	103		
SWITCH-TOGGLE-DPDT*ON-NONE-ON	024295	1	103		
TANK-GLYCOL 1.5QT-PLASTIC	047314	1	103	J4020000/UP	79
CAP-GLYCOL TANK	047314-1	1	103	J4020000/UP	79
TANK-SYR-4 QT	045533	4	103		

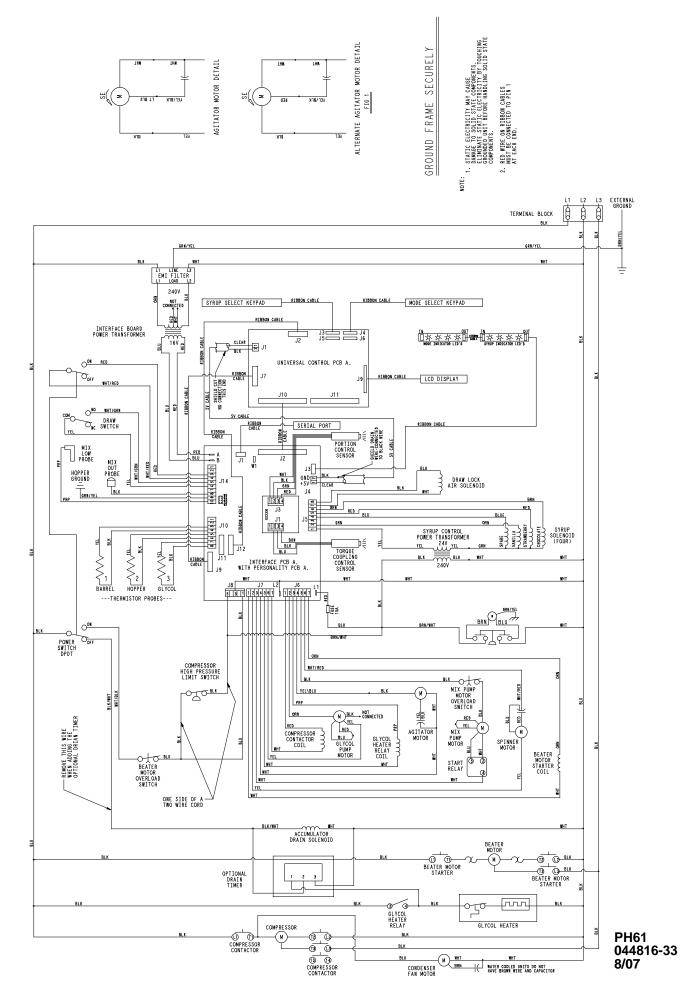
DESCRIPTION	PART NUMBER	ατγ.	WARR. CLASS	REMARKS	PARTS UPDATE
COVER-SYRUP TANK W/INLET FITTING	035759-1	4	103	INCLUDED W/TANK	
GASKET	016037	4	000		
+ DECAL-SYRUP TANK INSTRUCTION	045533-1	4	000		
TIP-NYLON-WHITE	042747	8	000		
TUBE-DIP	015441-7	4	103		
O-RING	018550	4	000		
TEE-ACCESS-5/16 HOSE W/5344COR	047587	Ł	000		
TOOL-COAX PUMP-LVB&DRIVE SHAFT	047919	Ł	000		
TOOL-SEAL INSTALL-REMOVE	035460	Ł	000		
TOOL-SHAFT-DRIVE-PUMP-HOPPER	057167	Ł	000		
TRANS240V PR1/24V SEC 10 VA	030132-27	Ł	103	SYRUP CONTROL	
TRANSCONT40VA 120/200/240V	045754	Ł	103	INTERFACE BOARD	
TRAY-DRIP 14-7/8L X 5-1/8 SGL	013690	١	103		
TRAY-PARTS-BARREL	044118	١	000		118
TRAY-PARTS-PUMP-SIMPLIFIED	056525	٢	000		
TRIM-REAR CORNER-LEFT	045516	١	103	ТЕЕТ	123
TRIM-REAR CORNER-RIGHT	045517	١	103	RIGHT	123
NUTSERT-10-32	047597	4	103	FOR REAR CORNER TRIM	123
TRIM ASHELF *5472*	X45334	Ł	103	BELOW SPLASH SHIELD	
TUBE AFEED-HOPPER-SHAKE	X56522	٢	103		
TUBE170 ID X .250 OD	075885-	115 ft	000	BULK UNDER P/N R40302	
TUBE-VINYL 1/4ID X 1/16WALL	020941-16	2	000	BULK UNDER P/N R30312	
TUBE-VINYL 1/8ID X 1/16 WALL	020938-17	4	000	BULK UNDER P/N R30301 (SYRUP MANIFOLD)	
VALVE ASYRUP CONTROL *5472*	X58145	١	103		
BRACKET AQEV MOUNT *5472*	X56790	1	103		
DECAL-SET-SYRUP VALVES	045521	1	000		
FITTING-ELBOW SYRUP MANIFOLD	050492	2	103		
FITTING-BARB SYRUP MANIFOLD	050493	1	103		
VALVE-SYRUP 5 BLOCK-QEV-TRAP	056494	1	103		
VALVE-ACCESS 1/4FL X 3/8SOLDER (LOW SIDE)	043232	1	103		
VALVE-ACCESS-1/4 MFLX1/4 S-90 (HIGH SIDE)	047016	1	103		80
VALVE-EXP-AUTO-1/4S X1/4 FPT	046365	1	103		80
WASHER-PLASTIC PIVOT	013808	2	000	SWING PANEL	

DESCRIPTION	PART NUMBER	ατγ.	WARR. CLASS	REMARKS	PARTS UPDATE
WATER COOLED					
ADAPTOR-3/8MP X 1/2BARB-BR	011021	2	103		
BLOWER-100CFM	012796-27	1	103	208-230V 60HZ 3PH	
BRACKET-MOUNTING-WATER VALVE	038777	Ļ	103		
+SCREW-8-32X5/16 PHIL PAN EXT.	038778	2	000		
CONDENSER-W/C-COAX	047540	١	103		08
+ELBOW-5/8S X 1/2S SHORT RADIUS	017303	2	103		
+ELBOW-1/20D COPPER X 1/2 HOSE	034095	2	103		
CLAMP-HOSE-ADJ 7/16 X 25/32	010031	4	000		
GUARD-BLOWER	022505	٢	103		
HOSE-RUBBER-1/2" ID X 7/8" OD	R50200	4 ft	000		
MANIFOLD-1/2S THRU-1/4S OUT-3	046688	-	103		
SWITCH-PRESSURE 350 PS1-SOLDER	048231	Ļ	103		105
SWITCH-PRESSURE-240V, 3HP	063944-C	-	103		
VALVE-WATER 3/8 REG/HEAD	046686	Ļ	103		80
50Hz					
BLOCK-TERMINAL 7P GREEN	024156	2	103	220-240V 50HZ 3PH - 200V 50/60HZ 3PH -	
BLOCK-TERMINAL 7P GREEN	024156	1	103	380-415V 50HZ 3N~ (4WIRE)	
BLOCK-TERMINAL 4P L1,L2,L3,N	039424	-	103	380-415V 50HZ 3N~ (4WIRE)	
COMPRESSOR M63B203DBDB	062274-33	1	512	220-240V 50HZ 3PH	
COMPRESSOR M63B203DBEB	062274-58	1	512	380-415V 50HZ 3N~ (4WIRE)	
DIAGRAM-WIRING *PH61*	044816-35	1	NNN	220-240V 50HZ 3PH	
DIAGRAM-WIRING *5472*	044816-39	1	NNN	200V 50/60HZ 3PH	
DIAGRAM-WIRING *5472*UNIVERSAL	044816-62	1	NNN	380-415V 50HZ 3N~ (4WIRE)	
DVD-OPS TRAINING VIDEO *PH61*	049663-DVD	1	000		
HARNESS-WIRE 5472 COMP. W/GRND	056889-G	٢	NNN	220-240V 50HZ 3PH - 200V 50/60HZ 3PH - 380-415V 50HZ 3N~ (4WIRE)	
HARNESS-WIRE 5472 COND FAN MTR	056893-G	Ļ	NNN	220-240V 50HZ 3PH - 380-415V 50HZ 3N~ (4WIRE)	
HARNESS-WIRE-BTR MTR H60-H63	056890-G	٢	NNN	220-240V 50HZ 3PH - 200V 50/60HZ 3PH - 380-415V 50HZ 3N~ (4WIRE)	
HARNESS-WIRE 5472 AGITATOR MTR	056891-G	-	NNN	220-240V 50HZ 3PH - 200V 50/60HZ 3PH - 380-415V 50HZ 3N~ (4WIRE)	

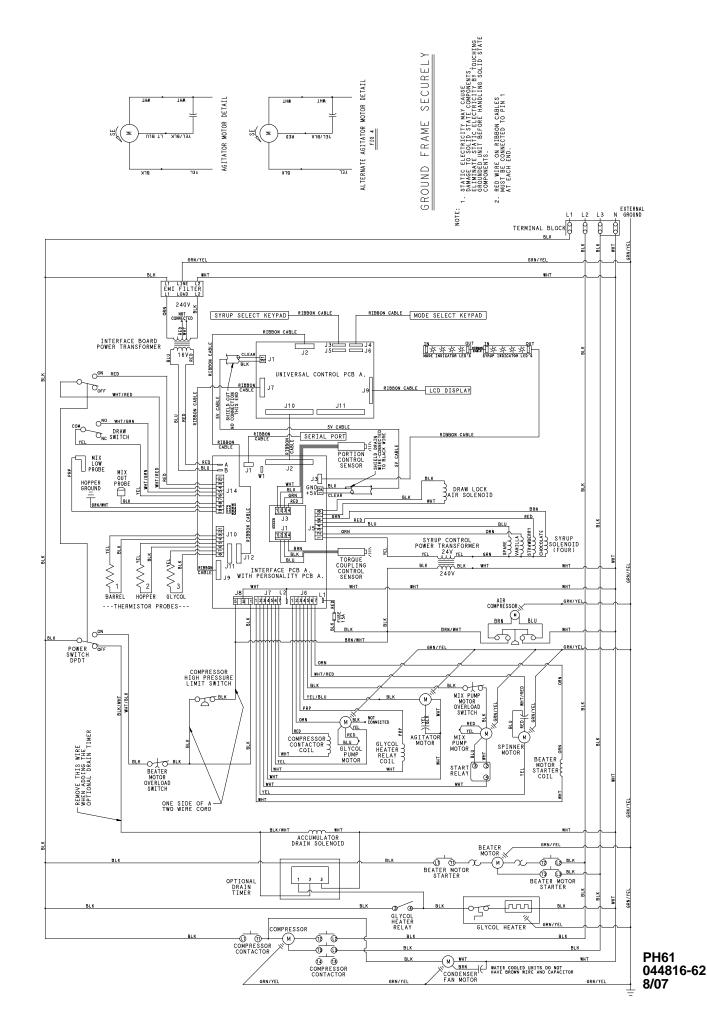
CLASS CLASS 1 NNN 220-240V 50HZ 3PH - 200V 50/60HZ 3PH 1 NNN 380-415V 50HZ 3N- (4WIRE) 1 NNN 380-415V 50HZ 3N- (4WIRE) 1 103 220-240V 50HZ 3PH - 380-415V 50HZ 3N- (4WIRE) 1 103 220-240V 50HZ 3PH - 380-415V 50HZ 3N- (4WIRE) 1 212 220-240V 50HZ 3PH - 380-415V 50HZ 3N- (4WIRE) 1 212 220-240V 50HZ 3PH - 380-415V 50HZ 3N- (4WIRE) 1 212 220-240V 50HZ 3PH - 380-415V 50HZ 3N- (4WIRE) 1 212 220-240V 50HZ 3PH - 380-415V 50HZ 3N- (4WIRE) 1 212 220-240V 50HZ 3PH - 380-415V 50HZ 3N- (4WIRE) 1 103 220-240V 50HZ 3PH - 380-415V 50HZ 3N- (4WIRE) 1 103 220-240V 50HZ 3PH - 380-415V 50HZ 3N- (4WIRE) 1 103 220-240V 50HZ 3PH - 380-415V 50HZ 3N- (4WIRE) 1 103 220-240V 50HZ 3N- (4WIRE) 1	DESCRIPTION	PART	ατγ.	WARR.	REMARKS	PARTS
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