Models C706 & C707

Soft Serve Freezer

Service Manual

056436-S

3/14/03

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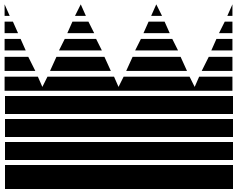
Note: Continuing research results in steady improvements; therefore, information in this manual is subject to change without notice.

CAUTION: Information in this manual is intended to be used by Taylor Authorized Service Technicians only.

056436–S

TAYLOR®

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



Section 1: Introduction

- **Specifications**
- **Running Specifications**
- **Installation Instructions**
- **Important: To The Operator**

Safety

We at Taylor Company, are committed to manufacturing safe operating and serviceable equipment. The many built-in safety features that are part of all Taylor equipment are aimed at protecting operators and trained service technicians alike.

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.

This manual is intended exclusively for Taylor Company authorized service personnel.

Refrigerant

Taylor Company uses R404A refrigerant in the standard softserve freezers. This refrigerant is generally considered non-toxic and non-flammable; however, any gas under pressure is potentially hazardous.

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.

The Taylor Company 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.

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 owners' responsibility to make this fact known to any technicians they employ.

It should 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.

The Taylor Company 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, call the local Taylor Distributor or the Taylor Factory. Be prepared to provide the model/serial number of the unit in question.

C706 Specifications

The C706 is a pump style, single flavor soft serve freezer.

Freezing Cylinder

One, 3.4 quart (3.2 liter).

Mix Hopper

One, 20 quart (18.9 liter).

Beater Motor

One, 1.5 HP.

Refrigeration Unit

One, 9,500 BTU/hr. R404A.
Separate Hopper Refrigeration (SHR), One 400 BTU/hr. R134a. (BTU's may vary depending on compressor used.)

Electrical

Electrical	Maximum Fuse Size	Minimum Circuit Ampacity	Poles (P) Wires (W)
208-230/60/1 Air	35	26	2P 3W
208-230/60/3 Air	25	19	3P 4W
220-240/50/1 Air	30	24	2P 3W
220-240/50/1 Water	30	24	2P 3W
220-240/380-415/50/3 Air	12	10	4P 5W

This unit may be manufacturered with other electrical characteristics. (For exact electrical information, always refer to the data label of the unit.)

This unit is designed and constructed to meet stringent safety and sanitation requirements for NSF and other food service regulatory agencies.

Air Cooled

A minimum of 6" (152 mm) air clearance is required on both sides. Place the back of the unit against a wall to prevent recirculation of warm air. Minimum air clearances must be met to assure adequate air flow for optimum performance.

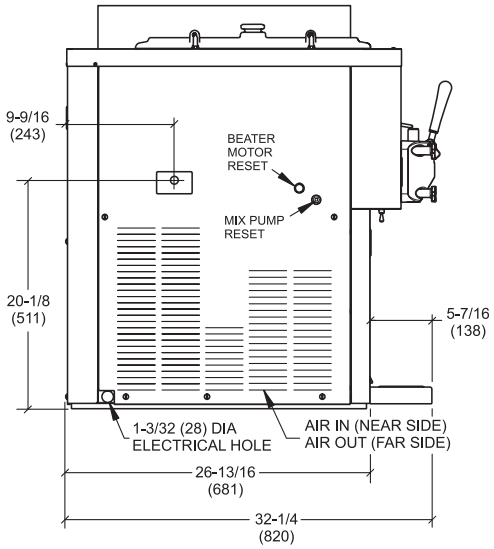
An optional air discharge chute directs air exhaust upward. No clearance is required on the right side if the air discharge chute is used.

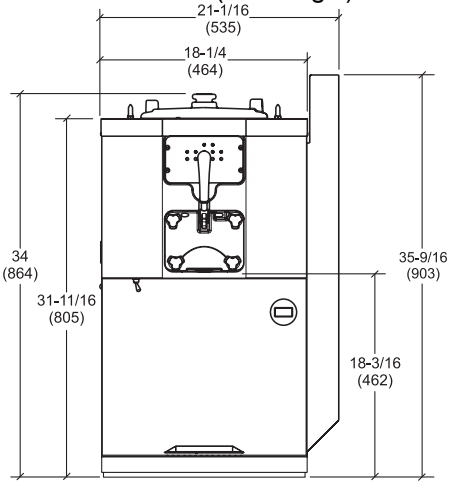
Dimensions

Width: 18-1/4" (464 mm)
Depth: 34" (864 mm)
Height: 33-7/8" (860 mm)
Floor Clearance: Unit is designed to rest on a plastic pad directly on the counter top.

Approximate Weights

Net: 385 lbs. (176.6 kgs.)
Crated: 425 lbs. (192.8 kgs.)





NOTE: FIGURES IN PARENTHESES INDICATE MILLIMETERS.

040809

C707 Specifications

The C707 is a gravity fed, single flavor soft serve freezer.

Freezing Cylinder

One, 3.4 quart (3.2 liter).

Mix Hopper

One, 20 quart (18.9 liter).

Beater Motor

One, 1.5 HP.

Refrigeration Unit

One, 9,500 BTU/hr. R404A.
Separate Hopper Refrigeration (SHR), One 400 BTU/hr. R134a. (BTU's may vary depending on compressor used.)

Electrical

Electrical	Maximum Fuse Size	Minimum Circuit Ampacity	Poles (P) Wires (W)
208–230/60/1 Air	35	25	2P 3W
208–230/60/3 Air	25	18	3P 4W
220–240/50/1 Air	30	23	2P 3W
220–240/380–415/50/3 Air	12	9	4P 5W

This unit may be manufacturered with other electrical characteristics. (For exact electrical information, always refer to the data label of the unit.)

This unit is designed and constructed to meet stringent safety and sanitation requirements for NSF and other food service regulatory agencies.

Air Cooled

A minimum of 6" (152 mm) air clearance is required on both sides. Place the back of the unit against a wall to prevent recirculation of warm air. Minimum air clearances must be met to assure adequate air flow for optimum performance.

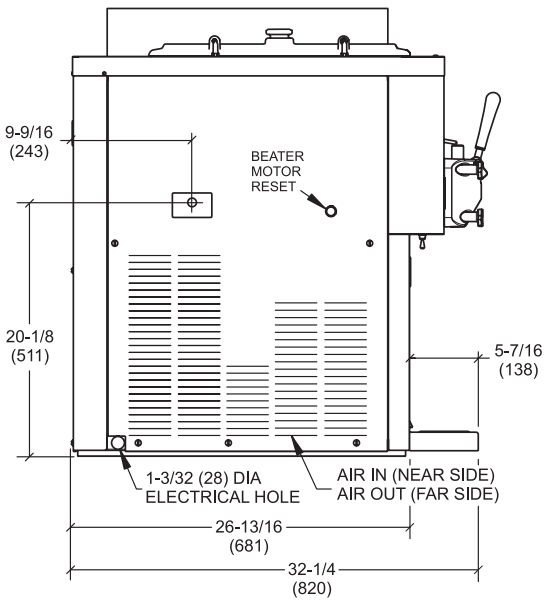
An optional air discharge chute directs air exhaust upward. No clearance is required on the right side if the air discharge chute is used.

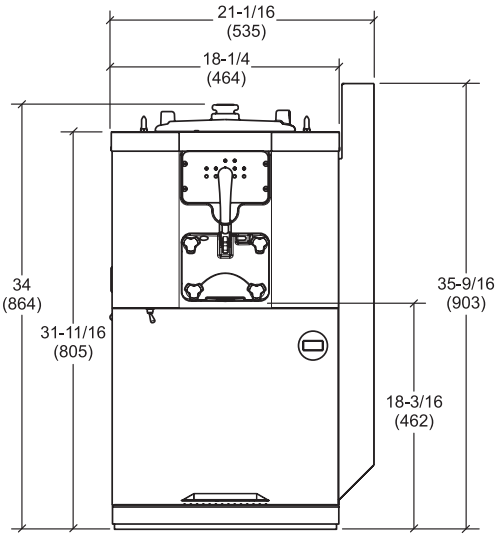
Dimensions

Width: 18-1/4" (464 mm)
Depth: 34" (864 mm)
Height: 33-7/8" (860 mm)
Floor Clearance: Unit is designed to rest on a plastic pad directly on the counter top.

Approximate Weights

Net: 335 lbs. (152.0 kgs.)
Crated: 375 lbs. (170.1 kgs.)





NOTE: FIGURES IN PARENTHESES INDICATE MILLIMETERS.

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Installation Instructions

Air Cooled Units

A minimum of 6" (152 mm) air clearance is required on both sides. Place the back of the unit against a wall to prevent recirculation of warm air. Minimum air clearances must be met to assure adequate air flow for optimum performance.

An optional air discharge chute directs air exhaust upward. No clearance is required on the right side if the air discharge chute is used.

Water Cooled Units

An adequate cold water supply must be provided with a hand shut-off valve. On the underside rear of the base pan, two 3/8" I.P.S. water connections for inlet and outlet have been provided for easy hook-up. 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.**

Electrical Connections

Each freezer requires one dedicated power supply for each data label. 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.

In the United States, this equipment is intended to be installed in accordance with the National Electrical Code (NEC), ANSI/NFPA 70–1987. In all other areas of the world, equipment should be installed in accordance with the existing local codes. Please contact your local authorities. 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!

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

FOLLOW YOUR LOCAL ELECTRICAL CODES!

Beater Rotation

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

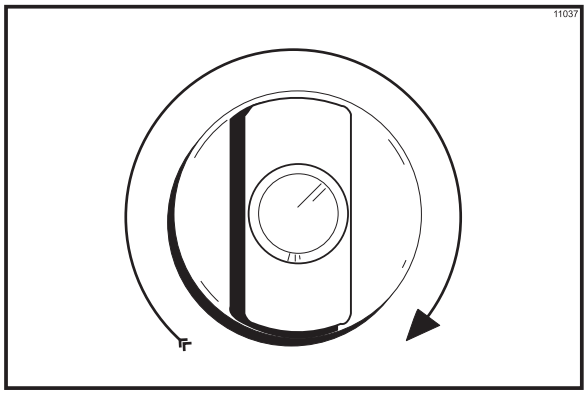


Figure 1

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

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

CAUTION: Make sure the power switch is in the OFF position before correcting the beater rotation. Failure to do so may result in electrocution or component damage.

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

Installation of Cone Dispenser (X48464)

The cone dispenser can be mounted to either the left or right side of the machines. Two holes must be created in the side of the machine.

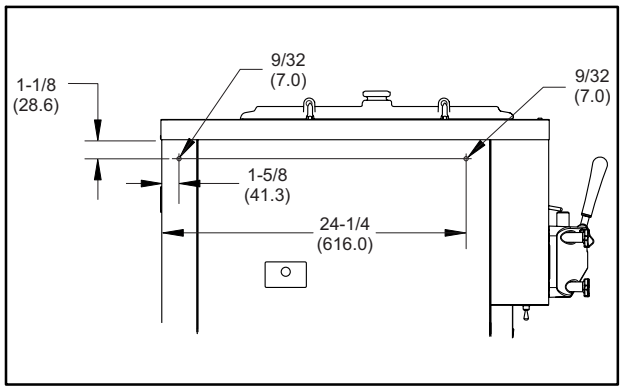
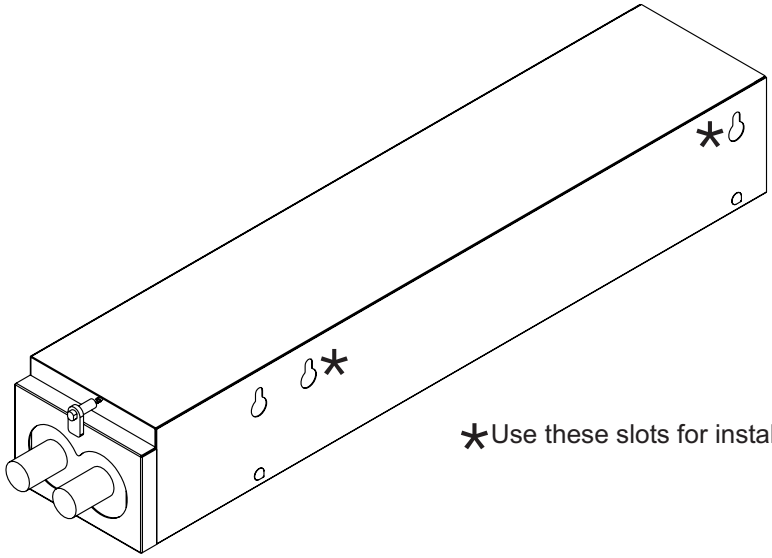


Figure 2

The following components are contained in the X48464 Cone Dispenser Kit:

DESCRIPTION	PART NO.	QTY.
DISPENSER A.-CONE-DRAWER-DBL	X48465	1
SCREW-10-32 X 3/4 OVAL HD	001086	2
COLLAR-HOLDING	019481	2
NUTSERT-10-32	021106	2
INSTRUCTION-CONE DISPENSER	048464-INS	2

NOTE: USE FIGURE 3 INSTEAD OF THE 048464-INS.



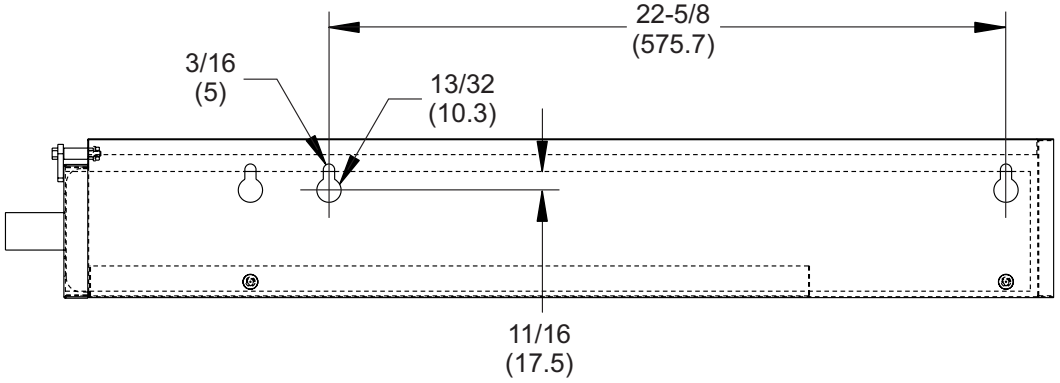


Figure 3

Installation of Syrup Rail (X48015-27)

The syrup rail can be mounted to either the left or right side of the C706 or C707 units regardless of whether the top air discharge chute is used. The syrup rail can mount to only the left side of the C708 or C709 if the top air discharge chute is not used. If a top air discharge chute is used with the C708/C709, then the syrup rail can be mounted to either side.

Perform the following steps to mount the syrup rail on the side of a unit where a top air discharge chute is not installed:

1. Remove the (4) panel screws as shown in Figure 4.

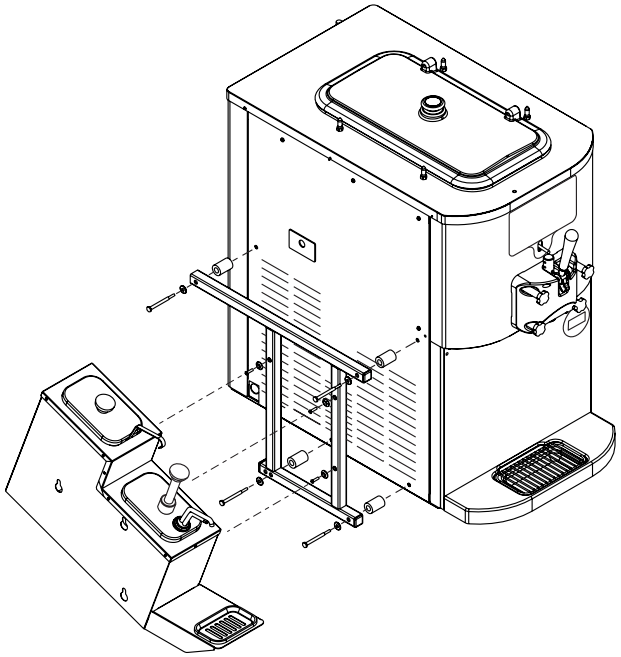


Figure 4

2. Install the Mounting Assembly – Syrup Rail (X57317) using the (4) Spacers (053600) and the (4) Screws-1/4-20X3 HEX CAP (025984) with (4) Washers (000655).
3. Install the (4) Plugs – Square Tubing (057381) in the ends of the Mounting Assembly – Syrup Rail (X57317).
4. Install the (3) Holding Collars (046551) using the (3) Screws-10-32X3/4 OVAL HD-SS.
5. Hang the Syrup Rail Assembly (048015-27) on the holding collars.

Perform the following steps to mount the syrup rail on the side of a unit where a top air discharge chute is installed:

1. Three holes must be created in the side of the chute as in the Figure 5.

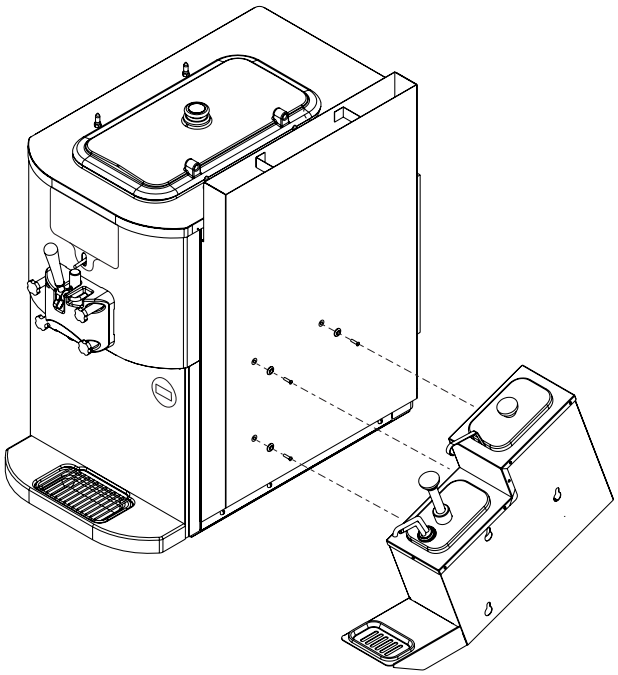


Figure 5

2. Install the (3) Nutserts (021106) in the panel.
3. Install the (3) Holding Collars (046551) using the (3) Screws-10-32X3/4 OVAL HD-SS
4. Hang the Syrup Rail Assembly (048015-27) on the holding collars.

The following parts will be needed to mount the syrup rail on the side of a unit where a top air discharge chute is installed:

DESCRIPTION	PART NO.	QTY.
RAIL A.-SYRUP-HEATED-SIDE MOUNT	X48015-27	1
PUMP A.-SYRUP-HEATED-BRN	X53800-BRN	1
SCREW-10-32 X 3/4 OVAL HD	001086	3
NUTSERT 10-32	021106	3
CARTON-23 X 17 X 11-1/2	025265	1
BAG-POLY 10 X 14	025309	1
LADLE-1 O. 120D BEND	033637-1	1
JAR-SYRUP*PLASTIC*	036573	1
JAR-SYRUP*STAINLESS*	036574	1

DESCRIPTION	PART NO.	QTY.
LID-SYRUP JAR	042706	1
COLLAR-HOLDING	046551	3
TRAY-DRIP-SIDE MT SYRUP	048017	1
SHELF-DRIP TRAY SYRUP	048029	1
BAG-ZIPLOC 4 X 6 2 MIL	048473	1
MOUNTING A.-SYRUP RAIL	X57317	1
PLUG-CAP 1” SQ. TUBING	057381	4
SCREW-1/4 -20 X 3 HEX CAP	025984	4
WASHER-1/4	000655	4
SPACER	053600	4

Running Specifications

Pressures/Temperatures

The following are the **Taylor Company** recommended settings for various components in the models C706 and C707. These freezers use Refrigerant HP62 (R404A).

Expansion Valve

Soft Serve

Air Cooled: 20 – 22 psi. (138 – 152 kPa)
Water Cooled: 20 to 22 psi. (138 to 152 kPa) for a normal product of 16° to 18°F. (-8.8°to -7.7° C.).

Expansion Valve Adjustment

Place your gauge on the access valve on the suction line (located at the compressor).

Adjust the pressure higher or lower by turning the adjustment screw. Clockwise turns will raise the pressure and counterclockwise turns will lower the pressure.

Note: Make expansion valve adjustments with mix in the cylinder and the freezer in the AUTO mode. Be sure to allow adequate time for the pressure to stabilize.

Low Side (Suction)

Suction pressure equals the expansion valve setting.

High Side (Discharge)

High side pressure varies for air cooled units, depending on the ambient temperature.

Ambient Temperature		Normal Operating Head Pressures
F.°	C.°	PSI
70°	21.1°	240 - 270 (1,655 - 1,862 kPa)
80°	26.7°	270 - 300 (1,862 - 2,069 kPa)
90°	32.2°	300 - 340 (2,069 - 2,344 kPa)
100°	37.8°	340 - 380 (2,344 - 2,620 kPa)

Water Valve

On a water cooled unit, the water valve should be set to maintain a compressor head pressure of 255 psi. (1,758 kPa).

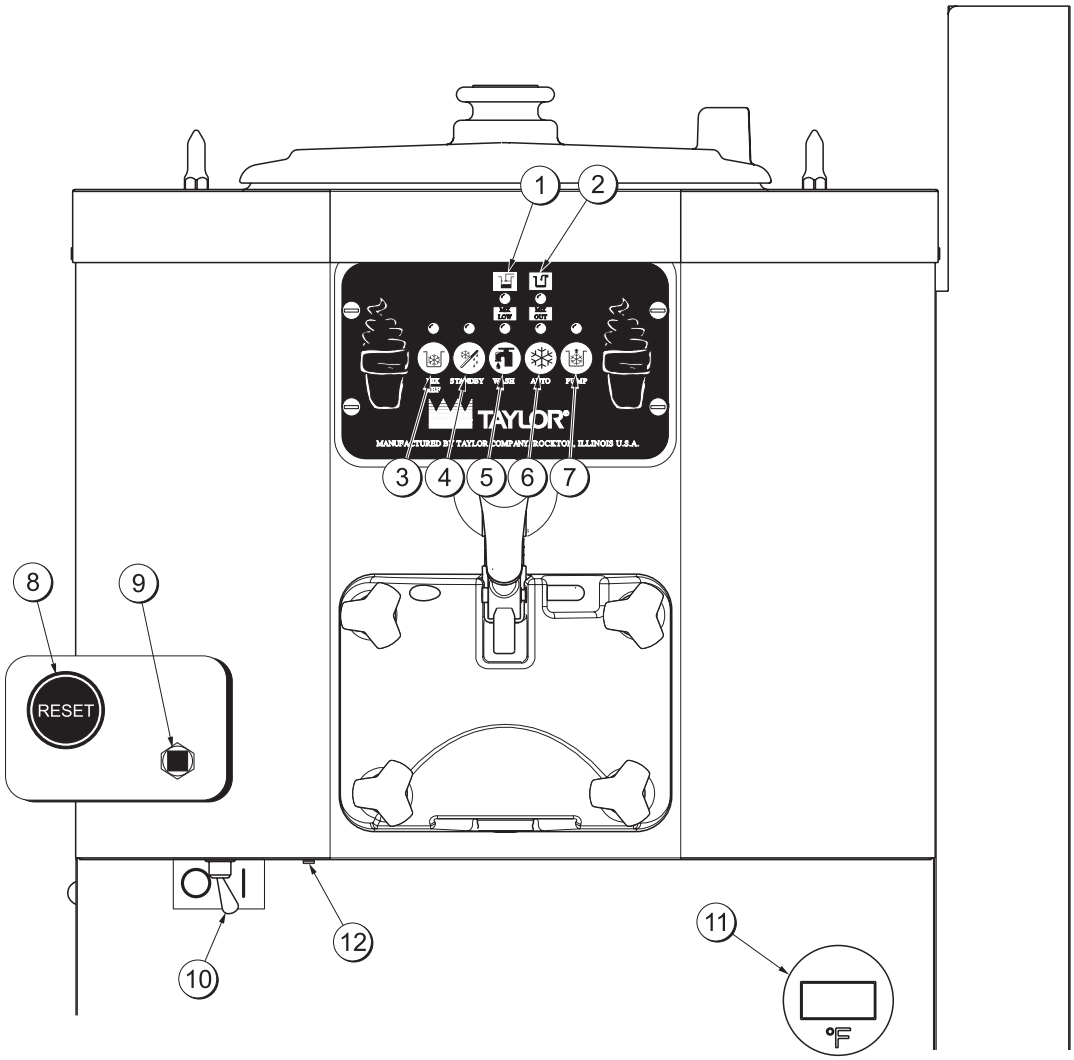
Water Valve Adjustment

Place your gauge on the high side access port of the compressor. Turning the adjustment stem on the water valve clockwise will lower the pressure.

Note: Make this adjustment with mix in the cylinder and the freezer in the AUTO mode. Be sure to allow adequate time for pressure to stabilize.

Important: To The Operator

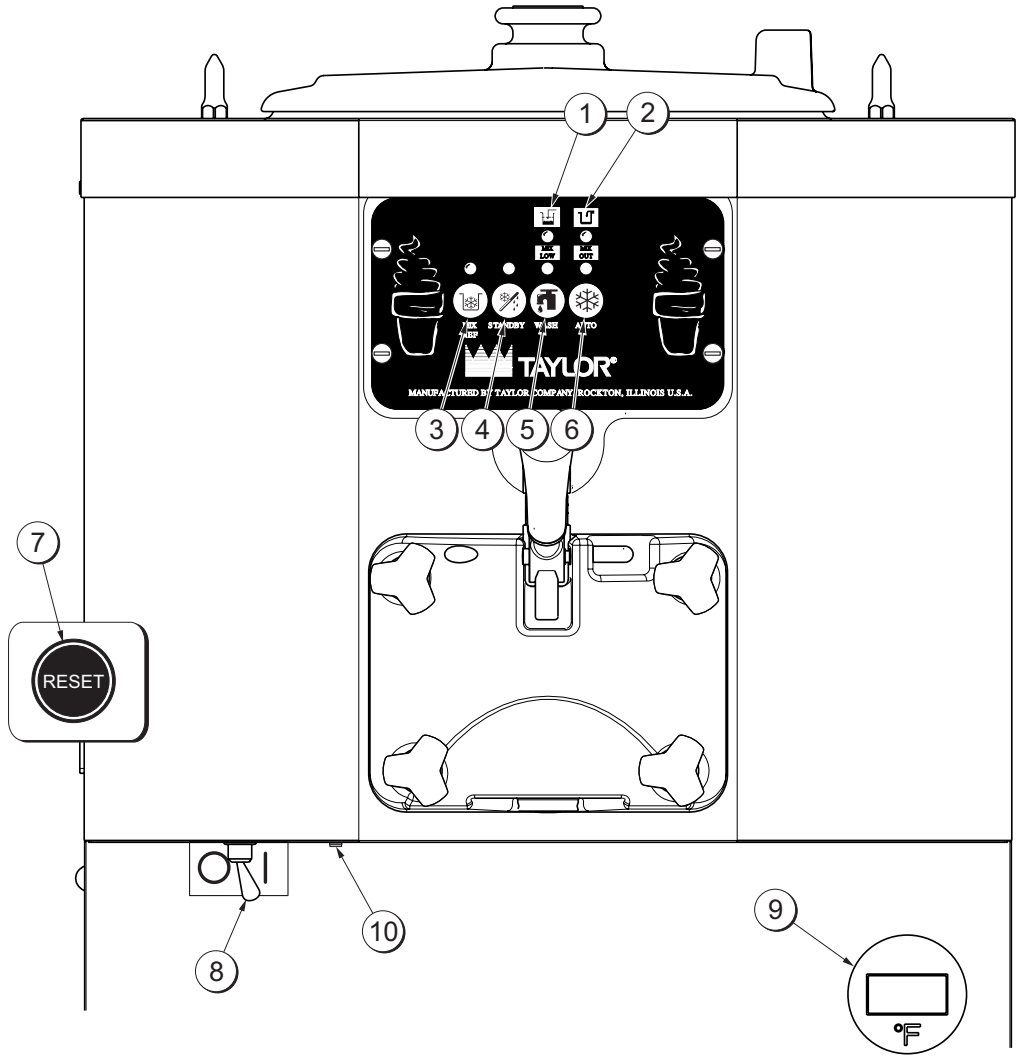
C706



ITEM	DESCRIPTION
1	MIX LOW INDICATOR LIGHT
2	MIX OUT INDICATOR LIGHT
3	MIX REFRIGERATION KEY
4	STANDBY KEY
5	WASH KEY
6	AUTO KEY

ITEM	DESCRIPTION
7	PUMP KEY
8	RESET BUTTON – BEATER MOTOR
9	RESET BUTTON – PUMP
10	POWER SWITCH (TOGGLE)
11	HOPPER TEMP. INDICATOR
12	FLAVOR BURST JACK

C707



ITEM	DESCRIPTION
1	MIX LOW INDICATOR LIGHT
2	MIX OUT INDICATOR LIGHT
3	MIX REFRIGERATION KEY
4	STANDBY KEY
5	WASH KEY

ITEM	DESCRIPTION
6	AUTO KEY
7	RESET BUTTON – BEATER MOTOR
8	POWER SWITCH (TOGGLE)
9	HOPPER TEMP. INDICATOR
10	FLAVOR BURST JACK

Symbol Definitions

To better communicate in the International arena, symbols have replaced words on many of our operator switches, function, and fault indicators. Your Taylor equipment is designed with these International symbols.

The following chart identifies the symbol definitions.

 = OFF

 = ON

 = MIX LOW

 = MIX OUT

 = MIX REF

 = STANDBY

 = WASH

 = AUTO

 = PUMP

Power Switch

When placed in the ON position, the power switch allows SOFTECH control panel operation.

Indicator Lights

MIX LOW

When the MIX LOW light begins to flash, it indicates that the mix tank has a low supply of mix and should be refilled as soon as possible.

MIX OUT

When the MIX OUT light begins to flash, it indicates that the mix tank has been almost completely exhausted and has an insufficient supply of mix to operate the freezer. At this time, the STANDBY and AUTO modes are locked out and the freezer shuts down. To initiate the refrigeration system, add mix to the tank and press the AUTO key. The freezer will automatically begin operation.

MIX REF Key

When the MIX REF key is pressed, the light comes on indicating the mix hopper refrigeration system is operating. The MIX REF function cannot be cancelled unless the AUTO or STANDBY modes are cancelled first.

STANDBY Key

The Separate Hopper Refrigeration System (SHR) and the Cylinder Temperature Retention System (CTR) are standard features. The SHR incorporates the use of a separate small refrigeration system to maintain the mix in the hopper below 40°(4.4°C) to assure bacteria control. The CTR works with the SHR to maintain a good quality product. During long “No Sale” periods, it is necessary to warm the product in the freezing cylinder to approximately 35°F to 40°F (1.7°C to 4.4°C) to prevent overbeating and product breakdown.

To activate the SHR and CTR, press the STANDBY key. On the model C707, remove the air orifice and place the air tube (**end without the hole**) into the mix inlet hole.

When the STANDBY key is pressed, the light comes on, indicating the CTR (Cylinder Temperature Retention System) has been activated. In the STANDBY mode, the WASH and AUTO functions are automatically cancelled. The MIX REF function is automatically locked in to maintain the mix in the hopper.

To resume normal operation, press the AUTO key. When the unit cycles off, the product in the freezing cylinder will be at serving viscosity. On the model C707, place the air tube (**end with the hole**) into the mix inlet hole and install the air orifice.

WASH Key

When the WASH key is pressed, the light comes on. This indicates beater motor operation. The STANDBY or AUTO modes must be cancelled first to activate the WASH mode.

AUTO Key

When the AUTO key is pressed, the light comes on. This indicates that the main refrigeration system has been activated. In the AUTO mode, the WASH or STANDBY functions are automatically cancelled. The MIX REF function is automatically locked in to maintain the mix in the mix hopper.

Note: An indicating light and an audible tone will sound whenever a mode of operation has been pressed. To cancel any function, press the key again. The light and mode of operation will shut off.

Pump Key (C706 Only)

When the PUMP key is pressed, the light comes on, indicating the air/mix pump will operate as required.

Reset Button

The reset button is located on the side of the unit. The reset protects the beater motor from an overload condition. If an overload occurs, the reset mechanism will trip. To properly reset the freezer, press the AUTO key to cancel the cycle. Turn the power switch to the OFF position. Press the reset button firmly.

Do not use metal objects to press the reset button. Failure to follow this instruction may result in electrocution.

Turn the power switch to the ON position. Press the WASH key and observe the freezer's performance. Open the side access panel. Make sure the beater motor is turning the drive shaft in a clockwise direction (from the operator end) without binding.

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.

Air/Mix Pump Reset Mechanism

The reset button for the pump is located on the side of the unit. This reset protects the pump from an overload condition. Should an overload occur, the reset mechanism will trip. To reset the pump, press the reset button firmly.

Adjustable Draw Handle

The Model C706 and C707 feature an adjustable draw handle to provide the best portion control. The draw handle should be adjusted to provide a flow rate of 5 to 7-1/2 oz. of product per 10 seconds. To INCREASE the flow rate, turn the screw CLOCKWISE. Turn the screw COUNTER-CLOCKWISE to DECREASE the flow rate. During "Sanitizing" and "Rinsing", the flow rate can be increased by removing the pivot pin and placing the restrictive bar on the TOP. When drawing product, **always** place the restrictive bar on the bottom.

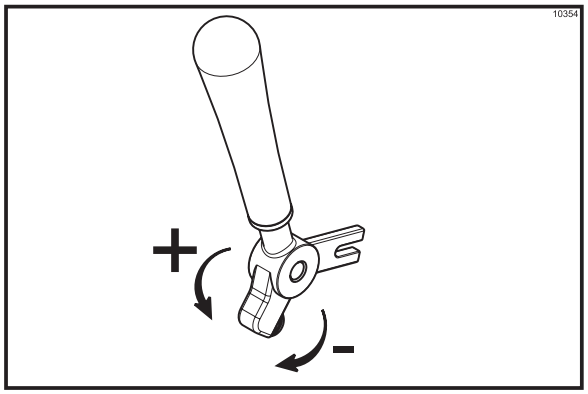


Figure 6

Air Tube (Back-up Option)

If the air/mix pump has become inoperable because of a missing or damaged part, the operator can temporarily operate the unit using the air tube. The product ejection rate will be slower when the air tube is used instead of the air/mix pump.

The air tube serves two purposes. One end of the tube has a hole and the other end does not.

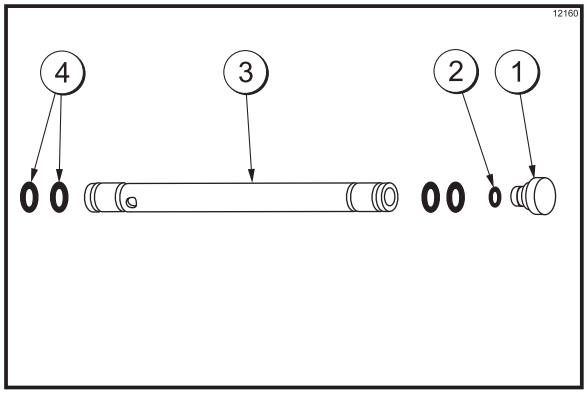


Figure 7

ITEM	DESCRIPTION	PART NO.
1	ORIFICE	022465-100
2	O-RING-3/8 OD X .070 W	016137
3	TUBE A.-FEED-SS 5/32 HOLE	X29429-2
4	O-RING-.643 OD X .077 W	018572

After priming the machine, lubricate the o-rings on the air tube (**the end with the hole**) and place it into the mix inlet hole. Every time the draw handle is raised, new mix and air from the hopper will flow down into the freezing cylinder. This will keep the freezing cylinder properly loaded and will maintain overrun.

During long “No Sale” periods, remove the air orifice. Lubricate the o-rings on the air tube (**the end without the hole**), and place it into the mix inlet hole. This will prevent any mix from entering the freezing cylinder.

The air orifice is used to meter a certain amount of air into the freezing cylinder. The air orifice maintains overrun and allows enough mix to enter the freezing cylinder after a draw.

Syrup Rail Operating Procedures (Optional Feature)

Remove the stainless steel syrup jar with the topping pump from the syrup rail. Check the water level in the well. Make sure the water is filled to the indicating mark on the inside wall (16 oz / 473 ml). Check the water daily.

Place the heater switch in the ON position. The heating process will take approximately 1-1/4 hours.

Prepare a pail of an approved 100 PPM sanitizing solution (example: Kay-5®). USE WARM WATER AND FOLLOW THE MANUFACTURER’S SPECIFICATIONS.

Sanitize the pump by placing the entire asssembly in the solution. Pump the solution through the pump until it is sanitized.

Fill the heated and the room temperature syrup jars with toppings. Place the topping pump in the heated syrup jar. Sanitize the ladle and place it in the room temperature jar.

Section 2: Controls

- **Generation II Logic Board**
- **Service Tips for Generation II Boards**
- **Troubleshooting Power Board**
- **Control Overview**
- **Pump Operation**

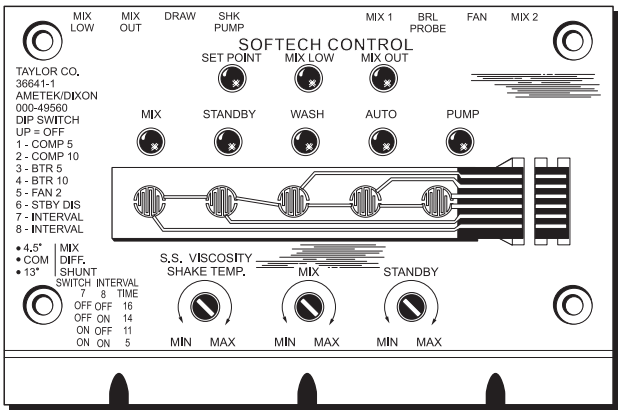
Generation II Logic Board

The Generation II logic board's primary function is to interpret modes of operation. The board monitors mix levels and temperatures by sending commands to the control's power board. Commands are sent via a ribbon cable, enabling the proper relays on the power board to open or close. (See illustration on page 28.)

Function

Interpret a mode of operation/monitor mix level and temperature/monitor product viscosity or product temperature and send a command to the power board through a ribbon cable enabling the proper relays on the power board to be open or closed.

Logic Board Part Numbers



As of July, 1996 we have modified the differential on Generation II controls from 13°F/7.2°C to 4.5°F/2.5°C in order to meet the new NSF mix temperature requirements. The new control has a shunt (jumper) to select proper temperatures. This shunt is located beneath the dip switches on the left side of the control. The shunt is set in the upper position for 4.5°F/2.5°C differential for use on mix hopper systems and in the lower position for 13°F/7.2°C differential for use on mix cabinet systems. The new control is compatible with older units. This change will require new part numbers as follows:

Old Part No.	New Part No.
X36641-SER Gen. II	X36641SER1
X38523-SER Gen. II-W/Chime	X38523SER1
X41072-SER Gen. II-W/EVC	X41072SER1
X42002-SER Gen. II-Hopper Pump	X42002SER1

Power Board Part Number

X32326-SER

Thermistor Probes

There are three types of thermistor probes used on softech freezers. The resistance value of the thermistor probes corresponds with the temperature. As the temperature becomes warmer, the probe resistance decreases.

- X31602 – Barrel Probe (Senses product in freezing cylinder.)
- X50717 – Hopper (Senses temperature of mix in hopper with new Generation II.)
- X36267 – Cabinet Probe (Senses mix cabinet air temperature.)

Approximate probe resistance readings:

10,000 OHMS at room temperature (77°F/25°C).

30,035 OHMS at hopper/cabinet temperature (35°F/2°C).

48,636 OHMS at soft serve temperature (18°F/-7.7°C).

Viscosity Function:

In soft serve freezers the logic board monitors amp draw on the beater motor, which is directly related to the viscosity of the product in the freezing cylinder. When the amp draw reaches its set point, the unit cycles off. Therefore, the viscosity of the product will always be consistent even through its temperature may vary slightly.

To monitor amperage, L1 power supplied to the beater motor must pass through the power board beater terminals. The same softech controls are used in both single and three phase applications. For this reason the control must be set to operate in an amperage range which relates to the beater motor amperage and the desired product viscosity setting.

The selected amperage range simply determines the adjustment span of the viscosity adjustment potentiometer on the logic board. The jumper on the power board determines the amperage range selection. The jumper is placed on the pin which corresponds to the beater motor amperage when the desired product viscosity is attained. See page 28 to locate the range selection jumper.

Viscosity Control Range Selections:

2.4 PIN - 1.2 AMP to 2.4 AMP
5.0 PIN - 2.5 AMP to 5.0 AMP
8.0 PIN - 4.0 AMP to 8.0 AMP
11.2 PIN - 5.7 AMP to 11.2 AMP

Setting Viscosity Adjustment:

1. Place an amp probe on one of the L1 leads on the beater terminal on the power board.
2. Turn the viscosity adjustment screw to the “MAX” position.
3. With the freezer properly primed, actuate the refrigeration cycle (press “AUTO”).
4. During the freezing process, draw a sample and inspect the product appearance. When desired product viscosity and appearance is achieved, note the beater motor amperage.
5. Cancel the refrigeration cycle (press “AUTO”).
6. Using the chart, set what range the beater motor amperage falls into and place the jumper on the proper pin. (**Note**: See chart above for amperage range.)
7. Press “AUTO”. When amperage achieves the previously noted beater motor amperage, turn the viscosity adjustment screw counterclockwise **slowly** until the unit cycles off.
8. Draw several samples to verify that the amperage at cycle off and product quality remains consistent.

Mix Adjustment:

The mix setting is the temperature adjustment for the mix cabinet or the mix hopper.

Ideal mix temperature = 38°F (3.3°C) to 40°F (4.4°C).

Cut-out temperature will always be 13°F (7.2°C) (cabinet) / 4.5°F (2.5°C) (hopper) lower than the cut-in temperature. (See SB 2474.)

The range for cut-in temperature is “MIN” approximately 52°F (11.0°C) and “MAX” approximately 36°F (2.2°C).

Setting the Mix Cabinet Temperature:

1. Place a thermometer in the cabinet close to the thermistor probe.
2. Turn the mix adjustment screw all the way to “MAX”.
3. When the air temperature in the cabinet reaches 30°F to 31°F (-1.1°C), turn the mix adjustment screw counterclockwise until the mix refrigeration cycles off.
4. Allow the mix temperature to stabilize and adjust the setting if necessary.

Setting the Mix Hopper Temperature

1. To set the mix hopper temperature, fill the hopper at least half full with approximately 40°F (4.4°C) mix.
2. Install a suction pressure gauge at the EPR valve (evaporator pressure regulator) and verify the correct operating pressure. Adjust if necessary.
3. Set the “MIX” potentiometer to mid-range.
4. Allow the mix hopper refrigeration system to cycle until the mix temperature is stabilized. Adjust the setting if necessary.

Standby Adjustment

Maintains mix temperature in the freezing cylinder during long “no sale” periods to prevent over-beating of the product.

Ideal standby temperature = 30°F (1.1°C) to 35°F (1.7°C).

Cut-out temperature will always be 4°F (2°C) lower than the cut-in temperature.

The range for cut-in temperature is “MIN” approximately 44°F (6.6°C) and “MAX” approximately 30°F (-1.1°C).

Setting Standby Temperatures

1. With the unit properly primed with fresh mix, turn the STANDBY adjustment screw to the warmest position.
2. Press “STANDBY”.
3. When the main refrigeration system cycles off, draw a sample portion and check the product temperature.
4. To get the desired standby temperature, make a slight clockwise adjustment and wait until the main refrigeration cycles off.

Note: On pump units, “STANDBY” must be cancelled and “PUMP” must be pressed to replace the portion which was used for the sample draw.

Thermistor Curve

When checking a thermistor probe, first determine the present temperature at the probe and find it on this chart along with the approximate correct ohmmeter reading. The ohmmeter reading may vary from the correct one. Determine whether the difference is acceptable. If a probe is actually faulty, the difference will be great.

°F	°C	K OHM
-10	-23.3	118.201
-9	-22.7	114.394
-8	-22.2	110.709
-7	-21.6	107.143
-6	-21.1	103.692
-5	-20.5	100.352
-4	-20.0	97.120
-3	-19.4	94.085
-2	-18.8	91.144
-1	-18.3	88.296
0	-17.7	85.536
1	-17.2	82.863
2	-16.6	80.273
3	-16.1	77.765
4	-15.5	75.334
5	-15.0	72.980
6	-14.4	70.627
7	-13.8	68.350
8	-13.3	66.147
9	-12.7	64.014
10	-12.2	61.951
11	-11.6	59.953
12	-11.1	58.021
13	-10.5	56.150
14	-10.0	54.340
15	-9.4	52.854
16	-8.8	51.409
17	-8.3	50.003
18	-7.7	48.636
19	-7.2	47.306
20	-6.6	46.012
21	-6.1	44.754
22	-5.5	43.530

°F	°C	K OHM
23	-5.0	42.340
24	-4.4	41.136
25	-3.8	39.967
26	-3.3	38.830
27	-2.7	37.727
28	-2.2	36.654
29	-1.6	35.612
30	-1.1	34.599
31	-0.5	33.616
32	0	32.660
33	0.5	31.760
34	1.1	30.885
35	1.6	30.035
36	2.2	29.207
37	2.7	28.403
38	3.3	27.620
39	3.8	26.859
40	4.4	26.120
41	5.0	25.400
42	5.5	24.721
43	6.1	24.059
44	6.6	23.416
45	7.2	22.789
46	7.7	22.180
47	8.3	21.586
48	8.8	21.009
49	9.4	20.447
50	10.0	19.900
51	10.5	19.884
52	11.1	18.881
53	11.6	18.392
54	12.2	17.915
55	12.7	17.451

°F	°C	K OHM
56	13.3	16.998
57	13.8	16.557
58	14.4	16.128
59	15.0	15.710
60	15.5	15.315
61	16.1	14.929
62	16.6	14.554
63	17.2	14.187
64	17.7	13.830
65	18.3	13.482
66	18.8	13.143
67	19.4	12.812
68	20.0	12.490
69	20.5	12.185
70	21.1	11.888
71	21.6	11.598
72	22.2	11.315
73	22.7	11.039
74	23.3	10.769
75	23.8	10.507
76	24.4	10.250
77	25.0	10.000
78	25.5	9.763
79	26.1	9.532
80	26.6	9.306
81	27.2	9.085
82	27.7	8.870
83	28.3	8.659
84	28.8	8.454
85	29.4	8.254
86	30.0	8.058
87	30.5	7.872
88	31.1	7.691
89	31.6	7.513
90	32.2	7.340
91	32.7	7.171
92	33.3	7.006
93	33.8	6.884
94	34.4	6.686

°F	°C	K OHM
95	35.0	6.532
96	35.5	6.386
97	36.1	6.242
98	36.6	6.102
99	37.2	5.966
100	37.7	5.832
103	39.4	5.448
106	41.1	5.096
109	42.8	4.769
112	44.4	4.466
115	46.1	4.184
118	47.8	3.922
121	19.4	3.680
124	51.1	3.454
127	52.8	3.244
130	54.4	3.048
133	56.1	2.866
136	57.8	2.696
139	59.4	2.539
142	61.1	2.391
145	62.8	2.252
148	64.4	2.124
151	66.1	2.004
154	67.8	1.891
157	69.4	1.785
160	71.1	1.687
163	72.8	1.594
166	74.4	1.508
169	76.1	1.427
172	77.8	1.351
175	79.4	1.279
178	81.1	1.212
181	82.8	1.149
184	84.4	1.090
187	86.1	1.034
190	87.8	.982
193	89.4	.932
196	91.1	.886
199	92.8	.842

Service Tips for Generation II Boards

Initial Service Tips

1. Check all connections.
2. Check the cable to verify that it is secure.
3. Verify that all pins are securely fastened in their sockets.
4. Verify that all cables correctly face away from the boards. If the cable is attached incorrectly, damage to the logic board will occur. Air/mix pump and beater motor operation will be disabled.
5. Verify probe resistance.
6. Use the self-test program.

Self-Test Program

The Generation II controls are programmed for a self-test. The control can be used to help identify problems in the power board, the logic board, and the thermistor probes. The self-test program is not intended to, and will not take the place of a reasonable, and prudent service technician.

The self-test program is divided into two sections. The first section is an automatic function of the micro processor and the second section is performed by the technician.

The self-test program is initiated by holding down the MIX, WASH, AND PUMP keys on the logic panel while simultaneously turning on the power switch. Hold down the keys until all eight lights illuminate. If all eight lights do not illuminate, the control is defective. If the self-test cannot be initiated, the control is defective.

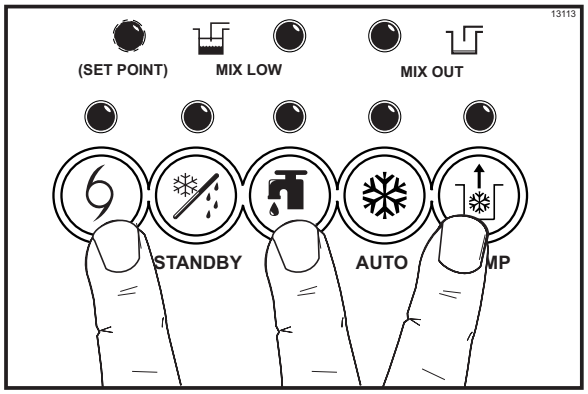


Figure 8

Each light corresponds with a particular relay. The light on the panel will not extinguish until the test is completed for that particular relay.

Logic Panel Light	Corresponding Relay
MIX LOW	Mix Relay
MIX OUT	Fan Relay
MIX REF	Pump Relay
STANDBY	Beater Motor Relay
WASH	Compressor Relay
AUTO	Spinner Relay
PUMP	Portion Relay

In each of the tests the relay on the power board will close and the component will operate for three seconds. There is a ten second delay between each check.

When the self-test is initiated, all eight lights will remain on for three seconds. At this time, the processor will begin to check the power board relays as follows:

1. The SET POINT light turns off.
2. Ten seconds after the SET POINT light turns off, the mix relay closes for three seconds.
3. The mix relay opens and the MIX LOW light turns off.
4. Ten seconds later, the fan relay closes.
5. Three seconds later, the fan relay opens and the MIX OUT light turns off.

6. Ten seconds later, the pump relay closes.
7. Three seconds later, the pump relay opens and the mix light turns off.
8. Ten seconds later, the beater motor relay closes.
9. Three seconds later, the beater motor relay opens and the STANDBY light turns off.
10. Ten seconds later, the compressor relay closes.
11. Three seconds later, the compressor relay opens and the wash light turns off.
12. All lights are off and a tone sounds for three seconds. This designates the end of the first section.

If all or most of the power board relays fail to close, the logic panel is defective. If only one relay fails to close, the power board is defective. This test can be used to determine if a problem exists with the logic panel, the power board, or elsewhere in the freezer. In other words, if during the test the beater relay closes on the power board, but the beater motor contactor does not operate, the problem occurs after the command reaches the power board.

Self-Test - Part II

When the first section of the self-test is complete, the control will advance to the starting point of the second section. The technician will have to complete this portion of the test. The first part of this section verifies the function of the control potentiometers (adjustment screw).

During this test, the MIX, STANDBY, WASH, AUTO, and PUMP lights function in direct relationship with the "MIN" and "MAX" adjustments of the potentiometer. In other words, when the adjustment screw is turned all the way to "MIN", the MIX light will be lit. When the adjustment is turned all the way to "MAX", the PUMP light will be lit. If the screw adjustment is made between the "MAX" and the "MIN" adjustment, one of the other lights will illuminate depending on the adjustment.

These lights create a bar graph which is directly related to the product temperature. "MIX" is warm and "PUMP" is cold.

1. The SET POINT light is lit, indicating that the control is reading the soft serve viscosity potentiometer.
2. Rotate the adjustment screw back and forth from "MIN" to "MAX". The bar graph should travel accordingly. This indicates that the potentiometer is functional.

   If the bar lights do not react, the logic panel is defective.

   Important: If the freezer's controls have been set previously, return the adjustment to its original position. For example, if the WASH light was lit before an adjustment screw was rotated, before going to the next step, rotate the adjustment screw until the WASH light is lit again.
3. Press the MIX key once.
4. The MIX LOW light is lit, indicating that the control is reading the MIX potentiometer.
5. Rotate the adjustment screw as in Step 2.
6. Press the MIX key once.
7. The MIX OUT light is on, indicating the control is reading the STANDBY potentiometer.
8. Rotate the adjustment screw as in Step 2.
9. Press the MIX key once.
10. The MIX LOW light is lit, indicating that the control is reading the "MIX 1" terminal.

11. The capability of this terminal to read the thermistor probe can be checked by the following method:
    a. Remove the thermistor probe wire from the “MIX 1” terminal.
    b. Connect the “MIX 1” terminal directly to ground (simulating a warm probe). The MIX light will illuminate.
    c. Remove the terminal connection from ground (simulating a cold probe). The PUMP light will illuminate.

    If the lights do not react, the panel is defective.

12. Press the MIX key once.

13. The MIX OUT light is lit, indicating that the control is now reading the BARREL (freezing cylinder) probe terminal.

14. Check the freezing cylinder probe (as in Step 13) by removing the wire from the panel.

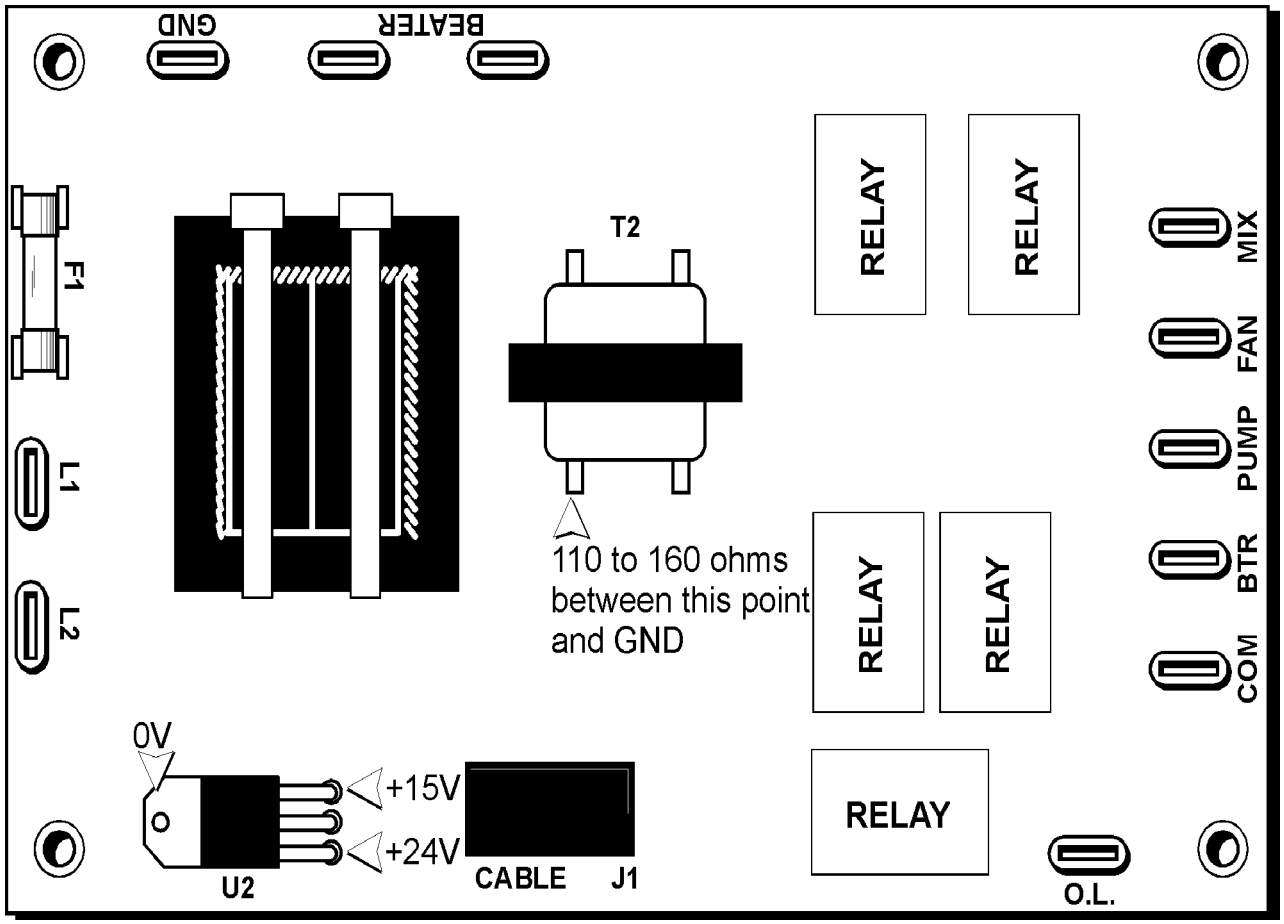
15. Press the MIX key again, and the self-test program is terminated.

Troubleshooting the Power Board

Use this troubleshooting guide before or immediately after the suspected assembly is removed from the equipment in order to determine if the power board is defective.

The Power Board can be identified by its fuse, several small relay boxes, and a label that identifies it as Taylor Part No. 032326-27. You will need a volt-ohmmeter to check the Power Board.

DANGER: Hazardous line voltage may be present on and around the power board while power is applied to the freezer! Failure to follow this instruction may result in electrocution.



Troubleshooting Guide

A. Check Power Board Before Removal

While the Power Board is still installed in the freezer, make the following four preliminary checks at the Power Board with power applied to the freezer:

1. Check the AC input by setting the meter to measure AC volts, applying power, and measure between terminals L1 and L2. The voltage should be 208 – 240 VAC, depending upon the line voltage to the freezer. If so, go to the next step. If not, the Power Board is not receiving line voltage and the problem is elsewhere (loose/bad power cord/wire, bad circuit breaker, etc.).

2. Check the fuse by measuring the AC voltage across Fuse 1. The voltage should be 0 volts. If so, go to the next step. If any voltage is read, fuse is blown, turn the power off and replace the fuse (051272 SLO BLO .063A-250V-5X20mm), reapply power, and recheck the voltage. If the new fuse blows, go to **Section B**.

3. Set the meter to measure DC volts, place the negative probe on the metal tab of U2 (the voltage regulator), and place the positive probe on the leg of U2 nearest the edge of the board. The voltage should be between 22.5 and 25.5 VDC. If so, go to the next step. If not, go to **Section B.**

4. Place the negative probe on the metal tab of U2, and place the positive probe on the leg of U2 nearest the transformer. The voltage should be between 14.5 and 15.5 VDC. If so, go to **Section C**. If not, go to **Section B**.

B. Check Power Board Immediately After Removal

If you have reached this step, the Power Board is probably defective. If one of the DC voltage checks brought you here, the Logic Panel could be loading down the Power Board. To find out:

1. Turn the power off and unplug the J1 cable connector from the Power Board.

2. Apply power and repeat steps 3 and 4 in the previous section. If the voltage measurements are acceptable, reconnect the connector and go to **Section C**. Otherwise, go to the next step.

3. Turn power off, remove the Power Board, and make the following checks:

4. Inspect the board for burnt components or debris around the relays or connector terminals. If the board smells burnt, or if you see evidence of burnt parts, replace the board. If the board is dirty, clean it and go the next step. (**Note:** If using a water base cleaner, make sure the board is dried thoroughly before using it.) **DO NOT IMMERSE THE BOARD IN WATER.** This could result in major component damage.

5. Set the meter to measure resistance and measure between terminals L1 and L2. The resistance should be between 400 and 700 ohms. If so, go the next step. If not, replace the board.

6. Measure between the beater terminals. The resistance should be between 0.3 ohms–0.6 ohms. If so, go to the next step. If not, replace the board. The beater current transformer is open.

7. Measure between the GND terminal and the pin of T2 nearest U2 (see drawing). The resistance should be from 110 to 160 ohms. If not, replace the board. If so, go to **Section C**.

C. Check Logic Board

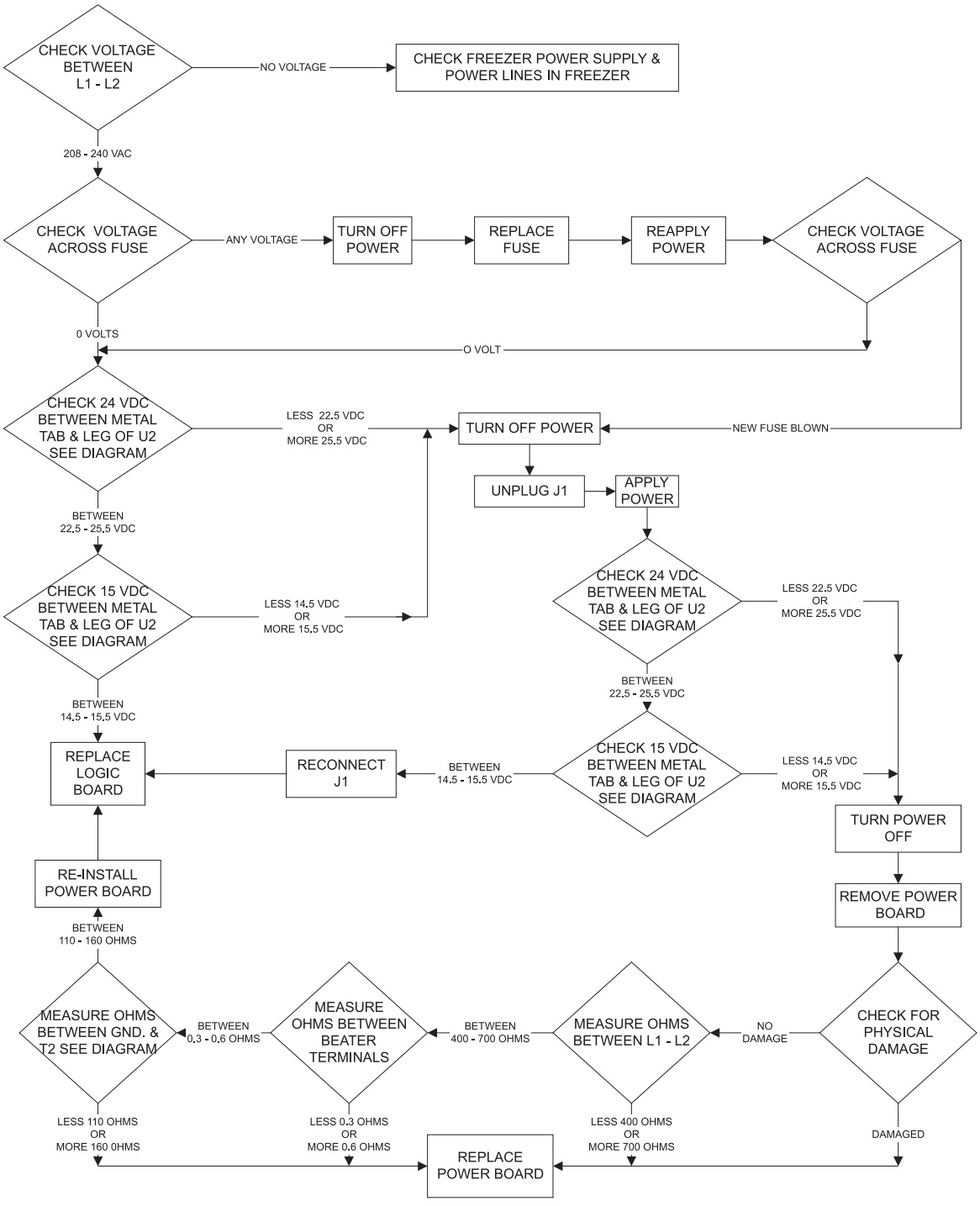
If you have gotten this far, the Power Board is not defective. Re–install it into the freezer and replace the Logic Board Assembly. The Logic Board Assembly consists of a metal panel with a printed circuit board, the red status LEDs and the operator buttons. The self test that can be performed on the Generation II Logic Board.

If the machine continues to fail, re–install the original Logic Board Assembly and continue to troubleshoot the freezer. Pay special attention to loose or defective connectors.

Note: Indicate any discrepancies of the part on the part return tag. Example: “No 24 volt,” etc.

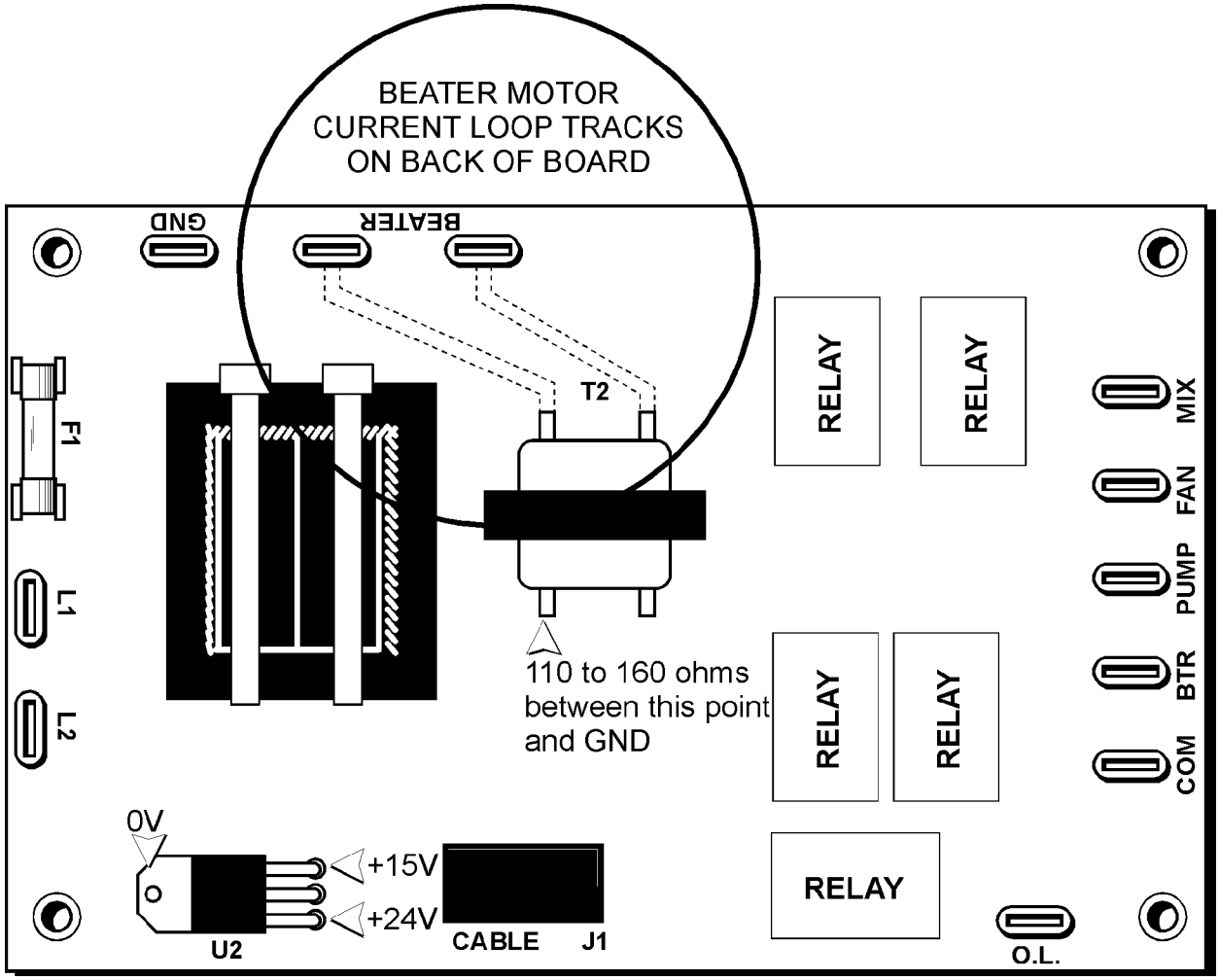
See the Power Board Troubleshooting Flowchart on the next page.

POWER BOARD TROUBLESHOOTING FLOWCHART



Unusual Failures of the X32326-SER Power Board

The fault of interest is the catastrophic failure of the tracks that form the current sensing loop for the beater motor. These are the traces that lead from the beater terminals to the current transformer. There were a number of cases where these tracks were blown off the circuit board. Dixson was made aware of this problem in October 1997. At that time they reported seeing this problem on 5 of the 7000 boards produced in 1997. The corrective action they took was to increase the size of the traces. This revision was made March 1998.

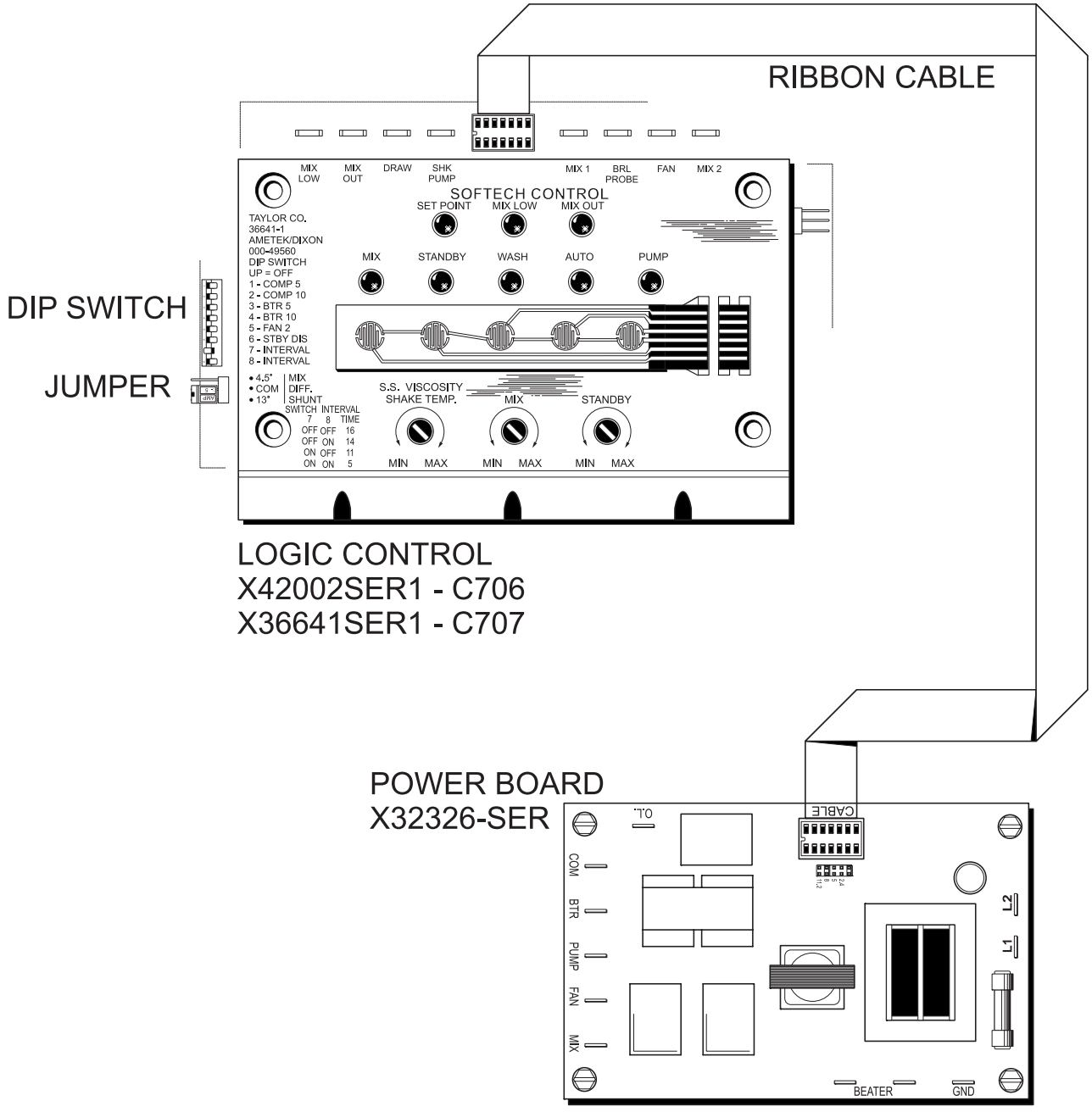


Based on their testing, Dixson has concluded that the most reasonable cause of this failure is either a line to line short or line to ground short. Under locked rotor conditions, the beater motor overload opened before the tracks failed.

Please be on the alert for this problem. If at all possible, get the date code of the defective board and any other pertinent information. The date code format is year, month, day. The date code is stamped on the Dixson label. In light of the cause of the defect, the service technician should be looking for a source of intermittent shorts to line or ground.

The three terminals labeled BEATER and GND are clearly marked on the power board, but if the GND wire is exchanged with the BEATER wires upon reinstallation when power is energized, it will blow the tracks off the board.

Control Overview



Mix Pump Operation

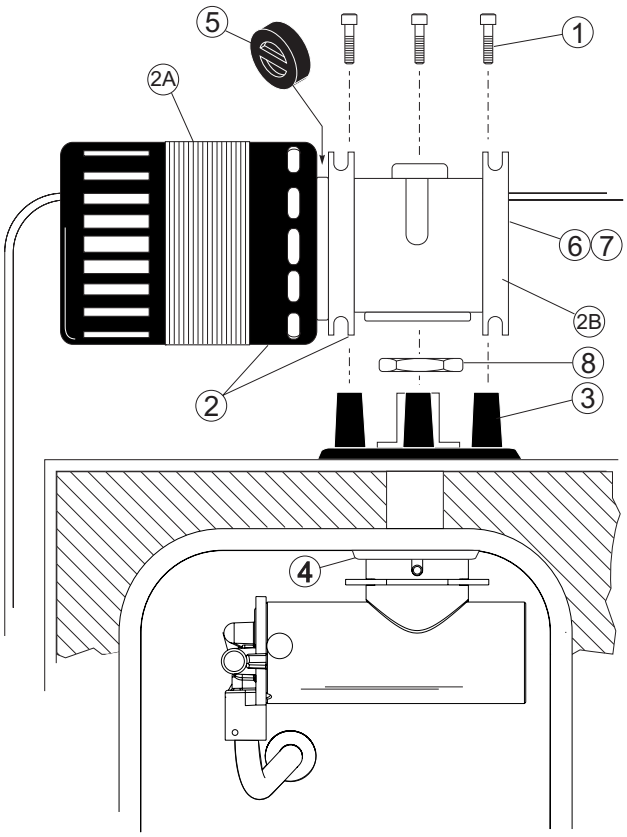
The pump operates under the following conditions:

Pump Key

When the PUMP key is pressed, the pump is active by itself or with the WASH mode of operation.

Mix Pump

The mix pump will be active for 30 seconds whenever the AUTO mode is entered. If a MIX OUT condition forces a side of the machine into the STANDBY mode of operation, the mix pump will not be active.



Mix Pump Draw Timer

During the AUTO mode, the mix pump will operate for 10 seconds after every draw of soft serve product.

ITEM	DESCRIPTION	PART NO.
1	SCREW-1/4-20 x 3/4	020128-2
2	MOTOR-REDUCER (50/60)	036955-34
2A	MOTOR	049246-34
2B	GEAR (50/60 HZ)	049247-34
3	MOUNT-MOTOR	036934
4	SLEEVE A.-MIX PUMP	X45012
5	COUPLING-MOTOR-FLEXIBLE	047936
6*	SEAL-INPUT	048836
7*	SEAL-OUTPUT	048837
8	NUT-PUMP SLEEVE	036933

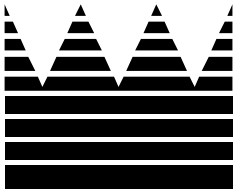
*NOT SHOWN

Optional Overrun Valve Caps

Change the valve cap if different overrun is required for local customers or mix formulations:

PART NUMBER	TARGET OVERRUN
056874-8	40%
056874-9	43%
056874-10	48%
056874-11	53%
056874-12	55%
056874-13	58%

Notes:



Section 3: Troubleshooting

- **General Troubleshooting**
- **Electrical Troubleshooting**

General Troubleshooting Guide

PROBLEM	PROBABLE CAUSE	REMEDY
1. 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 the ON position and press the AUTO key.
	Beater motor is out on reset.	Allow the beater motor to cool. Place the power switch to the OFF position. Press the reset button firmly. Place the power switch to the ON position 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 unit. Press the AUTO key to return to the AUTO mode.
	Air/mix pump is incorrectly assembled or improperly lubricated.	Follow assembly procedures carefully.
	Missing or incorrectly installed spring and poppet in air/mix pump.	Replace or correctly install the spring and poppet on the mix inlet fitting.
	The mix pump ball crank is broken.	Replace the component.
	The pump motor is not activated.	Push the reset button. The draw valve must be fully raised to activate the pump motor.
	Incorrect usage of the mix feed tube (gravity style freezers).	Follow the correct feed tube procedures and use of the air orifice.
2. The product is too thick.	Insufficient mix in the freezing cylinder.	Check the air/mix pump assembly. The mix inlet tube must be fully submerged in mix.
	Improper priming procedures.	Drain the freezing cylinder and re-prime the unit.
	The air/mix pump is incorrectly assembled.	Follow assembly procedures carefully.
	The viscosity control is set too cold.	Adjust the viscosity.

PROBLEM	PROBABLE CAUSE	REMEDY
3. The product is too soft.	The draw rate is set too fast.	Adjust the draw rate to 5 – 7-1/2 oz. (142 g. – 213 g.) of product by weight every 10 seconds.
	Outdrawing the capacity of the freezing cylinder.	The continuous draw rate is approximately 15 cones.
	There is inadequate air space around the unit.	Ensure unit has appropriate air clearance.
	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.	Adjust the viscosity.
	Incorrect usage of the mix feed tube (gravity style freezers).	Follow the correct feed tube procedures and use of the air orifice.
4. The mix in the hopper is too warm.	The hopper cover is not in position.	Clean the hopper cover and place it in position.
	The hopper temperature is out of adjustment.	Adjust the temperature control.
5. The mix in the hopper is too cold.	The hopper temperature is out of adjustment.	Adjust the temperature control.
6. Product is collecting on top of the freezer door.	The top o-ring on the draw valve is improperly lubricated or worn.	Lubricate properly or replace the o-ring.
7. Excessive mix leakage from the bottom of the door spout.	The bottom o-ring on the draw valve is improperly lubricated or worn.	Lubricate properly or replace the o-ring.
8. Excessive mix leakage into the long drip pan.	The seal on the drive shaft is improperly lubricated or worn.	Lubricate properly or replace the seal.
	The seal is installed inside-out on the drive shaft.	Install the seal correctly.
9. Excessive mix leakage from the rear of the freezer into the short drip pans.	Worn or missing o-rings on the 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.	Verify the refrigerant charge and check for a shorted freezing cylinder.
	Worn rear shell bearing.	Replace the component.
	Gear box out of alignment.	Re-align the gear box.
10. The drive shaft is stuck in the drive coupling.	Mix and lubricant have collected in the drive coupling.	Brush clean the rear shell bearing area regularly.
	Rounded corners of the drive shaft, the drive coupling or both.	Replace worn component(s).
	The gear box is out of alignment.	Re-align the gear box.

PROBLEM	PROBABLE CAUSE	REMEDY
11. Freezing cylinder walls are scored.	Missing or worn front bearing.	Install or replace the front bearing.
	Broken beater pins (pump style freezers, only).	Replace the beater assembly. When installing scraper blades, be sure they are properly attached over the pins.
	The beater assembly is bent.	The beater assembly must be replaced.
	The gear box is out of alignment.	Re-align the gear box.
12. The pump will not operate in the PUMP mode.	The pump motor is not activated.	Push the reset button.
	The membrane switch is defective.	Replace the switch.
13. The unit will not run when in the AUTO mode.	The unit is unplugged.	Plug into wall receptacle.
	The beater motor is out on reset.	Allow the beater motor to cool. Place the power switch to the OFF position. Press the reset button firmly. Place the power switch to the ON position, 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 unit. Press the AUTO key to return to the AUTO mode. **Note:** Do not use metal objects to press the reset button.
	The circuit breaker is off, or the fuse is blown.	Turn the breaker on, or replace the fuse.
	Low on mix. The MIX OUT light is on.	Add mix to the mix hopper and press the AUTO key.
	The water is turned off, on water cooled units.	Turn the water on.
14. Product is not feeding into the freezing cylinder.	The mix inlet hole is frozen up.	The hopper temperature needs adjustment.
	Incorrect usage of the mix feed tube (gravity style freezers).	Follow the correct feed tube procedures and use of the air orifice.
15. Product is “popping” when drawn.	The draw rate is set too fast.	The draw rate should be set at 5 - 7-1/2 oz. of product per 10 seconds.
	The pump is assembled incorrectly.	Assemble and lubricate according to instructions in the Operator’s manual.
16. The MIX LOW and MIX OUT probes are not functioning.	There is milkstone build-up in the hopper.	Clean the hoppers thoroughly.

Troubleshooting Pump Style Freezers

PROBLEM	PROBABLE CAUSE	REMEDY
1. The air/mix pump will not operate when the PUMP key is pressed.	The circuit breaker is off.	Check the breaker.
	The power cord is unplugged.	Plug in the power cord.
	The freezer is out on reset.	Reset the freezer.
	The pump motor is out on reset.	Press the PUMP key to cancel the pump operation. Press the reset button on the side of the pump motor reducer. Press the PUMP key to continue pump operation.
2. The air/mix pump will not operate when the draw valve is opened and the unit is in the AUTO mode.	The pump motor is out on reset.	Press the PUMP key to cancel the pump operation. Press the reset button on the side of the pump motor reducer. Press the PUMP key to continue pump operation.
	The pump motor relay is malfunctioning.	Replace the relay.
3. Excessive pump cylinder wear.	Inadequate or incorrect lubrication of pump cylinder.	Follow lubrication procedures carefully.
	Incorrect ball crank rotation. (Must be counterclockwise).	Reverse pump rotation.
4. Pitting occurring inside the pump cylinder.	Cleaner was left inside the pump cylinder.	After brush cleaning the pump cylinder, allow it to dry. Follow disassembly procedures carefully.
5. The ball crank of the motor reducer is broken.	Incorrect rotation of pump motor.	Reverse pump rotation.
6. Too much pressure is in the freezing cylinder.	Plugged relief hole in the feed tube assembly.	Clean.
7. Not enough pressure is in the freezing cylinder.	The draw switch is malfunctioning.	Replace the draw switch.

Electrical Troubleshooting

The following information provides a sequential list of electrical components that L-1 power travels through to initiate various operations.

Auto Mode of Operation:

L-1 power travels through the power switch, beater overload switch, the compressor high pressure cut-out switch, the overload terminal (OL) on the power board, the BTR terminal of the power board, and energizes the coil of the beater motor contactor.

L-1 power travels through the power switch, beater overload switch, the compressor high pressure cut-out switch, the overload terminal (OL) on the power board, the COM terminal of the power board, and energizes the coil of the compressor contactor.

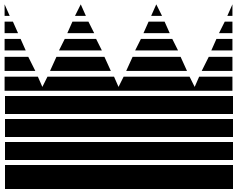
L-1 power travels through the power switch, beater overload switch, the compressor high pressure cut-out switch, the L-1 terminal of the power board, the MIX terminal of the power board, and energizes the hopper refrigeration compressor and condenser fan.

Wash Mode of Operation:

L-1 power travels through the power switch, beater overload switch, the compressor high pressure cut-out switch, the overload terminal (OL) on the power board, the BTR terminal of the power board, and energizes the coil of the beater motor contactor.

Pump Mode of Operation:

L-1 power travels through the power switch, beater overload switch, the compressor high pressure cut-out switch, the overload terminal (OL) on the power board, the PUMP terminal of the power board, and energizes the coil of the pump motor.



Section 4: Parts

- **Warranty Explanation**
- **Exploded Views**

Warranty Explanation

Class 103 Parts: The warranty for new equipment parts is one year from the original date of unit installation, with a replacement parts warranty of three months.

Class 212 Parts: The warranty for new equipment parts is two years from the original date of unit installation, with a replacement parts warranty of twelve months.

Class 512 Parts: The warranty for new equipment parts is five years from the original date of unit installation, with a replacement parts warranty of twelve months.

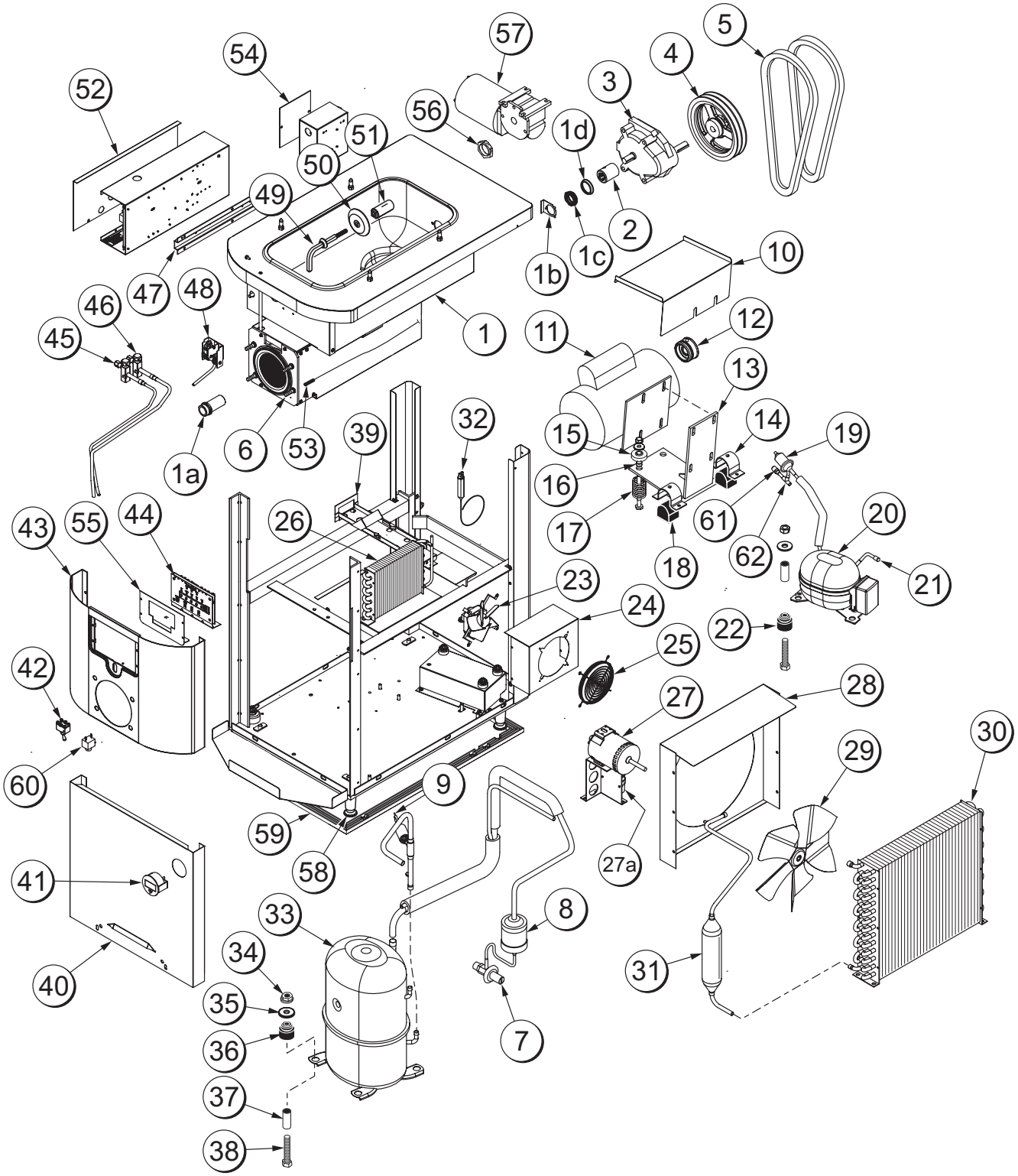
Class 000 Parts: Wear Items - no warranty.

CAUTION: Warranty is valid only if required service work is provided by an Authorized Taylor Service Technician.

NOTE: Taylor reserves the right to deny warranty claims on equipment or parts if a non-approved refrigerant was installed in the machine, system modifications were performed beyond factory recommendations, or it is determined that the failure was caused by neglect or abuse.

Notes:

Model C706 Exploded View

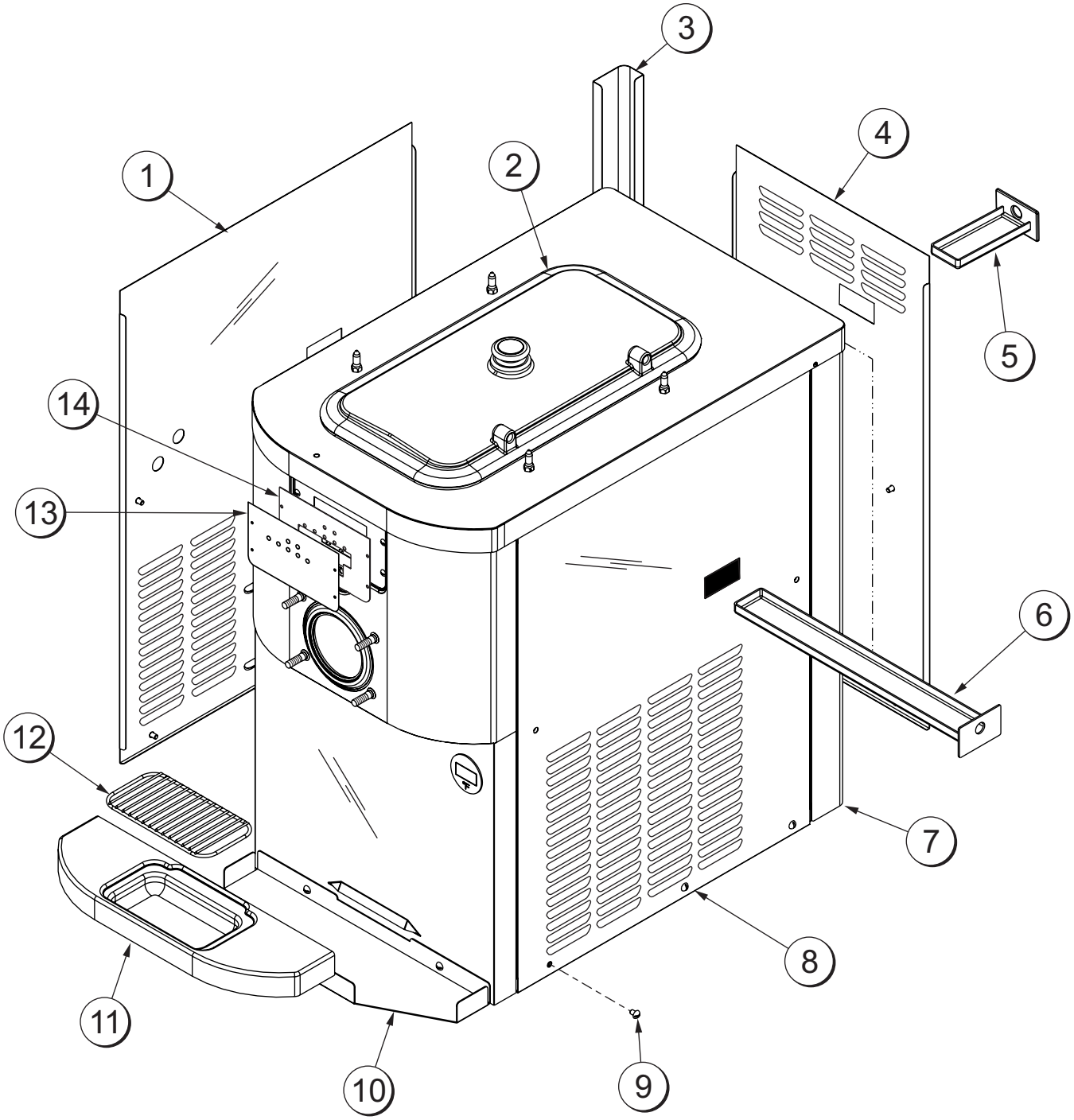


Model C706 Parts Identification

ITEM	DESCRIPTION	PART NO.
1	SHELL A.-INSULATED	X56054
1a	BEARING-REAR SHELL	031324
1b	WASHER-BEARING LOCK	012864
1c	NUT-BRASS BEARING	028991
1d	GUIDE-DRIP SEAL	028992
2	COUPLING-DRIVE 3/4 HEX	012721
3	GEAR A.*REDUCER 4.21:1	021286-SER
4	PULLEY-2AK74-5/8	027822
5	BELT-AX41	023876
6	STUD-NOSE CONE	055987
7	VALVE-EXP-AUTO-1/4S X1/4	046365
8	DRYER-FILTER-HP62-3/8 X 1/4	048901
9	SWITCH-PRESSURE 405 PSI	052663
10	SHIELD-BEATER MOTOR	051371
11	MOTOR-1.5 HP	021522-
12	PULLEY-2AK22 X .625-.6265	016403
13	HINGE A.-MOTOR	X25796
14	CLAMP-MOUNTING	012257
15	GROMMET-COMPRESSOR MT	039923
16	CAP-RUBBER MOUNT	011844
17	SPRING-COMP.970X.115X2.00	025707
18	BUSHING-MOUNTING	012258
19	VALVE-EPR 1/4	022665
20	COMPRESSOR PL35G	055187-27
21	VALVE-ACCESS 1/4MFL X 1/4	047016
22	KIT-MNTG-COMPRESSOR	047704
23	MOTOR-FAN 105CFM 3000	027309-27
24	SHROUD-DANFOSS	027386
25	GUARD-FAN	028534-1
26	CONDENSER-AC-7X6X1.25	027155
27	MOTOR-FAN	051744-27
27a	CAPACITOR-RUN 4UF-440V	051785
28	SHROUD-FAN-BLADE 12”	056050
29	FAN-5 BLADE 12”PUSH 32	047279
30	CONDENSER-AC-15LX14H	046558

ITEM	DESCRIPTION	PART NO.
31	RECEIVER A.-REFRIG.	X56063
32	DRYER-CAP. TUBE .021 ID X 9’	055522
33	COMPRESSOR AHA2490ZXD-AH556EF	047519-
34	NUT-5/16-18 MF LOCK	017327
35	WASHER-5/16-FLAT ZP STEEL	000651
36	GROMMET-COMPRESSOR MT	039923
37	SLEEVE-MOUNTING-COMP.	039924
38	SCREW-5/16-18X1-3/4 HEX	019691
39	GUIDE A.-DRIP PAN	X28863
40	PANEL-FRONT-LOWER	056061
41	THERMOMETER-DIGITAL	056239
42	SWITCH-TOGGLE-DPDT	024295
43	PANEL A.-FRONT-UPPER	X56595
44	BOARD-LOGIC-GEN 2.9	X42002SER1
45	LINE A.-DISCH-ACCESS	X56052
46	LINE A.-ACCESS-SUCTION	X56066
47	BRACKET-CONT.BX*751 SYR	034254
48	SWITCH A.-DRAW	X56147
49	PROBE A.-MIX *SQUARE*	X30922
50	DISC-PROBE *SQ HOLE*	030965
51	SPACER-PROBE *SQ HOLE*	030966
52	COVER-CONTROL BOX	056080
53	SWITCH-REED *DOOR	056249
54	COVER-SPLICE BOX	028224
55	PLATE-DEC	057034
56	NUT-PUMP SLEEVE	036933
57	MOTOR-REDUCER 32 RPM	036955-34
58	LEG-4” 3/8-16 STUD (WATER COOLED ONLY)	036397
59	GASKET-BASE PAN (AIR COOLED ONLY)	056058
60	JACK A.-FLAVORBURST	X56353
61	ACCESS VALVE 1/4 FL	044404
62	TEE-1/4S COPPER	003949

Model C706 Panel Identification

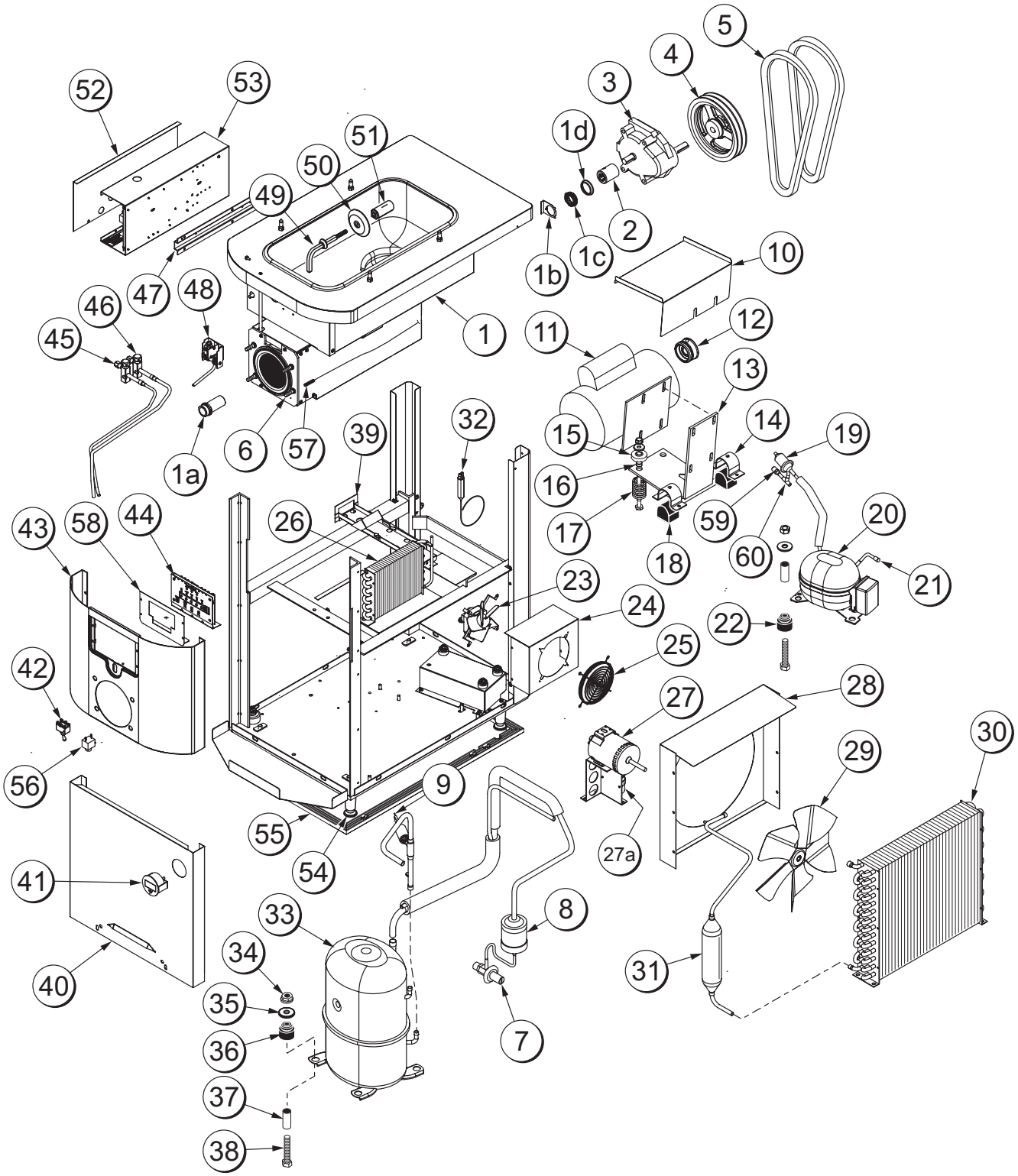


Model C706 Panel Identification

ITEM	DESCRIPTION	PART NO.
1	PANEL-SIDE-LEFT	056082
2	COVER-HOPPER	053809
3	TRIM-CORNER-REAR-LEFT	056964
4	PANEL-REAR	056077
5	PAN A.-DRIP 5 1/2” LONG	X56074
6	PAN-DRIP 11-5/8 LONG	027503
7	TRIM-CORNER-REAR-RIGHT	056965

ITEM	DESCRIPTION	PART NO.
8	PANEL-SIDE-RIGHT	056242
9	SCREW-1/4-20X3/8 RHM-STNLS	011694
10	SHELF-TRAY-DRIP	056076
11	TRAY-DRIP	056858
12	SHIELD-SPLASH	049203
13	DECAL-DEC-TAYLOR	057311
14	PLATE-DEC	057034

Model C707 Exploded View

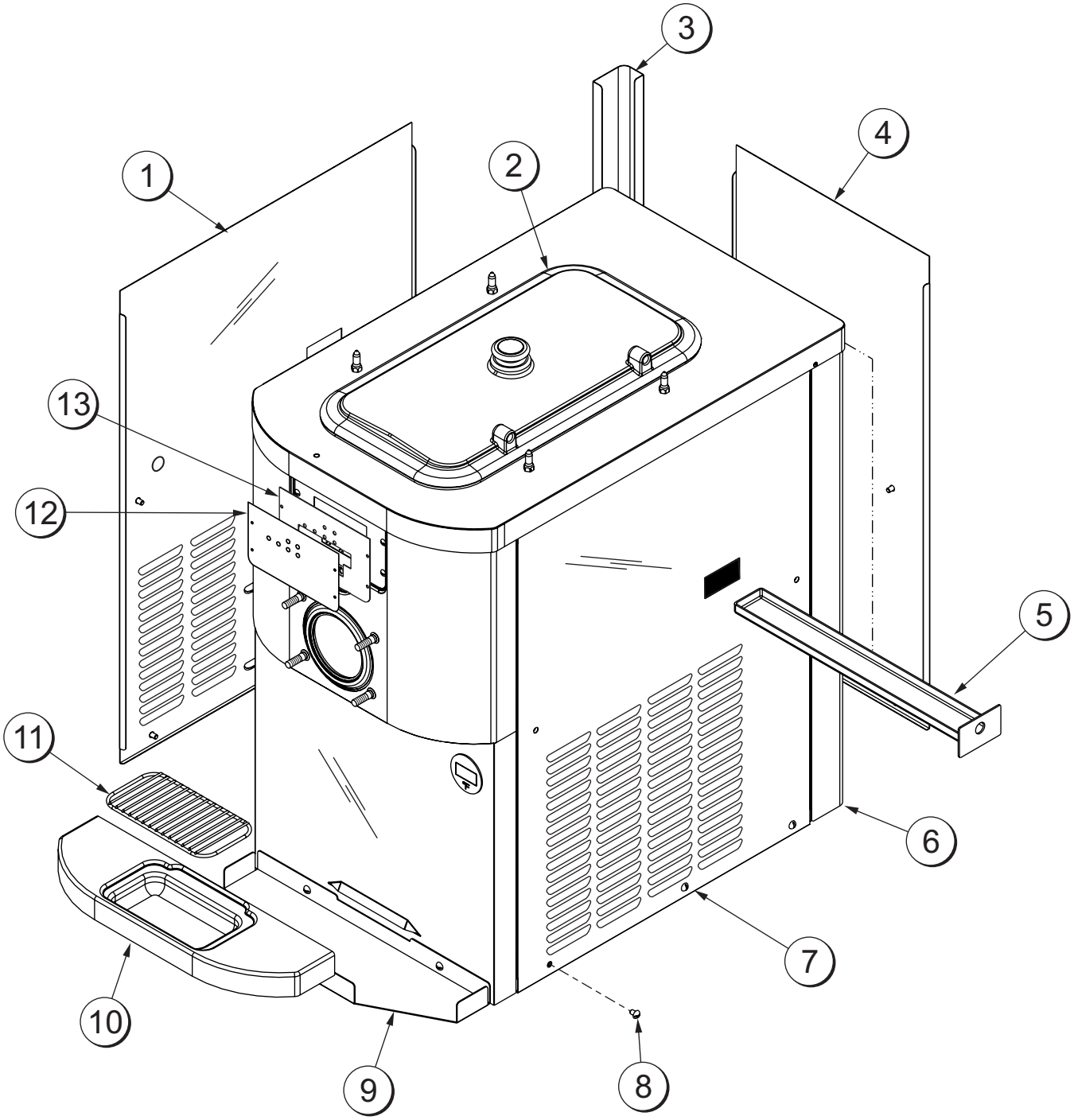


Model C707 Parts Identification

ITEM	DESCRIPTION	PART NO.
1	SHELL A.-INSULATED	X56665
1a	BEARING-REAR SHELL	031324
1b	WASHER-BEARING LOCK	012864
1c	NUT-BRASS BEARING	028991
1d	GUIDE-DRIP SEAL	028992
2	COUPLING-DRIVE 3/4 HEX	012721
3	GEAR A.*REDUCER 4.21:1	021286-SER
4	PULLEY-2AK74-5/8	027822
5	BELT-AX41	023876
6	STUD-NOSE CONE	055987
7	VALVE-EXP-AUTO-1/4S X1/4	046365
8	DRYER-FILTER-HP62-3/8	048901
9	SWITCH-PRESSURE 405 PSI	052663
10	SHIELD-BEATER MOTOR	051371
11	MOTOR-1.5 HP	021522-
12	PULLEY-2AK22 X .625-.6265	016403
13	HINGE A.-MOTOR	X25796
14	CLAMP-MOUNTING	012257
15	GROMMET-COMP. MT	039923
16	CAP-RUBBER MOUNT	011844
17	SPRING-COMP.970X.115X2.00	025707
18	BUSHING-MOUNTING RBR	012258
19	VALVE-EPR 1/4	022665
20	COMPRESSOR PL35G	055187-27
21	VALVE-ACCESS 1/4MFL X 1/4	047016
22	KIT-MOUNTING-COMPRESSR	047704
23	MOTOR-FAN 105CFM 3000	027309-27
24	SHROUD-DANFOSS	027386
25	GUARD-FAN	028534-1
26	CONDENSER-AC-7X6X1.25	027155
27	MOTOR-FAN	051744-27
27a	CAPACITOR-RUN 4UF-440V	051785
28	SHROUD-FAN-BLADE 12”	056050
29	FAN-5 BLADE 12”PUSH 32°	047279

ITEM	DESCRIPTION	PART NO.
30	CONDENSER-AC-15LX14H	046558
31	RECEIVER A.-REFRIG.	X56063
32	DRYER-CAP. TUBE .021 ID	055522
33	COMPRESSOR AHA2490ZXD-AH556EF	047519-
34	NUT-5/16-18 MF LOCK	017327
35	WASHER-5/16-FLAT ZP	000651
36	GROMMET-COMPRESSOR	039923
37	SLEEVE-MOUNTING-COMP.	039924
38	SCREW-5/16-18X1-3/4 HEX	019691
39	GUIDE A.-DRIP PAN	X28863
40	PANEL-FRONT-LOWER	056061
41	THERMOMETER-DIGITAL	056239
42	SWITCH-TOGGLE-DPDT	024295
43	PANEL A.-FRONT-UPPER	X56595
44	BOARD-LOGIC-GEN 2.6	X36641SER1
45	LINE A.-DISCH-ACCESS	X56052
46	LINE A.-ACCESS-SUCTION	X56066
47	BRACKET-CONT.BX*751 SYR	034254
48	SWITCH A.-DRAW	X56147
49	PROBE A.-MIX *SQUARE*	X30922
50	DISC-PROBE *SQ HOLE*	030965
51	SPACER-PROBE *SQ HOLE*	030966
52	COVER-CONTROL BOX	056080
53	CONTROL A.	X57863-XX
54	LEG-4” 3/8-16 STUD (WATER COOLED ONLY)	036397
55	GASKET-BASE PAN (AIR COOLED ONLY)	056058
56	JACK A.-FLAVORBURST	X56353
57	SWITCH-REED	056249
58	PLATE A.-DEC	X56081
59	VALVE-ACCESS 1/4FL X 1/4	044404
60	TEE-1/4S COPPER	003949

Model C707 Panel Identification

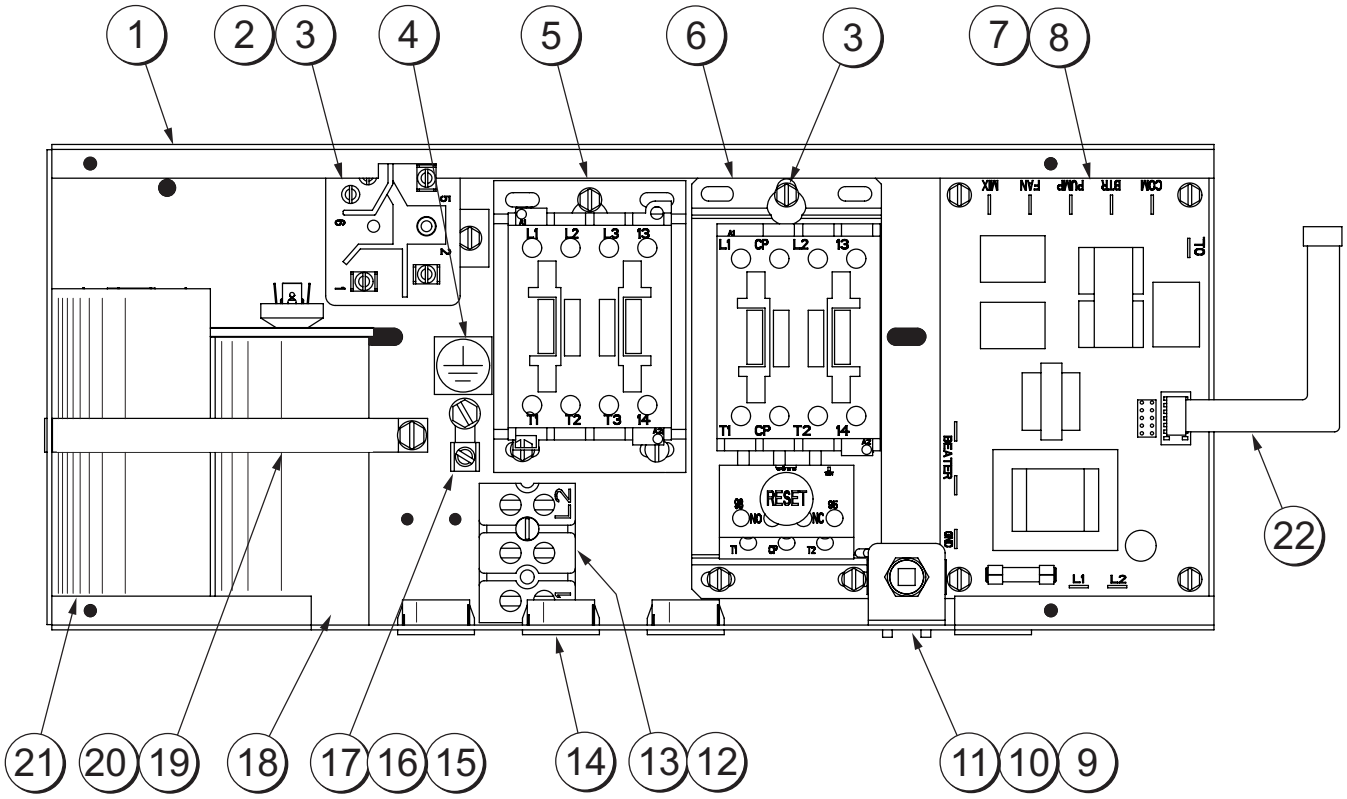


Model C707 Panel Identification

ITEM	DESCRIPTION	PART NO.
1	PANEL-SIDE-LEFT	056082-SP1
2	COVER-HOPPER	053809
3	TRIM-CORNER-REAR-LEFT	056964
4	PANEL-REAR	056077-SP1
5	PAN-DRIP 11-5/8 LONG	027503
6	TRIM-CORNER-REAR-RIGHT	056965
7	PANEL-SIDE-RIGHT	056242

ITEM	DESCRIPTION	PART NO.
8	SCREW-1/4-20X3/8 RHM	011694
9	SHELF-TRAY-DRIP	056076
10	TRAY-DRIP	056858
11	SHIELD-SPLASH	049203
12	DECAL-DEC-TAYLOR C707	057312
13	PLATE-DEC	057034

Control A. - X56051- (Model C706)

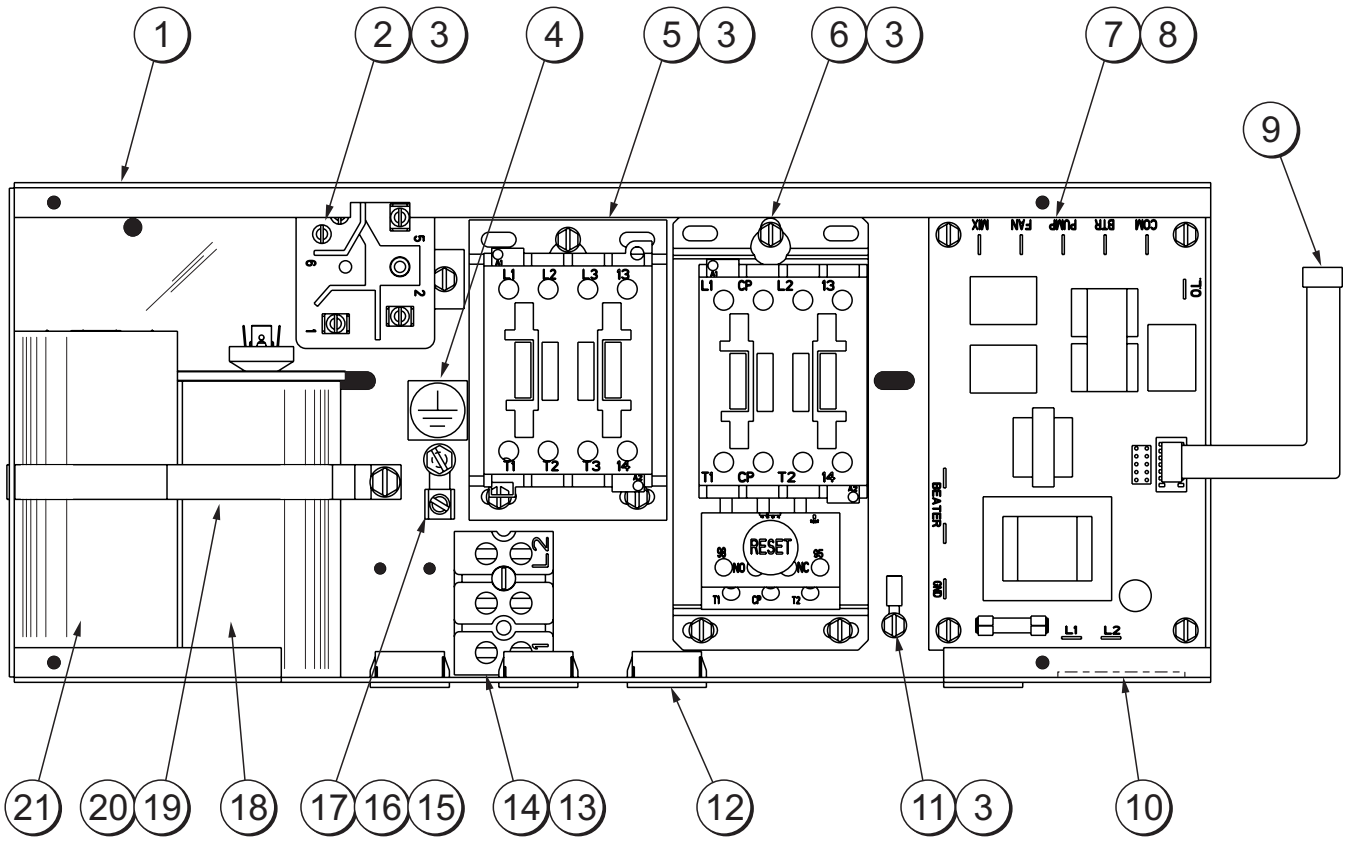


ITEM	DESCRIPTION	PART NO.
1	BOX-CONTROL	056255
2	RELAY-START-COMPRESSR	See Parts List
3	SCREW-8 X 1/4 SL HEX HD	009894
4	LABEL-GROUNDING SYMBOL	017669
5	RELAY-3 POLE-20A-208/240	012725-33
6	STARTER-1 PHASE-4.5 - 7A	See Parts List
7	SCREW-6-32 X 5/8 TAPTITE	041363
8	BOARD-POWER GEN 1 & 2	X32326-SER
9	NUT-OVERLOAD RESET	045026
10	BRACKET-PUMP OVERLOAD	044465
11	OVERLOAD-TI #2BM-20V9R	044464
12	SCREW-8X1-1/4 RD HD TYP B	039420

ITEM	DESCRIPTION	PART NO.
13	BLOCK-TERMINAL 2P-L1,L2	See Parts List
14	BUSHING-SNAP11/16 ID X 7/8	010548
15	LUG-GROUNDING 260	020928
16	SCREW-10-32 X 1/2 MF HEX	020982
17	NUT-10-32 MF LOCK	020983
18	CAPACITOR-RUN-35UF/440V	See Parts List
19	SCREW-10X3/8TYPEB-HWH	015582
20	STRAP-CAPACITOR 7-11/32	037890
21	CAPACITOR-START-130-156	See Parts List
22	CABLE-RIBBON-PWR/RELAY	056295
*	LABEL-COPPER COND ONLY	025948

*NOT SHOWN

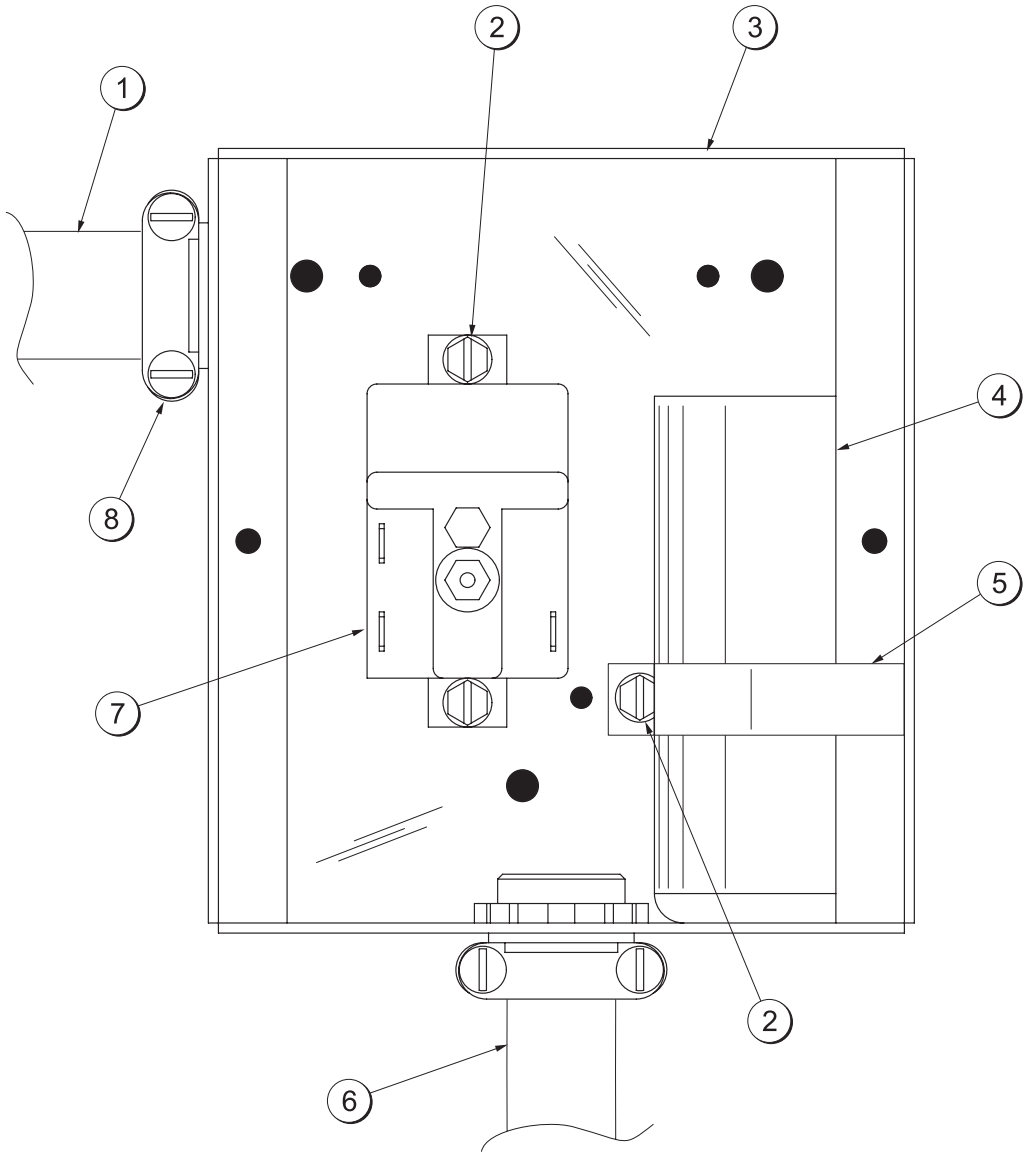
Control A. – X57863– (Model C707)



ITEM	DESCRIPTION	PART NO.
1	BOX-CONTROL	056255
2	RELAY-START-COMPRESSR	See Parts List
3	SCREW-8 X 1/4 SL HEX HD	009894
4	LABEL-GROUNDING SYMBOL	017669
5	RELAY-3 POLE-20A-208/240	012725-33
6	STARTER-1 PHASE-4.5 - 7A	See Parts List
7	SCREW-6-32 X 5/8 TAPTITE	041363
8	BOARD-POWER GEN 1 & 2	X32326-SER
9	CABLE-RIBBON-PWR/RELAY	056295
10	LABEL-COPPER COND ONLY	025948
11	TERMINAL–RING	090706

ITEM	DESCRIPTION	PART NO.
12	BUSHING-SNAP11/16 ID X 7/8	010548
13	SCREW-8X1-1/4 RD HD TYP B	039420
14	BLOCK-TERMINAL 2P-L1,L2	See Parts List
15	LUG-GROUNDING 260	020928
16	SCREW-10-32 X 1/2 MF HEX	020982
17	NUT-10-32 MF LOCK	020983
18	CAPACITOR-RUN-35UF/440V	See Parts List
19	SCREW-10X3/8TYPEB-HWH	015582
20	STRAP-CAPACITOR 7-11/32	037890
21	CAPACITOR-START-130-156	See Parts List

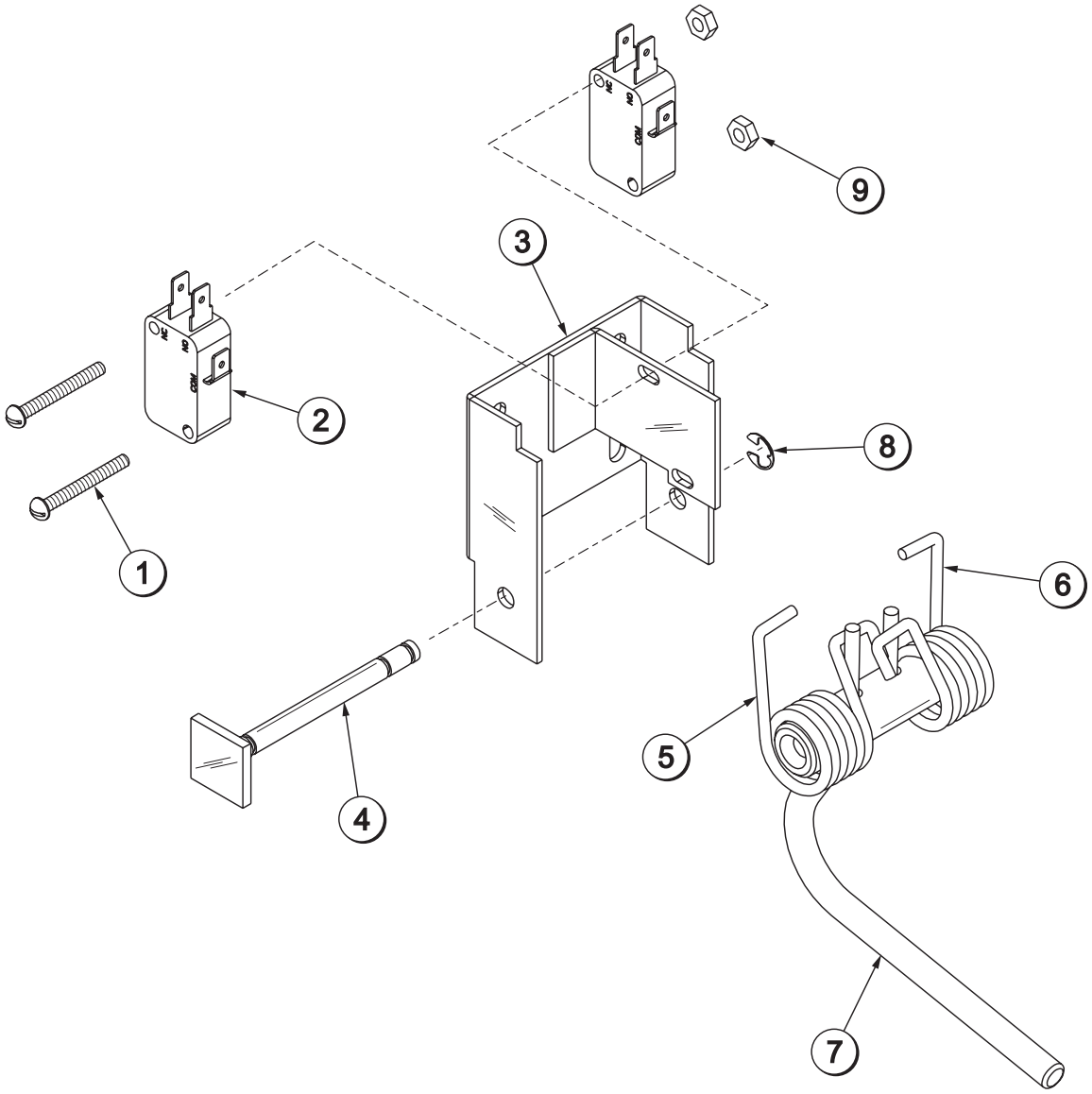
Box A.-Cap & Relay - X42128- (Model C706)



ITEM	DESCRIPTION	PART NO.
1	SLEEVE-WIRE 7/16 ID	020919-22
2	SCREW-8X1/4 SL HEX HD	009894
3	BOX-CAP&RELAY-PUMP	042035
4	CAPACITOR-START- 47-56UF	037251-34

ITEM	DESCRIPTION	PART NO.
5	STRAP-CAPACITOR 3-1/16 IN.	036953
6	SLEEVE-WIRE .294 ID	020917-50
7	RELAY-MTR START	039725-27
8	CONNECTOR-BX 3/8 STR	014569

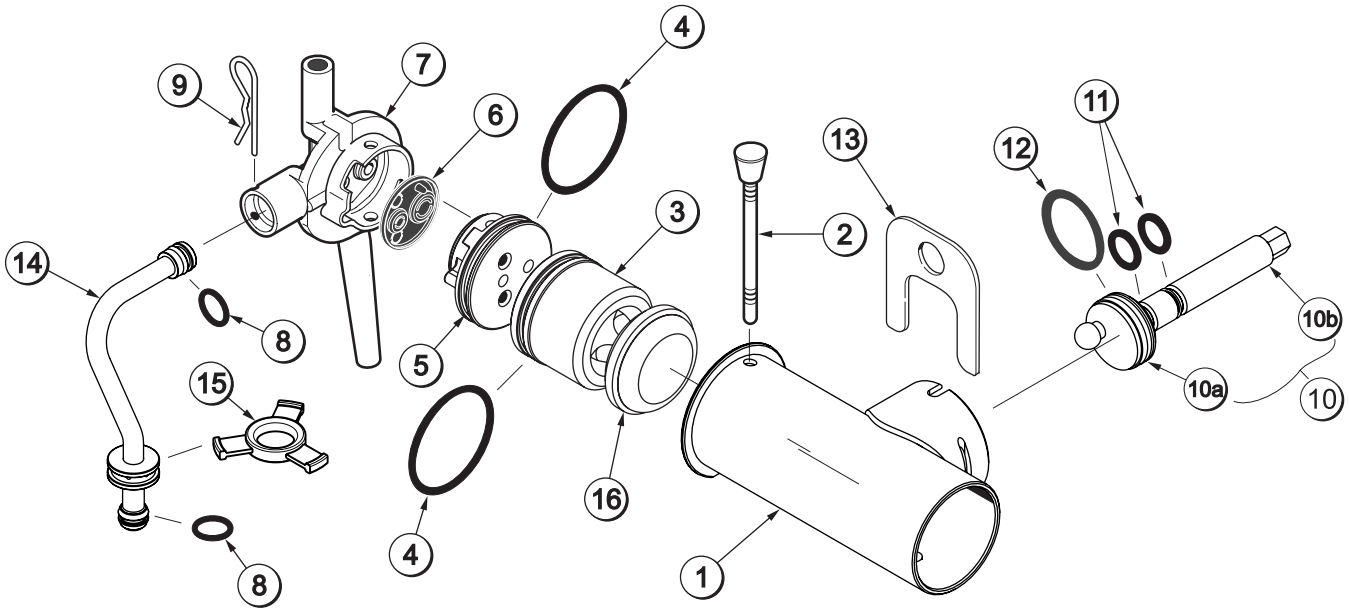
Switch A.-Draw - X56147



ITEM	DESCRIPTION	PART NO.
1	SCREW-4-40X1 RD HD STEEL	028890
2	SWITCH-LEVER-SPDT-10A-125	028889
3	BRACKET A.-SWITCH	X56254
4	PIN-PIVOT	015478
5	SPRING-RETURN-RIGHT	041661

ITEM	DESCRIPTION	PART NO.
6	SPRING-RETURN-LEFT-	041660
7	ARM A.-DRAW	X56253
8	E-RING 3/16 .335 O.D.	049178
9	NUT-4-40 HEX -PLATED	038623

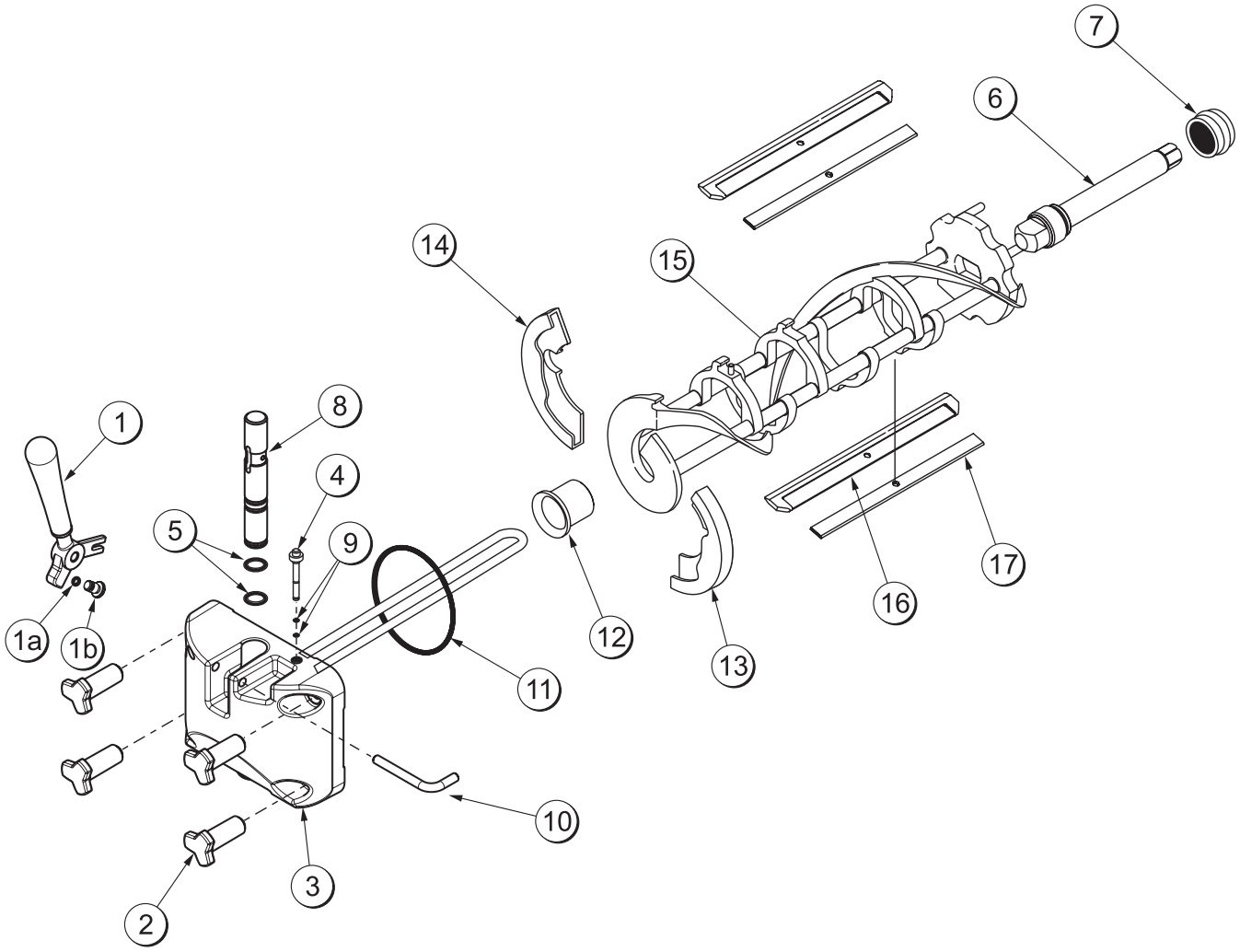
Pump A. – Mix Simplified – X57029-XX (Model C706)



ITEM	DESCRIPTION	PART NO.
1 - 7	**PUMP ASSEMBLY - MIX SIMPLIFIED SOFT SERVE**	**X57029-XX**
1	CYLINDER A.-PUMP-HOPPER-SOFT SERVE	X57025
2	PIN A.-COAX PUMP	X55450
3	PISTON	053526
4	O-RING 2-1/8” OD - RED	020051
5	CAP-VALVE	056874-XX
6	GASKET - SIMPLIFIED PUMP VALVE	053527
7	ADAPTOR - MIX INLET	054825
8	O-RING - 11/16 OD - RED	016132

ITEM	DESCRIPTION	PART NO.
9	PIN - COTTER	044731
10	SHAFT A.-DRIVE-MIX PUMP-HOPPER	X39084
10a	CRANK-DRIVE	039235
10b	SHAFT-DRIVE	039106
11	O-RING - DRIVE SHAFT	048632
12	O-RING 1-3/4	008904
13	CLIP-MIX PUMP RETAINER	044641
14	TUBE A.-FEED HOPPER SOFT SERVE	X56521
15	RING-CHECK .120 OD	056524
16	CAP-VALVE BODY -SOFT SRV	056874-12

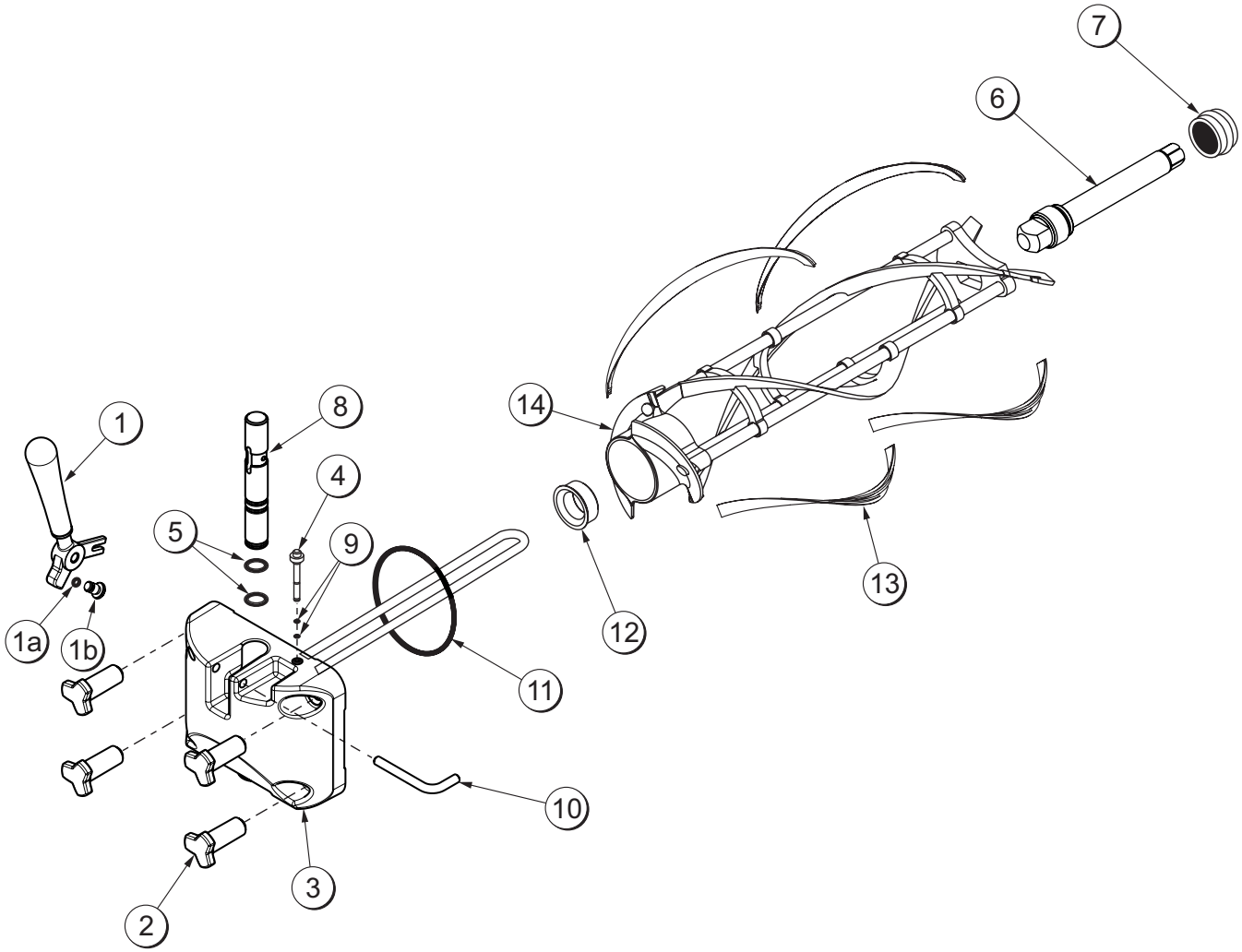
Door and Beater Assembly (Model C706)



ITEM	DESCRIPTION	PART NO.
1	HANDLE A.-DRAW-WELDED	X56246
1a	O-RING-1/4 OD X .070W 50	015872
1b	SCREW-ADJUSTMENT-5/16-24	056332
2	NUT-STUD	034383
3	DOOR A.-W/BAFFLE	X56747-1
4	PLUG-PRIME	028805
5	O-RING-7/8 OD X .103W	014402
6	SHAFT-BEATER	056078
7	SEAL-DRIVE SHAFT	032560
8	VALVE A.-DRAW	X56072

ITEM	DESCRIPTION	PART NO.
9	O-RING-3/8 OD X .070W	016137
10	PIN-HANDLE-SS	055819
11	GASKET-DOOR HT 4” DBL	048926
12	BEARING-FRONT-SHOE	050348
13	SHOE-FRONT·HELIX·*REAR*	050346
14	SHOE-FRONT HELIX *FRONT*	050347
15	BEATER A.-3.4QT-1 PIN	X46231
16	CLIP-SCRAPER BLADE*7.00“	046236
17	BLADE-SCRAPER-PLAS 8-1/8L	046235

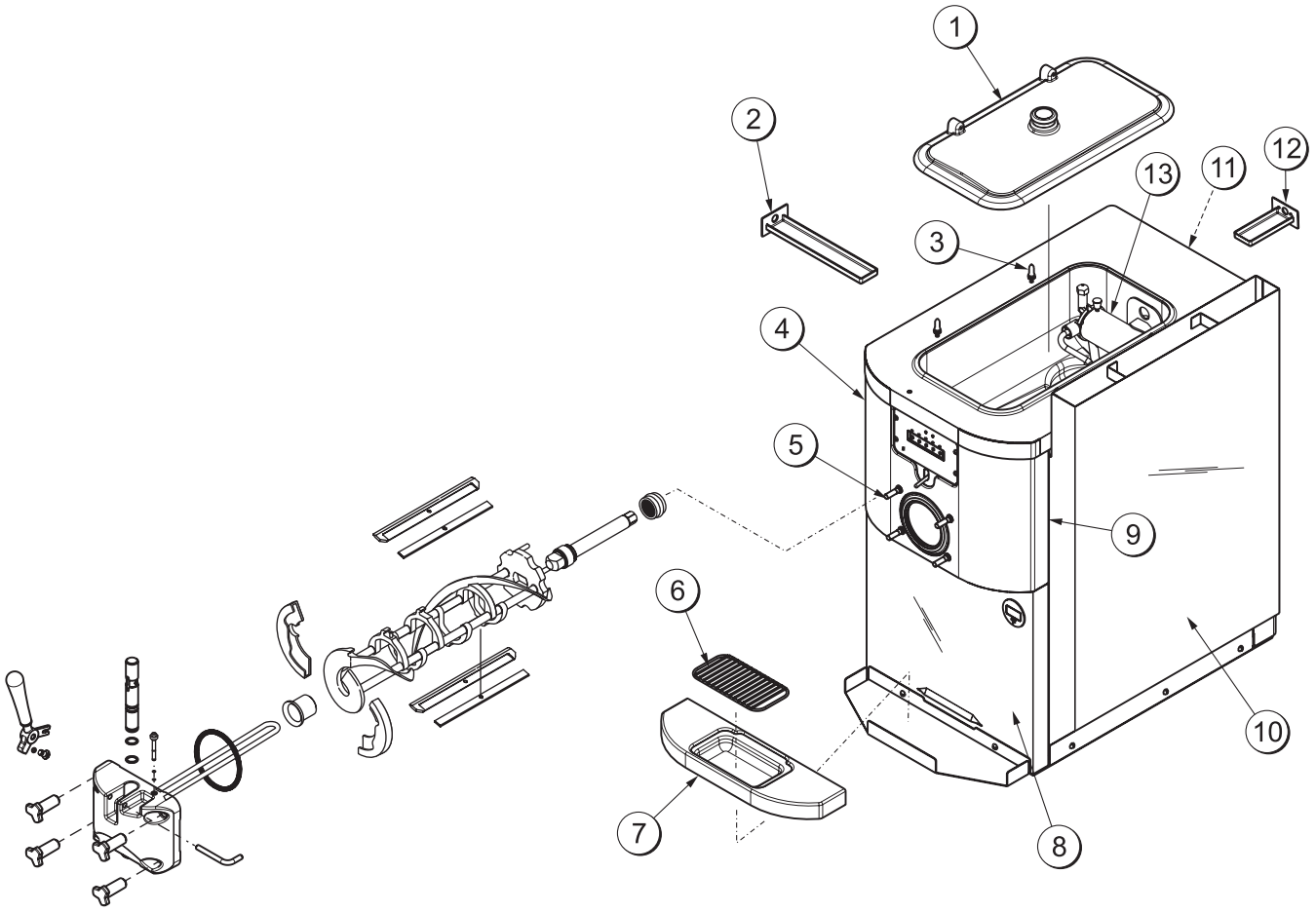
Door and Beater Assembly (Model C707)



ITEM	DESCRIPTION	PART NO.
1	HANDLE A.-DRAW-WELDED	X56246
1a	O-RING-1/4 OD X .070W 50	015872
1b	SCREW-ADJUSTMENT-5/16-24	056332
2	NUT-STUD	034383
3	DOOR A.-W/BAFFLE	X56747-1
4	PLUG-PRIME	028805
5	O-RING-7/8 OD X .103W	014402
6	SHAFT-BEATER	056078

ITEM	DESCRIPTION	PART NO.
7	SEAL-DRIVE SHAFT	032560
8	VALVE A.-DRAW	X56072
9	O-RING-3/8 OD X .070W	016137
10	PIN-HANDLE-SS	055819
11	GASKET-DOOR HT 4” DBL	048926
12	BEARING-FRONT	050216
13	BLADE-SCRAPER-PLASTIC	035174
14	BEATER A.-3.4QT-HELICORE	X31761

C706 Operator Parts

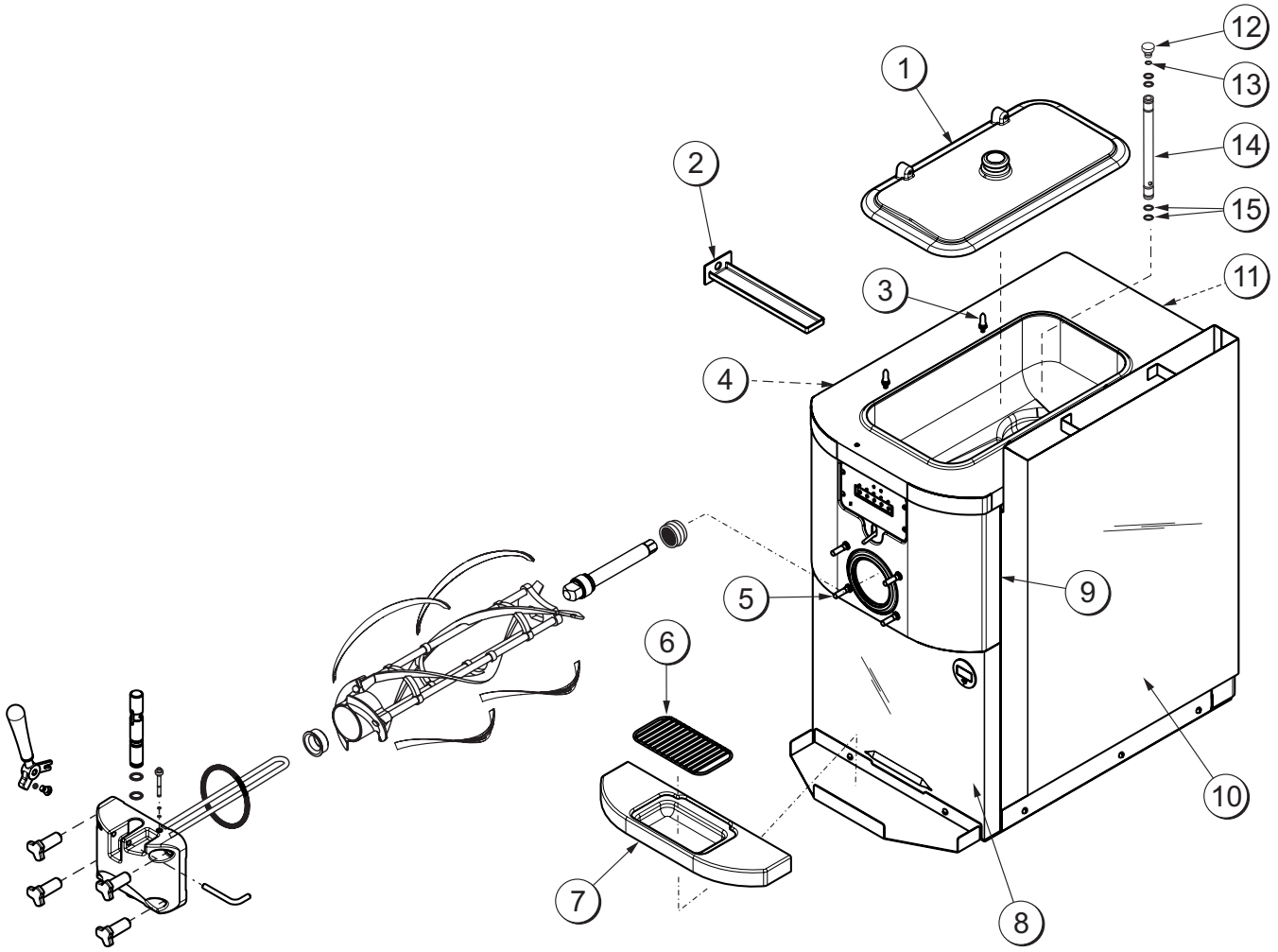


ITEM	DESCRIPTION	PART NO.
1	COVER-HOPPER COMPLETE	053809
2	PAN-DRIP 11-5/8 LONG	027503
3	PIN-RETAINING-HOPPER CVR	043934
4	PANEL-SIDE-LEFT	056082
5	STUD-NOSE CONE	055987
6	SHIELD-SPLASH	049203
7	TRAY-DRIP	056858

ITEM	DESCRIPTION	PART NO.
8	PANEL-FRONT-LOWER	056061
9	PANEL A.-FRONT-UPPER	X56595
*10	PANEL A.-SIDE RIGHT	X56083
11	PANEL-REAR	056077
12	PAN-DRIP-PUMP	X56074
13	PUMP A.-MIX SIMPLIFIED S.S.	X57029-XX

*SHOWN WITH DUCT (TOP AIR DISCHARGE)

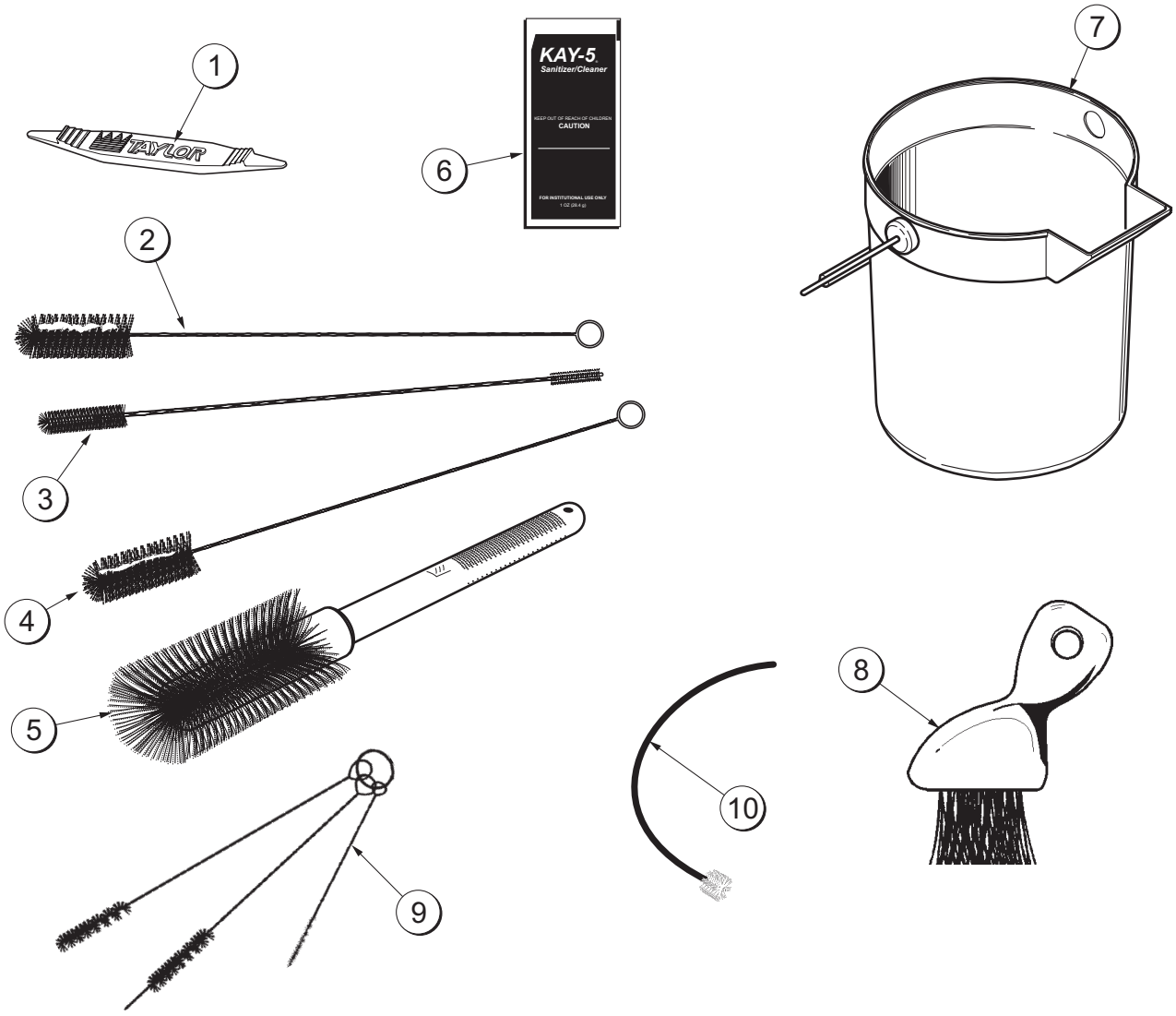
C707 Operator Parts



ITEM	DESCRIPTION	PART NO.
1	COVER-HOPPER COMPLETE	053809
2	PAN-DRIP 11-5/8 LONG	027503
3	PIN-RETAINING-HOPPER CVR	043934
4	PANEL-SIDE-LEFT	056082-SP1
5	STUD-NOSE CONE	055987
6	SHIELD-SPLASH	049203
7	TRAY-DRIP	056858
8	PANEL-FRONT-LOWER	056061

ITEM	DESCRIPTION	PART NO.
9	PANEL A.-FRONT	X56595
10	PANEL A.-SIDE-RIGHT	X56083
11	PANEL-REAR	056077-SP1
12	ORIFICE	022465-100
13	O-RING-3/8 OD X .070 W	016137
14	TUBE A.-FEED	X29429-2
15	O-RING-.643 OD X .077 W	018572

Accessories

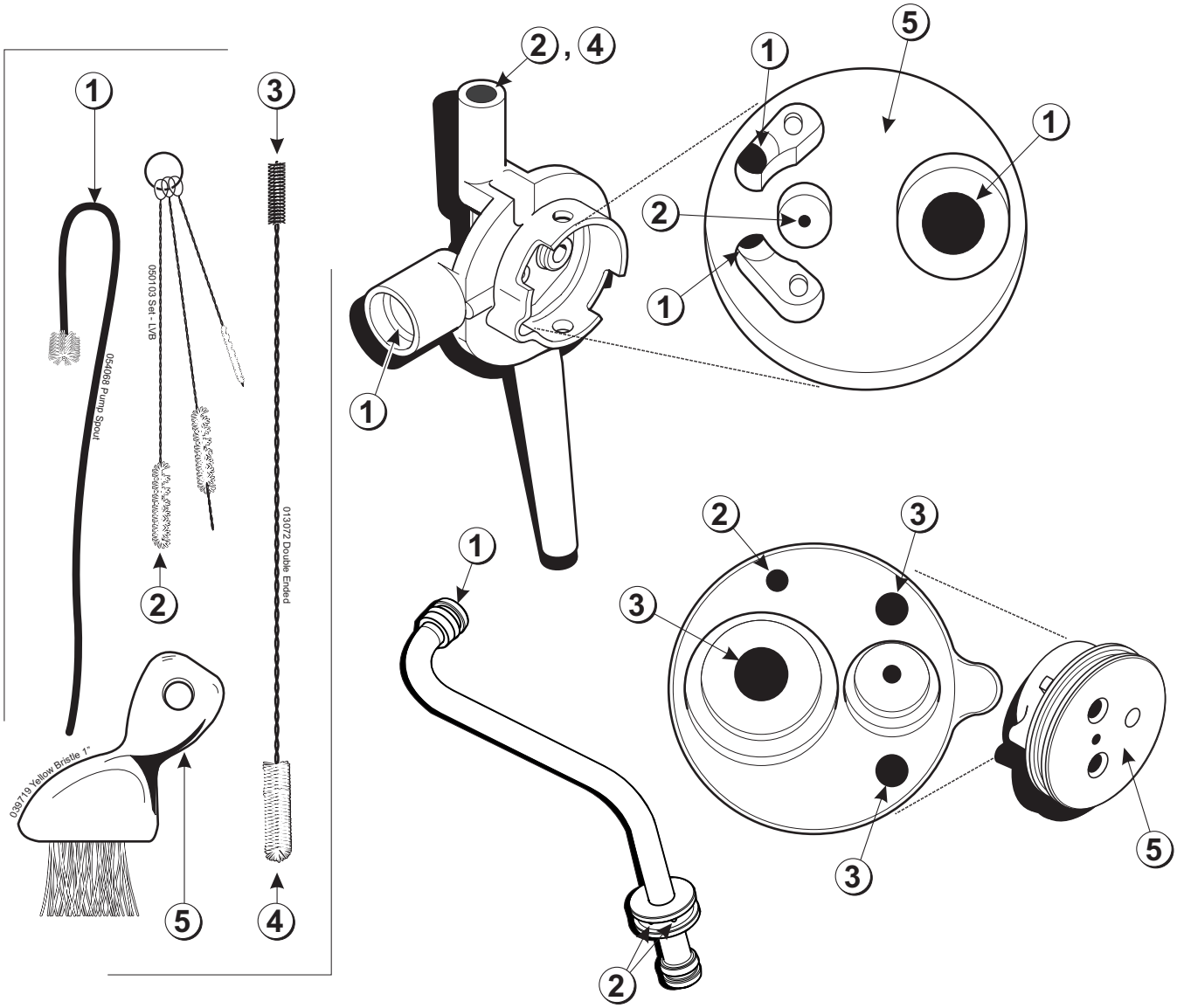


ITEM	DESCRIPTION	PART NO.
1	TOOL-O-RING REMOVAL	048260-WHT
2	BRUSH-REAR·BRG·1IN.DX2IN.	013071
3	BRUSH-DOUBLE·ENDED	013072
4	BRUSH-DRAW·VALVE·1”ODX2	013073
5	BRUSH-MIX·PUMP·BODY-3”X7	023316

ITEM	DESCRIPTION	PART NO.
6	SANITIZER KAY-5 CASE 125	041082
7	PAIL-MIX 10 QT.	013163
8	BRUSH-END-DOOR-SPOUT	039719
9	BRUSH-SET·LVB	050103
10	BRUSH-PUMP·SPOUT	054068

Brush Identification (Model C706)

Note: For proper brush cleaning of the adapter, cap, feed tube, and orifice, refer to the following illustration which indicates proper brush usage.



ITEM	DESCRIPTION
1	WHITE BRISTLE – 1/2" x 1/2"
2	WHITE BRISTLE – 3/16" x 1"
3	BLACK BRISTLE – 1/4" x 1–1/4"
4	WHITE BRISTLE – 1/2" x 1"
5	WHITE BRISTLE – 3" x 1/2"

+ Available Separately

DESCRIPTION	PART NUMBER	C706 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
BEARING-FRONT-SHOE	050348	1	000		
BEARING-REAR SHELL *NICK.PLATE	031324	1	000		
+GUIDE-DRIP SEAL	028992	1	000		
+NUT-BRASS BEARING	028991	1	000		
+O-RING-1/2OD X .070W	024278	2	000		
+WASHER-BEARING LOCK	012864	1	000		
BEATER A.-3.4QT-1 PIN-SUPPORT	X46231	1	103		
+BLADE-SCRAPER-PLASTIC 8-1/8L	046235	2	000		
+CLIP-SCRAPER BLADE*7.00 INCH*	046236	2	103		
+SHOE-FRONT HELIX *FRONT*	050347	1	000		
+SHOE-FRONT HELIX *REAR*	050346	1	000		
BELT-AX41	023876	2	000	208-230V 60HZ 1PH	
BELT-AX42	023877	2	000	208-230V 50/60HZ 3PH	
BLOCK-TERMINAL 2P-L1,L2	039422	1	103	208-230V 60HZ 1PH	
BLOCK-TERMINAL 3P-L1,L2,L3	039423	1	103	208-230V 60HZ 3PH	
BLOCK-TERMINAL-7 POLE GREEN	024156	1	103	220-240V 50HZ 3PH	
BLOCK-TERMINAL 2P-L1,N	039421	1	103	220-240V 50HZ 3PH	
BOARD-LOGIC-GEN 2.9-SD/HPR PMP	X42002SER1	1	212		
BOARD-POWER-GEN 1 & 2	X32326-SER	1	212		
BRUSH-DOUBLE ENDED-PUMP&FEED T	013072	1	000		
BRUSH-DRAW VALVE 1”ODX2”X17”L	013073	1	000		
BRUSH-END-DOOR-SPOUT-SS-HT	039719	1	000		
BRUSH-MIX PUMP BODY-3”X7”WHITE	023316	1	000		
BRUSH-PUMP SPOUT *MC13*	054068	1	000		
BRUSH-REAR BRG 1IN.DX2IN.LGX14	013071	1	000		
BRUSH-SET LVB	050103	1	000		
CABLE-RIBBON-PWR/RLY*C706* 60”	056295	1	103		
CARD-ASSY SIMPLIFIED PMP-SS	057031	1	000		
COMPRESSOR AHA2490ZXD-AH556EF	047519-27F	1	512	208-230V 60HZ 1PH	
+CAPACITOR-RUN- 35UF/440V	048132	1	103		
+CAPACITOR-START-130-156UF/330V	036048	1	103		

Model C706

+ Available Separately

DESCRIPTION	PART NUMBER	C706 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
+GROMMET-COMPRESSOR MOUNT-AH	039923	4	000		
+KIT-MOUNTING-COMPRESSOR	047704	1	000		
+RELAY-START-COMPRESSOR	036047	1	103		
+SLEEVE-MOUNTING-COMP.-AH	039924	4	000		
COMPRESSOR AHA2490ZXF-AH556RF	047519-33F	1	512	208-230V 60HZ 3PH	
COMPRESSOR FH2511Z	054476-40	1	512	220-240V 50HZ 3PH	
+CAPACITOR-RUN- 25 UF/440V	037431	1	103		
+CAPACITOR-START-145-175UF/330V	054824	1	103		
+RELAY-START-COMPRESSOR	054823-40	1	103		
COMPRESSOR PL35G	055187-27	1	512	SHR	
+RELAY-START-COMPRESSOR	055358	1	103		
CONDENSER-AC-15LX14HX2.59T-3RW	046558	1	103	MAIN REFRIGERATION	
CONDENSER-AC-7X6X1.25-2 ROW	027155	1	103	SHR	
COUPLING-DRIVE 3/4 HEX X 1-7/8	012721	1	103		
COVER-HOPPER COMPLETE	053809	1	103		
+PIN-RETAINING-HOPPER COVER	043934	4	103		
DECAL-DEC-TAYLOR C706	056079	1	000	K2128855/Prior	167
DECAL-DEC-TAYLOR C706	057311	1	000	K2128856/Up	167
DECAL-INST-CLN-PMP HPR	042170	1	000		
DECAL-TROUBLESHOOT	038374	1	000		
DIAGRAM-WIRING *C706*C707*	056352-27	1	000	208-230V 60HZ 1PH	
DIAGRAM-WIRING *C706*C707*	056352-33	1	000	208-230V 60HZ 3PH	
DIAGRAM-WIRING *C706*C707*	056352-40	1	000	220-240V 50HZ 3PH	
DOOR A.-W/BAFFLE *C706*	X56747-1	1	103		
+HANDLE A.-DRAW-WELDED *C706*	X56246	1	103		
+GASKET-DOOR HT 4”	048926	1	000	DOOR GASKET	
+PIN-HANDLE-SS *C602*	055819	1	103		
+PLUG-PRIME	028805	1	103		
+O-RING-3/8 OD X .070W	016137	2	000		
+SCREW-ADJUSTMENT-5/16-24 *602*	056332	1	103		
+O-RING-1/4 OD X .070W 50 DURO	015872	1	000		
+VALVE A.-DRAW *C706*	X56072	1	103		
+O-RING-7/8 OD X .103W	014402	3	000		

Model C706

+ Available Separately

DESCRIPTION	PART NUMBER	C706 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
DRYER-CAP. TUBE .021 ID X 9FT	055522	1	000		
DRYER-FILTER-HP62-3/8 X 1/4S	048901	1	000		
GASKET-BASE PAN *C706*	056058	1	000		
GEAR A.*REDUCER 4.21:1	021286-SER	1	212		
GUARD-FAN	028534-1	1	103	SHR	
GUIDE A.-DRIP PAN	X28863	1	103	REAR SHELL BEARING - LONG	
GUIDE A.-DRIP PAN	X48433	1	103	REAR SHELL BEARING - SHORT	
GUIDE A.-DRIP PAN-PUMP *C706*	X56326	1	103	PUMP MOTOR	
JACK A.-FLAVORBURST *C706*	X56353	1	103		
KIT A.-TUNE UP*C706*	X56085	1	000		
BEARING-FRONT-SHOE	050348	1	000		
BLADE-SCRAPER-PLASTIC 8-1/8L	046235	2	000		
CLIP-SCRAPER BLADE*7.00 INCH*	046236	2	103		
GASKET-DOOR HT 4”-DOUBLE	048926	1	000		
KIT A.-PUMP-SIMPLIFIED SS	X56200-10	1	000		
GASKET-SIMPLIFIED PUMP VALVE	053527	1	000		
INSTRUCTION-PUMP SIMPLIFIED	056200-10	1	000		
O-RING 1/2 ID X .139W	048632	2	000		
O-RING-1/2OD X .070W	024278	1	000		
O-RING-11/16ODX.103W-RED	016132	2	000		
O-RING-1-3/4 OD X .139W	008904	1	000		
O-RING-2-1/8 OD X .139W-#225	020051	2	000		
RING-CHECK-FEED-TUBE	056524	1	000		
O-RING-1/4 OD X .070W 50 DURO	015872	1	000		
O-RING-3/8 OD X .070W	016137	2	000		
O-RING-7/8 OD X .103W	014402	3	000		
SEAL-DRIVE SHAFT	032560	1	000		
SHOE-FRONT HELIX *FRONT*	050347	1	000		
SHOE-FRONT HELIX *REAR*	050346	1	000		
TOOL-O-RING REMOVAL-FREEZER	048260-WHT	1	000		
LABEL-CAUTION-GRD-PERM-ENG/SP	032164	1	000		
LABEL-DOOR-MOVE PART	032749	1	000		
LABEL-RESET-MIX PMP	044452	1	000		

+ Available Separately

DESCRIPTION	PART NUMBER	C706 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
LABEL-SW-POWER-OFF/ON-SYMBOLS	052632	1	000		
LABEL-WARN-COVER	051433	4	000	OUTSIDE PANELS	
LUBRICANT-TAYLOR 4 OZ.	047518	1	000		
MAN-OPER C706	056436-M	1	000		
MOTOR-1.5 HP	021522-27	1	212	208-230V 60HZ 1PH	
MOTOR-1.5 HP	021522-33	1	212	208-230V 60HZ 3PH	
MOTOR-1.5 HP	021522-34	1	212	220-240V 50HZ 3PH	
MOTOR-FAN 80 WATT 1550 RPM CW	051744-27	1	103	208-230V 60HZ 1PH MAIN REF SYS	
+BOOT-CAPACITOR INSULATING	031314	1	000		
+FAN-5 BLADE 12”PUSH 32DEG CCW	047279	1	103		
+CAPACITOR-RUN- 4UF-440V	051785	1	103		
MOTOR-FAN 100W 220-240V 50HZ	047178-34	1	103	220-240V 50HZ 3PH MAIN REF SYS	
+CAPACITOR-RUN- 4UF-370V	019624	1	103		
+FAN-5 BLADE 12”PUSH 32DEG CCW	047279	1	103		
MOTOR-FAN 105CFM 3000RPM	027309-27	1	103	SHR	
+CAPACITOR-START-60UF-220/275V	047703	1	103		
MOTOR-REDUCER 32 RPM-HPR PUMPM	036955-34	1	212		
+CAPACITOR-START- 47-56UF/220TO	037251-34	1	103		
+RELAY-MTR START TI#4CR-1-625	039725-27	1	103		
OVERLOAD-TI #2BM-20V9R-KK20-71	044464	1	103		
+NUT-OVERLOAD RESET	045026	1	000		
NUT-STUD *460-664-754-56*SHORT	034383	4	103	HANDSCREWS	
ORIFICE	022465-100	1	103		
O-RING-3/8 OD X .070W	016137	1	000		
PAIL-MIX 10 QT.	013163	1	000		
PAN A.-DRIP 5 1/2” LONG *C706*	X56074	1	103	PUMP MOTOR	
PAN-DRIP 11-5/8 LONG	027503	1	103	SIDE PANEL	
PANEL A.-FRONT *C706*	X56060	1	103	K2117198/Prior	167
PANEL A.-FRONT *C706*	X56595	1	103	K2117199/Up	167
PANEL A.-SIDE-RIGHT *C706*	X56083	1	103	TOP AIR DISCHARGE	
PANEL-SIDE-RIGHT	056242	1	103	STD UNIT W/OUT TOP AIR DISCHARGE	
PANEL-FRONT-LOWER *C706*	056061	1	103		
PANEL-REAR *C706*	056077	1	103		

+ Available Separately

DESCRIPTION	PART NUMBER	C706 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
PANEL-SIDE-LEFT *C706*	056082	1	103		
PLATE A.-DEC *C706*	X56081	1	103		
PLATE-DEC *C706*	056235	1	103	K2117198/Prior	167
PLATE-DEC *C706*	057034	1	103	K2117199/Up	167
PLUG-DRIP TRAY HOLE	029595	1	000	RIGHT SIDE PANEL	
PROBE A.-MIX *SQUARE*	X30922	1	103	MIX LOW	
+DISC-PROBE *SQ HOLE*	030965	1	103		
+SPACER-PROBE *SQ HOLE*	030966	1	103		
PROBE A.-MIX OUT-SQUARE HOLE	X41348	1	103	MIX OUT	
+SPACER-PROBE-ROUND HOLE-5/8DIA	041347	1	103		
+SPACER-PROBE-SQUARE HOLE-7/8	041346	1	103		
PROBE A.-THERMISTOR	X31602	1	103	BARREL	
PROBE A.-THERMISTOR/RESISTOR	X50717	1	103	HOPPER	
PULLEY-2AK22 X .625-.6265	016403	1	103	60HZ BEATER MOTOR	
PULLEY-2AK27 X .625-.6265	011545	1	103	50HZ BEATER MOTOR	
PULLEY-2AK74-5/8	027822	1	103	GEAR	
PUMP A.-MIX SIMPLIFIED S.S.	X57029	1	103		
+CLIP-MIX PUMP RETAINER	044641	1	103		
ADAPTOR-MIX INLET*S.S.*	054825	1	103		
CAP-VALVE	056874-13	1	103		
+CAP-VALVE BODY SS	056874-8	1			
+CAP-VALVE BODY SS	056874-10	1			
CYLINDER A.-PUMP-HOPPER-SS	X57025	1	103		
+EXTENSION-ADAPTOR *SOFT SERVE*	056876	1			
GASKET-SIMPLIFIED PUMP VALVE	053527	1	000		
O-RING-2-1/8 OD X .139W-#225	020051	2	000		
PIN A.-RETAINING	X55450	1	103		
+PIN-COTTER-HAIRPIN-1/8DIA	044731	1	103		
PISTON	053526	1	103		
RECEIVER A.-REFRIG. *C706*	X56063	1	103	ACCUMULATOR	
RECEPTACLE A.-QUICK CONNECT	X33321	1	103	DRAW SWITCH	
RELAY-3 POLE-20A-208/240 50/60	012725-33	1	103		
SANITIZER KAY-5 125 PACKETS	041082	1	000		

+ Available Separately

DESCRIPTION	PART NUMBER	C706 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
SHAFT A.-DRIVE-MIX PUMP-HOPPER	X39084	1	103		
CRANK-DRIVE-HOPPER MIX PUMP	039235	1	103		
O-RING 1/2 ID X .139W	048632	2	000		
O-RING-1-3/4 OD X .139W	008904	1	000		
SHAFT-PUMP-MIX	039106	1	103		
SHAFT-BEATER *C706*	056078	1	103		
+SEAL-DRIVE SHAFT	032560	1	000		
SHELF-TRAY-DRIP *C706*	056076	1	103		
SHELL A.-INSULATED *C706*	X56054	1	512		
+STUD-NOSE CONE *C602*	055987	4	103		
SHIELD-SPLASH *RD30*	049203	1	103		
SHROUD-DANFOSS	027386	1	103	SHR	
SHROUD-FAN-BLADE 12” *C706*	056050	1	103	MAIN CONDENSER	
SLEEVE A.-PUMP	X45012	1	103		
+NUT-PUMP SLEEVE *8751*HT*	036933	1	000		
STARTER-1 PHASE-4.5 TO 7 A	041950-27K	1	103	208-230V 60HZ 1PH	
STARTER-3 PHASE-3 TO 5 A	041950-33J	1	103	208-230V 60HZ 3PH	
SWITCH A.-DRAW *C706*	X56147	1	103		
ARM A.-DRAW *C706*	X56253	1	103		
E-RING 3/16 .335 O.D.	049178	1	000		
PIN-PIVOT	015478	1	103		
SPRING-RETURN-LEFT-SELF CLOSE	041660	1	103		
SPRING-RETURN-RIGHT-SELF CLOSE	041661	1	103		
SWITCH-LEVER-SPDT-10A-125-250V	028889	2	103		
SWITCH-PRESSURE 405 PSI-SOLDER	052663	1	103		
SWITCH-REED *DOOR INTERLOCK*	056249	1	103		
SWITCH-TOGGLE-DPDT*ON-NONE-ON	024295	1	103		
THERMOMETER-DIGITAL *C706*	056239	1	103		
TOOL-O-RING REMOVAL-FREEZER	048260-WHT	1	000		
TRAY-DRIP-SOFT SERVE *C706*	056858	1	103		
TRIM-CORNER-REAR-LEFT *C706*	056064	1	103	K2117198/Prior	167
TRIM-CORNER-REAR-LEFT *C706*	056964	1	103	K2117199/Up	167
TRIM-CORNER-REAR-RIGHT *C706*	056065	1	103	K2117198/Prior	167

+ Available Separately

DESCRIPTION	PART NUMBER	C706 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
TRIM-CORNER-REAR-RIGHT *C706*	056965	1	103	K2117199/Up	167
TUBE A.-FEED-HOPPER S.S.	X56521	1	103		
+RING-CHECK-FEED-TUBE	056524	1	000		
+O-RING-11/16ODX.103W-RED	016132	2	000		
TUBE A.-FEED-SS-5/32 HOLE DIA	X29429-2	1	103		
+O-RING-.643 OD X .077W	018572	4	000		
VALVE-ACCESS 1/4FL X 1/4SOLDER	044404	1	103		
VALVE-ACCESS-1/4 MFLX1/4 S-90	047016	1	103	SHR	
VALVE-ACCESS-1/4MFL X 3/8ODSDR	053565	2	103		
VALVE-EPR 1/4S	022665	1	103		
VALVE-EXP-AUTO-1/4S X1/4 FPT	046365	1	103		
+BOOT-EXPANSION VALVE	050900	1	000		
WASHER-PLASTIC PIVOT	013808	4	000		

+ Available Separately

DESCRIPTION	PART NUMBER	C707 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
BEARING-FRONT	050216	1	000		
BEARING-REAR SHELL *NICK.PLATE	031324	1	000		
+GUIDE-DRIP SEAL	028992	1	000		
+NUT-BRASS BEARING	028991	1	000		
+O-RING-1/2OD X .070W	024278	2	000		
+WASHER-BEARING LOCK	012864	1	000		
BEATER A.-3.4QT-HELICORE	X31761	1	103		
+BLADE-SCRAPER-PLASTIC 17L	035174	2	000		
BELT-AX41	023876	2	000	208-230V 60HZ 1PH	
BELT-AX42	023877	2	000	208-230V 50/60HZ 3PH	
BLOCK-TERMINAL 2P-L1,L2	039422	1	103	208-230V 60HZ 1PH	
BLOCK-TERMINAL 3P-L1,L2,L3	039423	1	103	208-230V 60HZ 3PH	
BLOCK-TERMINAL-7 POLE GREEN	024156	1	103	220-240V 50HZ 3PH	
BLOCK-TERMINAL 2P-L1,N	039421	1	103	220-240V 50HZ 3PH	
BOARD-LOGIC-GEN 2.6-W/SEL DIFF	X36641SER1	1	212		
BOARD-POWER-GEN 1 & 2	X32326-SER	1	212		
BRUSH-DOUBLE ENDED-PUMP&FEED T	013072	1	000		
BRUSH-DRAW VALVE 1”ODX2”X17”L	013073	1	000		
BRUSH-END-DOOR-SPOUT-SS-HT	039719	1	000		
BRUSH-MIX PUMP BODY-3”X7”WHITE	023316	1	000		
BRUSH-PUMP SPOUT *MC13*	054068	1	000		
BRUSH-REAR BRG 1IN.DX2IN.LGX14	013071	1	000		
BRUSH-SET LVB	050103	1	000		
CABLE-RIBBON-PWR/RLY*C706* 60”	056295	1	103		
COMPRESSOR AHA2490ZXD-AH556EF	047519-27F	1	512	208-230V 60HZ 1PH	
+CAPACITOR-RUN- 35UF/440V	048132	1	103		
+CAPACITOR-START-130-156UF/330V	036048	1	103		
+GROMMET-COMPRESSOR MOUNT-AH	039923	4	000		
+KIT-MOUNTING-COMPRESSOR	047704	1	000		
+RELAY-START-COMPRESSOR	036047	1	103		
+SLEEVE-MOUNTING-COMP.-AH	039924	4	000		
COMPRESSOR AHA2490ZXF-AH556RF	047519-33F	1	512	208-230V 60HZ 3PH	

+ Available Separately

DESCRIPTION	PART NUMBER	C707 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
COMPRESSOR FH2511Z	054476-40	1	512	220-240V 50HZ 3PH	
+CAPACITOR-RUN- 25 UF/440V	037431	1	103		
+CAPACITOR-START-145-175UF/330V	054824	1	103		
+RELAY-START-COMPRESSOR	054823-40	1	103		
COMPRESSOR PL35G	055187-27	1	512	SHR	
+RELAY-START-COMPRESSOR	055358	1	103		
CONDENSER-AC-15LX14HX2.59T-3RW	046558	1	103	MAIN REFRIGERATION	
CONDENSER-AC-7X6X1.25-2 ROW	027155	1	103	SHR	
COUPLING-DRIVE 3/4 HEX X 1-7/8	012721	1	103		
COVER-HOPPER COMPLETE	053809	1	103		
+PIN-RETAINING-HOPPER COVER	043934	4	103		
DECAL-DEC-TAYLOR C707	057312	1	000		
DECAL-INST-CLN HPR	019029	1	000		
DECAL-TROUBLESHOOT	038374	1	000		
DIAGRAM-WIRING *C706*C707*	056352-27	1	000	208-230V 60HZ 1PH	
DIAGRAM-WIRING *C706*C707*	056352-33	1	000	208-230V 60HZ 3PH	
DIAGRAM-WIRING *C706*C707*	056352-40	1	000	220-240V 50HZ 3PH	
DOOR A.-W/BAFFLE *C706*	X56747-1	1	103		
+HANDLE A.-DRAW-WELDED *C706*	X56246	1	103		
+GASKET-DOOR HT 4”	048926	1	000	DOOR GASKET	
+PIN-HANDLE-SS *C602*	055819	1	103		
+PLUG-PRIME	028805	1	103		
+O-RING-3/8 OD X .070W	016137	2	000		
+SCREW-ADJUSTMENT-5/16-24 *602*	056332	1	103		
+O-RING-1/4 OD X .070W 50 DURO	015872	1	000		
+VALVE A.-DRAW *C706*	X56072	1	103		
+O-RING-7/8 OD X .103W	014402	3	000		
DRYER-CAP. TUBE .021 ID X 9FT	055522	1	000		
DRYER-FILTER-HP62-3/8 X 1/4S	048901	1	000		
GASKET-BASE PAN *C706*	056058	1	000		
GEAR A.*REDUCER 4.21:1	021286-SER	1	212		
GUARD-FAN	028534-1	1	103	SHR	
GUIDE A.-DRIP PAN	X28863	1	103	REAR SHELL BEARING - LONG	

+ Available Separately

DESCRIPTION	PART NUMBER	C707 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
GUIDE A.-DRIP PAN	X48433	1	103	REAR SHELL BEARING - SHORT	
JACK A.-FLAVORBURST *C706*	X56353	1	103		
KIT A.-TUNE UP *1SPOUT*	X49463-58	1	000		
BEARING-FRONT	050216	1	000		
BLADE-SCRAPER-PLASTIC 17L	035174	2	000		
GASKET-DOOR HT 4”-DOUBLE	048926	1	000		
O-RING-1/4 OD X .070W 50 DURO	015872	1	000		
O-RING-3/8 OD X .070W	016137	2	000		
O-RING-7/8 OD X .103W	014402	3	000		
SEAL-DRIVE SHAFT	032560	1	000		
TOOL-O-RING REMOVAL-FREEZER	048260-WHT	1	000		
LABEL-CAUTION-GRD-PERM-ENG/SP	032164	1	000		
LABEL-DOOR-MOVE PART	032749	1	000		
LABEL-SW-POWER-OFF/ON-SYMBOLS	052632	1	000		
LABEL-WARN-COVER	051433	4	000	OUTSIDE PANELS	
LUBRICANT-TAYLOR 4 OZ.	047518	1	000		
MAN-OPER C706	056436-M	1	000		
MOTOR-1.5 HP	021522-27	1	212	208-230V 60HZ 1PH	
MOTOR-1.5 HP	021522-33	1	212	208-230V 60HZ 3PH	
MOTOR-1.5 HP	021522-34	1	212	220-240V 50HZ 3PH	
MOTOR-FAN 80 WATT 1550 RPM CW	051744-27	1	103	208-230V 60HZ 1PH MAIN REF SYS	
+BOOT-CAPACITOR INSULATING	031314	1	000		
+FAN-5 BLADE 12”PUSH 32DEG CCW	047279	1	103		
+CAPACITOR-RUN- 4UF-440V	051785	1	103		
MOTOR-FAN 100W 220-240V 50HZ	047178-34	1	103	220-240V 50HZ 3PH MAIN REF SYS	
+CAPACITOR-RUN- 4UF-370V	019624	1	103		
+FAN-5 BLADE 12”PUSH 32DEG CCW	047279	1	103		
MOTOR-FAN 105CFM 3000RPM	027309-27	1	103	SHR	
+CAPACITOR-START-60UF-220/275V	047703	1	103		
NUT-STUD *460-664-754-56*SHORT	034383	4	103	HANDSCREWS	
ORIFICE	022465-100	1	103		
O-RING-3/8 OD X .070W	016137	1	000		
PAIL-MIX 10 QT.	013163	1	000		

+ Available Separately

DESCRIPTION	PART NUMBER	C707 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
PAN-DRIP 11-5/8 LONG	027503	1	103	SIDE PANEL	
PANEL A.-FRONT *C706*	X56595	1	103		
PANEL A.-SIDE-RIGHT *C706*	X56083	1	103	TOP AIR DISCHARGE	
PANEL-SIDE-RIGHT	056242	1	103	STD UNIT W/OUT TOP AIR DISCHARGE	
PANEL-FRONT-LOWER *C706*	056061	1	103		
PANEL-REAR *C707*	056077-SP1	1	103		
PANEL-SIDE-LEFT *C707*	056082-SP1	1	103		
PLATE A.-DEC *C706*	X56081	1	103		
PLATE-DEC *C706*	057034	1	103		
PROBE A.-MIX *SQUARE*	X30922	1	103	MIX LOW	
+DISC-PROBE *SQ HOLE*	030965	1	103		
+SPACER-PROBE *SQ HOLE*	030966	1	103		
PROBE A.-MIX OUT-SQUARE HOLE	X41348	1	103	MIX OUT	
+SPACER-PROBE-ROUND HOLE-5/8DIA	041347	1	103		
+SPACER-PROBE-SQUARE HOLE-7/8	041346	1	103		
PROBE A.-THERMISTOR	X31602	1	103	BARREL	
PROBE A.-THERMISTOR/RESISTOR	X50717	1	103	HOPPER	
PULLEY-2AK22 X .625-.6265	016403	1	103	60HZ BEATER MOTOR	
PULLEY-2AK27 X .625-.6265	011545	1	103	50HZ BEATER MOTOR	
PULLEY-2AK74-5/8	027822	1	103	GEAR	
RECEIVER A.-REFRIG. *C706*	X56063	1	103	ACCUMULATOR	
RECEPTACLE A.-QUICK CONNECT	X33321	1	103	DRAW SWITCH	
RELAY-3 POLE-20A-208/240 50/60	012725-33	1	103		
SANITIZER KAY-5 125 PACKETS	041082	1	000		
SHAFT-BEATER *C706*	056078	1	103		
+SEAL-DRIVE SHAFT	032560	1	000		
SHELF-TRAY-DRIP *C706*	056076	1	103		
SHELL A.-INSULATED *C707*	X56665	1	512		
+STUD-NOSE CONE *C602*	055987	4	103		
SHIELD-SPLASH *RD30*	049203	1	103		
SHROUD-DANFOSS	027386	1	103	SHR	
SHROUD-FAN-BLADE 12” *C706*	056050	1	103	MAIN CONDENSER	
STARTER-1 PHASE-4.5 TO 7 A	041950-27K	1	103	208-230V 60HZ 1PH	

Model C707

+ Available Separately

DESCRIPTION	PART NUMBER	C707 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
STARTER-3 PHASE-3 TO 5 A	041950-33J	1	103	208-230V 60HZ 3PH	
SWITCH A.-DRAW *C706*	X56147	1	103		
ARM A.-DRAW *C706*	X56253	1	103		
E-RING 3/16 .335 O.D.	049178	1	000		
PIN-PIVOT	015478	1	103		
SPRING-RETURN-LEFT-SELF CLOSE	041660	1	103		
SPRING-RETURN-RIGHT-SELF CLOSE	041661	1	103		
SWITCH-LEVER-SPDT-10A-125-250V	028889	2	103		
SWITCH-PRESSURE 405 PSI-SOLDER	052663	1	103		
SWITCH-REED *DOOR INTERLOCK*	056249	1	103		
SWITCH-TOGGLE-DPDT*ON-NONE-ON	024295	1	103		
THERMOMETER-DIGITAL *C706*	056239	1	103		
TOOL-O-RING REMOVAL-FREEZER	048260-WHT	1	000		
TRAY-DRIP-SOFT SERVE *C706*	056858	1	103		
TRIM-CORNER-REAR-LEFT *C706*	056964	1	103		
TRIM-CORNER-REAR-RIGHT *C706*	056965	1	103		
TUBE A.-FEED-SS-5/32 HOLE DIA	X29429-2	1	103		
+O-RING-.643 OD X .077W	018572	4	000		
VALVE-ACCESS 1/4FL X 1/4SOLDER	044404	1	103		
VALVE-ACCESS-1/4 MFLX1/4 S-90	047016	1	103	SHR	
VALVE-ACCESS-1/4MFL X 3/8ODSDR	053565	2	103		
VALVE-EPR 1/4S	022665	1	103		
VALVE-EXP-AUTO-1/4S X1/4 FPT	046365	1	103		
+BOOT-EXPANSION VALVE	050900	1	000		
WASHER-PLASTIC PIVOT	013808	4	000		

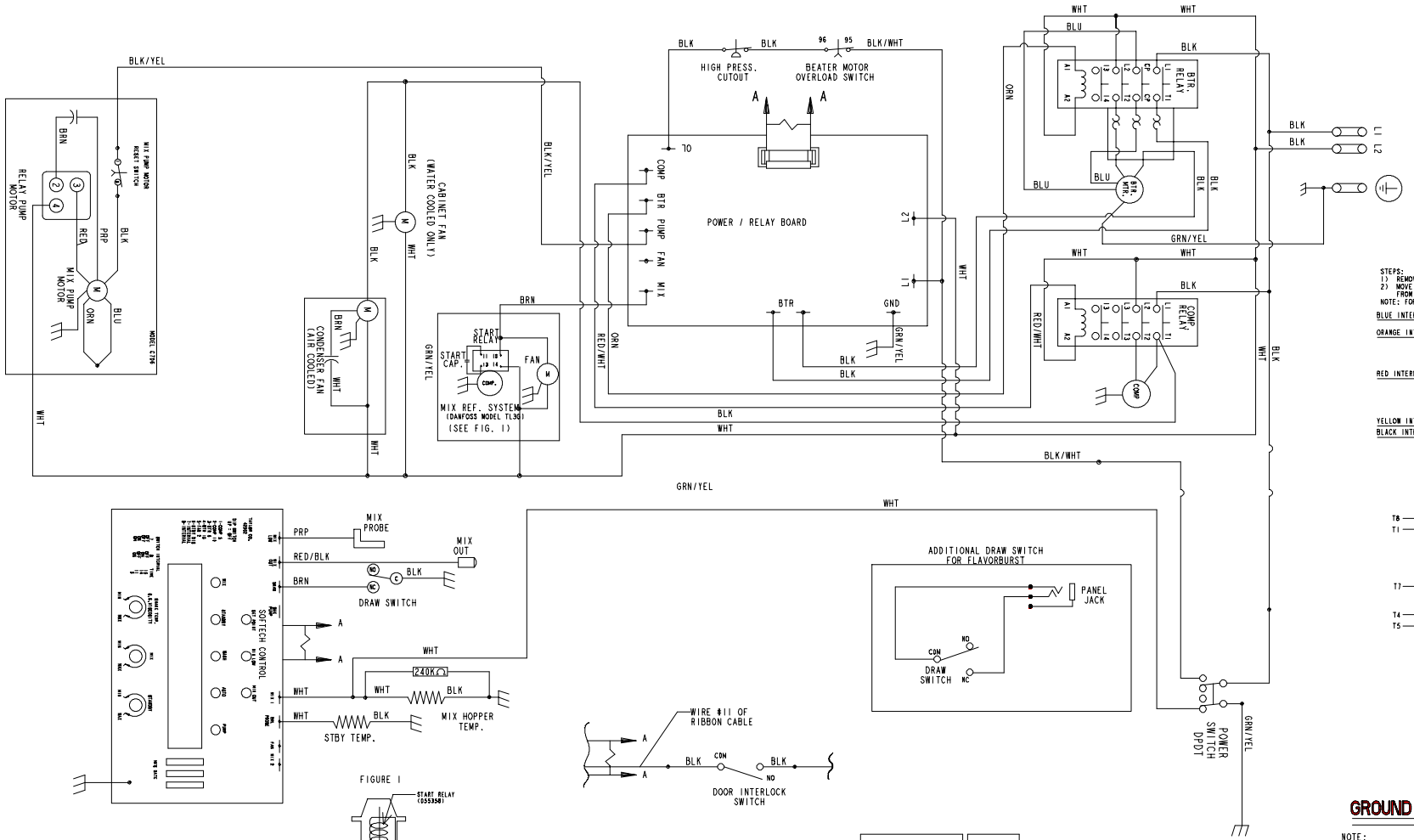
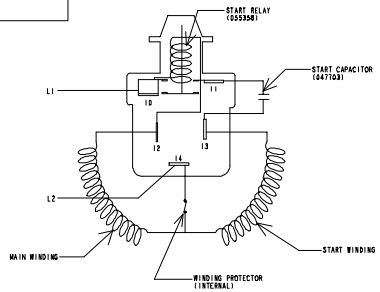
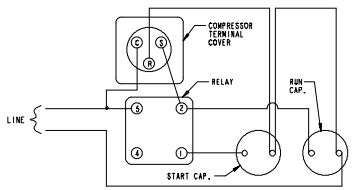


FIGURE 1



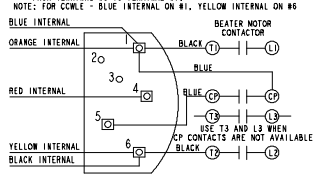
COMPRESSOR WIRING
(MODEL PL35G W/HST)



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

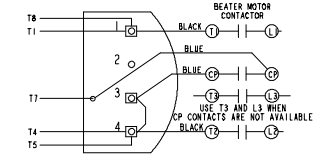
MAGNETEK BEATER MOTOR WIRING

STEPS:
1) REMOVE BROWN JUMPER FROM BETWEEN TERMINAL #1 TO TERMINAL #5
2) MOVE BLUE INTERNAL (FROM MOTOR MAIN WINDING) FROM TERMINAL #5 TO TERMINAL #1.
NOTE: FOR CCM16 - BLUE INTERNAL ON #1, YELLOW INTERNAL ON #6



LEESON BEATER MOTOR WIRING

STEPS:
1) DISCONNECT WIRE T7 FROM TERMINAL 3
2) SPLICE BLUE WIRE AS SHOWN



GROUND FRAME SECURELY

NOTE:
1. STATIC ELECTRICITY MAY CAUSE DAMAGE TO SOLID STATE COMPONENTS. ELIMINATE STATIC ELECTRICITY BY TOUCHING GROUNDED UNIT BEFORE HANDLING SOLID STATE COMPONENTS.
2. RED WIRE ON RIBBON CABLES MUST BE CONNECTED TO PIN 1 AT EACH END.

C706/C707
056352-27
Rev. 3/03