FOODSERVICE EQUIPMENT SPARES

FES

TECHNICAL **DIAGRAMS**

TAYLOR®

H60 & H63

01706 353 633

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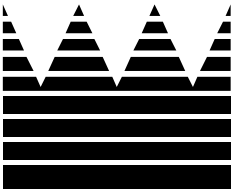
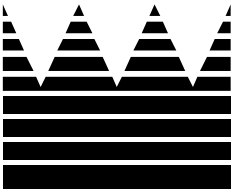


Table of Contents

Table of Contents *(Cont'd.)*

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



Section 1: Introduction

- **Safety**
- **Refrigerant**
- **Specifications**
- **Installation Instructions**

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 HP62 refrigerant. 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.

Warning: HP62 (R404A) refrigerant used in conjunction with polyolester oils is extremely moisture absorbent. When opening a refrigeration system, the maximum time the system is open must not exceed 15 minutes. Cap all open tubing to prevent humid air or water from being absorbed by the oil.

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.

Model H60 Specifications

Freezing Cylinder

One, 7 quart (6.6 liter)

Mix Hopper

One, 20 quart (18.9 liter)

Beater Motor

One, 1 hp.

Refrigeration Unit

One, approximately 13,000 btu/hr compressors.
Refrigerant HP62 (R404A)

Electrical

Standard is 208-230/60/1 or 208-230/60/3.
Each unit requires one dedicated electrical connection.
Single Phase Maximum Fuse Size: 25 Amps.
Minimum Circuit Ampacity: 21A.
Three Phase Maximum Fuse Size: 20 Amps.
Minimum Circuit Ampacity: 17 A.
(For exact electrical information, always refer to the data label of the unit.)

Air Cooled

Clearance: 6” (15.2 cm.) on both sides. To prevent warm exhaust from recirculating, place the unit against the wall. This will assure proper air flow across the condensers to obtain optimum performance.

Water Cooled

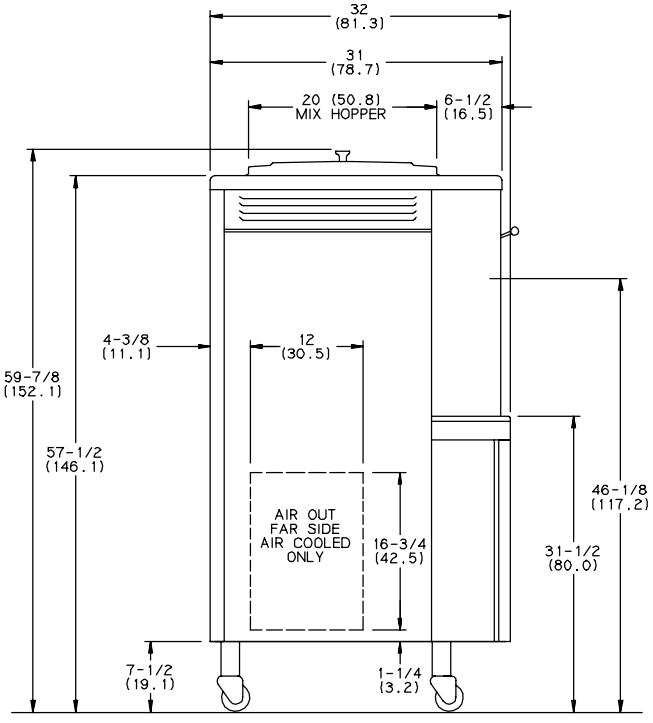
Water inlet and drain connections under side of base 3/8” FPT.

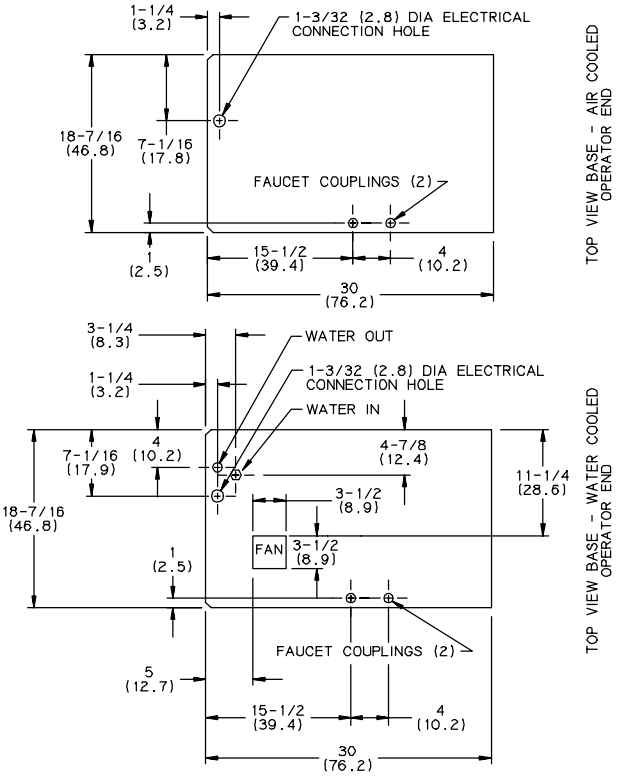
Dimensions

Width: 18-7/16” (46.8 cm.)
Height: 59-7/8” (152.1 cm.)
Depth: 32” (81.3 cm.)
Floor Clearance: 7-1/2” (19.1 cm.)
Mounted on standard casters or legs.

Approximate Weights

Net: 544 lbs. (246.7 kgs.)
Crated 604 lbs. (274 kgs.)
35.4 cu. ft. (1 cu. m.)





Model H63 Specifications

Freezing Cylinder

One, 7 quart (6.6 liter)

Mix Hopper

One, 20 quart (18.9 liter)

Beater Motor

One, 1 hp.

Refrigeration Unit

One, approximately 13,000 btu/hr compressor.
Refrigerant HP62 (404A).

Electrical

Standard is 208/230-60-1 or 208/230-60-3.
Each unit requires one dedicated electrical connection.
Single Phase Maximum Fuse Size: 30 Amps.
Minimum Circuit Ampacity: 18A.
Three Phase Maximum Fuse Size: 20 Amps.
Minimum Circuit Ampacity: 16A.
(For exact electrical information, always refer to the data label of the unit.)

Air Cooled

Clearance: 6” (15.2 cm.) around all sides. A 6” clearance is recommended to assure adequate air flow across the condenser.

Water Cooled

Water inlet and drain connections under side of base 3/8” FPT.

Dimensions

Width: 18-7/16” (46.8 cm.)
Depth: 32” (81.3 cm.)
Height: 59-7/8” (152.1 cm.)
Floor Clearance: 7-1/2” (19.1 cm.)
Mounted on standard casters or legs.

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Net: 544 lbs. (246.7 kgs.)
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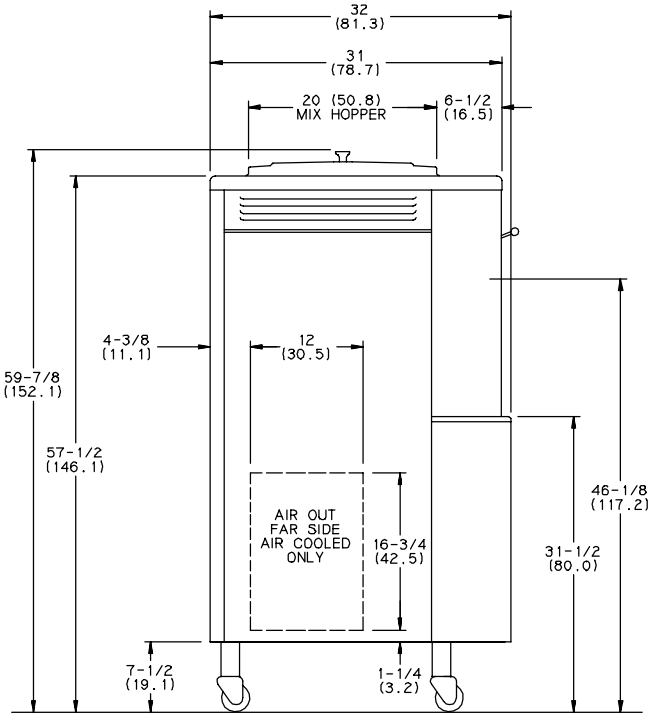
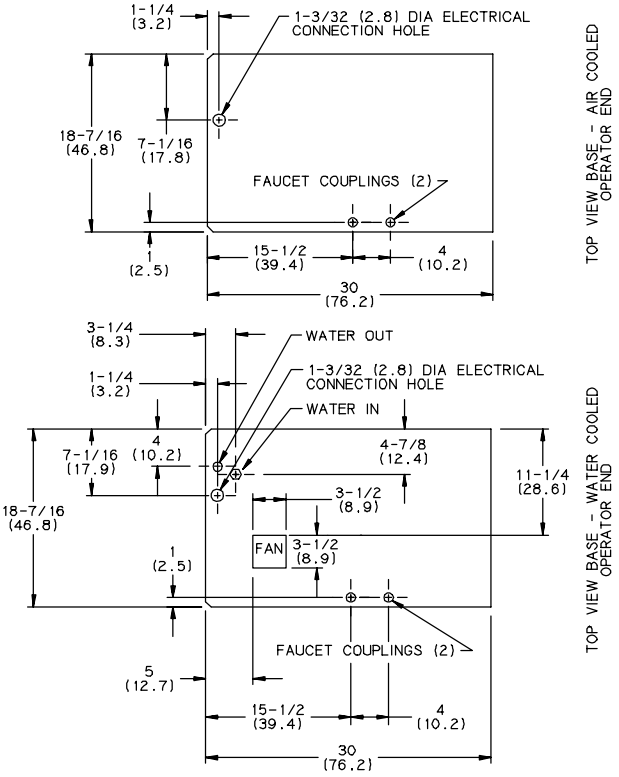




Installation Instructions

Air Cooled Units

Air cooled units require a minimum of 6" (15.2 cm.) of clearance on all sides of the freezer. Failure to allow for adequate clearance can reduce the refrigeration capacity of the freezer and possible cause damage to the compressor.

Refrigeration

Main Compressor:

Air Cooled Units:
Shake - 54 oz. (1,534 ml.) of HP62 (R404A).

Water Cooled Units:
Shake - 48 oz. (1,364 ml.) of HP62 (R404A).

Gear Alignment and Rear Shell Bearings

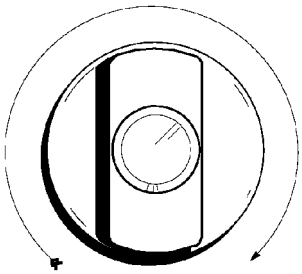
1. Make certain the drive shaft(s) can easily slide in and out of the female socket on the gear unit.
2. If a drive shaft is binding, the gear unit could be out of alignment (loose). Check the bolts on the gear unit to be sure they are tight.
3. Inspect the rear shell bearing for tightness. Be sure the locking tab has been folded over to prevent the nut from loosening.

Beater Rotation

Turn the Power Switch Off!

1. Remove the door assembly, the beater and the scraper blades.
2. Place the power switch in the "ON" position.
3. Press the "WASH" keypad on the control panel. This activates the beater motor only.
4. Lift the swing panel to view the rotation of the drive coupling. The drive coupling should be rotating clockwise as viewed from the front of the freezing cylinder.
5. Press the "WASH" key pad again to stop the beater motor.

REMEMBER TO DISCONNECT ALL POWER TO THE FREEZER!



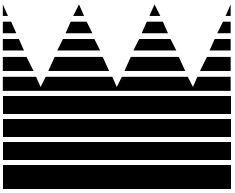
If the unit is single phase, rotation can be corrected at the leads inside the beater motor. (Follow the diagram printed on the motor.)

If the unit is three phase, rotation can be corrected by exchanging any two of the incoming power supply lines at the main terminal block.

Electrical Connections

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

This equipment is intended to be installed in accordance with the National Electric Code (NEC), NFPA 70. The purpose of this 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.



Section 2:

Systems, Controls and Operations

- **Running Specifications**
- **Universal Control Programming**
- **Heat Treatment Cycle**
- **Heat Treatment Graph**
- **Freezer Lock-Out**
- **Power Interrupt**
- **Timers**
- **Beater Stir Cycles**
- **Glycol System**
- **Consistency Control**
- **Air/Syrup Delivery**
- **Control Overviews**

Running Specifications

Pressures/Temperatures

The following are the Taylor Company recommended settings for various components within these models. All freezers in this manual use Refrigerant HP62 (R404A).

Expansion Valve

31 - 33 psi. (213.75 - 227.54 kPa.) for a normal product of 24° - 26°F. (–4°C)

Expansion Valve Adjustment

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

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

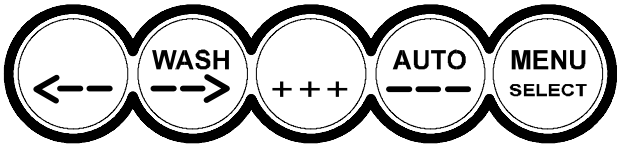
Place your gauge on the high side access port of the compressor. Turning the adjustment stem on the water valve clockwise will lower the pressure.

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.

Universal Control Programming

Liquid Crystal Display

The Liquid Crystal Display (LCD) is located on the front control panel. The LCD is used to show the current mode of operation.



Indicator Lights

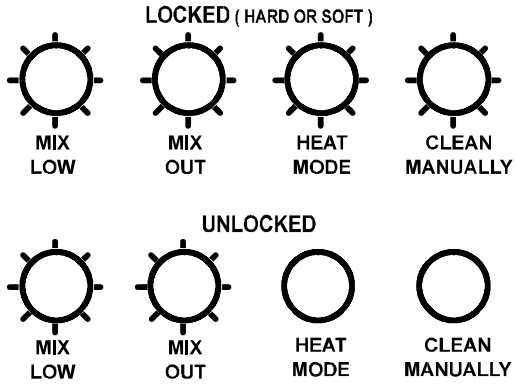
"Mix Low" – When the "MIX LOW" light begins to flash, it indicates the mix hopper has a low supply of mix. The mix hopper should be refilled as soon as possible.

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

"Heat Mode" – When the "HEAT MODE" light is flashing, it indicates that the freezer is in the process of a heat cycle.

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

IMPORTANT: When all four indicator lights are flashing, this signifies a locked condition. When only the "MIX LOW" and "MIX OUT" lights are flashing, this signifies an unlocked condition.



Power Switch

When placed in the "ON" position, the power switch allows control panel operation. The power switch is located on the left side of the control channel.

Consistency Control

The viscosity (thickness) of the shake is controlled by a sensing device called the consistency control. The consistency control knob is located beneath the lower right of the control channel. To achieve a thicker shake, turn the knob clockwise. Turn the knob counterclockwise to achieve a thinner shake consistency.

Allow the refrigeration system to cycle on and cycle off 2 or 3 times before an accurate consistency can be evaluated.

Reset Mechanism

The reset button is located under the right side panel. The reset mechanism protects the beater motor from an overload condition. If an overload occurs, the reset mechanism will trip. To properly reset the freezer, press the reset button firmly and clear the tone.

Flavor Selector Keypad (H60 Only)

Four shake flavors are offered from the Model H60 freezer: chocolate, strawberry, vanilla (unflavored product), and an optional flavor. Press the desired flavor keypad and open the draw valve. Product and syrup will automatically blend together to produce the chosen flavor.

"Rinse" (H60 Only)

At the completion of a shake draw, press the word "RINSE" to rinse any excess syrup and mix from the spinner housing.

"Calibrate" (H60 Only)

SYRUP	SYSTEM	PRESS
AUTO	– – –	START CAL
WASH	– – –	CONTINUOUS
CAL	– – –	STOP

The CALIBRATE function is used to set syrup pressures for proper syrup delivery and to prime syrup lines. Pressing the CAL key will access the screen. Pressing the CAL key a second time will return the display to the previous screen.

After selecting a flavor, press the WASH key and the respective syrup solenoid will open and will remain open until the CAL key is pressed. If the AUTO key is pressed after a flavor is selected, the respective syrup solenoid will open only for the set syrup calibration time. The previous screen will then appear on the LCD. Pressing the CAL key at any time during the syrup calibration mode will cause all syrup solenoids to close and the display will return to the previous screen.

Operating Screen Descriptions

The normal display is viewed when a machine is powered for normal operation. In this example, the power switch is in the ON position, but no mode of operation has been selected. The third line of the display shows the temperature of the mix hopper. The last line of the display shows the month and day (MM = month, DD = day) that the machine must be disassembled and brush cleaned.

MODE: OFF

HOPPER TEMP: 70.0 F
BRUSH CLEAN ON: MM/DD

The next display indicates the machine is operating in the "WASH" mode, the temperature of the mix hopper is 40°F. (4.4°C.), and the machine must be brush cleaned on October 31st.

MODE: WASH

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

The following displays pertain to the "HEAT" cycle:

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

MODE: HEAT
PHASE: HEAT
HOPPER TEMP: 140.0 F
BRUSH CLEAN ON: MM/DD

The mix temperature must be raised above 151°F. (66°C.) within 90 minutes or the freezer will be locked in "STANDBY". The cycle failure display will appear. The "AUTO" mode cannot be entered until brush cleaning takes place.

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

When the heating phase is complete, the freezer goes into the holding phase of the cycle. The holding phase will hold the temperature above 151°F. (66°C) for a minimum of 30 minutes.

In this example, the hopper temperature is 151°F. (66°C.).

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

The final phase of the heat treatment cycle is the cooling phase. Now the freezer must cool the mix below 45°F. (7.2°C.). If the product fails to cool in 2 hours, the freezer will lockout.

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

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

The entire heat treatment cycle must be completed in 4 hours.

When the entire heat cycle is complete, the normal display will appear, showing the machine in the “STANDBY” mode. The machine may now be placed in “AUTO” or be left in “STANDBY”.

MODE: STANDBY

HOPPER TEMP: 45.0 F
BRUSH CLEAN ON: MM/DD

Hard Lock: If a heat treatment cycle fails, the LCD will display a failure message and return the freezer to the “STANDBY” mode. Press the SEL key pad.

Note: Some causes for a lockout will leave the freezer in the “OFF” mode of operation.

HEAT TREAT CYCLE
FAILURE
FREEZER LOCKED
PRESS SEL KEY

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

NO AUTO OPERATION
ALLOWED UNTIL
BRUSH CLEANING
PRESS WASH KEY

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

MODE: OFF

HOPPER TEMP: 45.0 F
FREEZER LOCKED

Soft Lock: If a heat treatment cycle has not been initiated within the last 24 hours, a message will appear on the LCD. Line 3 of the LCD will indicate the reason the message appears. Following are the variable messages which will appear on line 3:

1. POWER SWITCH OFF: The power switch was in the OFF position.
2. MIX OUT PRESENT: There was a mix out condition present.
3. AUTO OR STANDBY OFF: The unit was not in the “AUTO” or “STANDBY” mode.
4. NO HEAT CYCLE TRIED: A heat treatment cycle was not attempted in the last 24 hours (AUTO HEAT TIME was advanced).

NO HEAT CYCLE START
BECAUSE
VARIABLE MESSAGE
PRESS SEL KEY

Press the SEL key pad to advance to the next display.

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

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

If the “WASH” key pad is pressed, the next display will appear and the freezer must be disassembled and brush cleaned.

MODE: OFF

HOPPER TEMP: 45.0 F
FREEZER LOCKED

Operator Menu

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

Fault Description (Option B)

The fault description will indicate if there is a fault with the freezer. To clear the tone for any corrected faults, press the left arrow key pad. To see if there is more than one fault, press the SEL key pad. When the last fault is displayed, the control will return to the OPERATOR MENU. To return to the main screen, press the SEL key pad again.

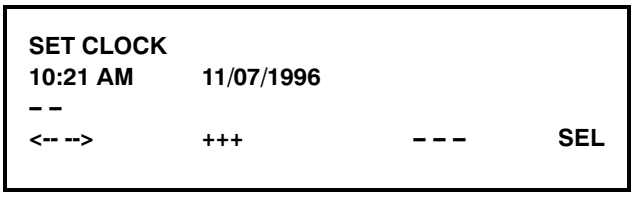
Possible Fault Descriptions

Following are the variable messages which will appear on line 2 along with the corrective action:

1. NO FAULT FOUND: There was no fault found in the freezer.
2. BEATER OVERLOAD: Press the reset button firmly. Clear the tone.
3. HPCO COMPRESSOR: Place the power switch in the “OFF” position. Wait 5 minutes for machine to cool. Place the power switch in the “ON” position. Clear the tone.
4. COMP ON TOO LONG: The compressor has been running for more than 11 minutes. (See “Timers”.)
5. HOPPER THERM BAD: Place the power switch in the “OFF” position. Replace the hopper thermistor.
6. BARREL THERM BAD: Place the power switch in the “OFF” position. Replace the barrel (freezing cylinder) thermistor.
7. GLYCOL THERM BAD: Place the power switch in the OFF position. Replace the glycol thermistor.
8. HOPPER OVER TEMP: If the hopper temperature reaches 45°F. (7.2°C.) or higher, the hard lock message will appear. Clear the tone. The machine needs to be disassembled and brush cleaned.
9. BARREL OVER TEMP: If the barrel temperature reaches 45°F. (7.2°C.) or higher, the hard lock message will appear. Clear the tone (Screen B). The machine needs to be disassembled and brush cleaned.
10. POWER FAILURE: This message will appear in the FAULT DESCRIPTION if a power failure occurs. Clear the tone (Screen B).

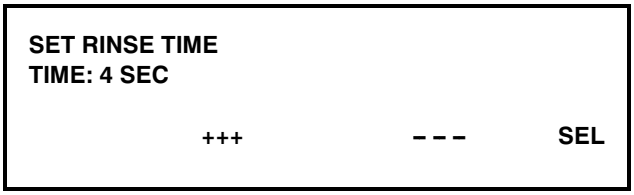
Set Clock (Option C)

This screen will display the current date and time. The date and time may be changed only after the freezer has been manually brush cleaned, but before it has been placed in the “AUTO” mode. Move the cursor under the number you wish to change. Press the “+++” key pad to increase the number; press the “- - -” key pad to decrease the number. When the desired time and date appears, press the SEL key pad once to return to the OPERATOR MENU, and twice to return to the main screen.



Set Rinse Time (Option D)

(H60 only – Not applicable to the H63). All subsequent menu choices will differ by one letter. This screen is used to set the amount of time needed to rinse the spinner housing of syrup after a shake has been drawn. Press the “+++” key pad to increase the number; press the “- - -” key pad to decrease the number. When the desired time appears, press the SEL key pad once to return to the OPERATOR MENU, and twice to return to the main screen.



System Information (Option E)

(H63 – Option D) This option contains two unit information screens. The first screen displayed indicates the version of software used in the unit.

```
SOFTWARE VERSION
H63 CONTROL
VERSION 1.00
                    SEL
```

Pressing the MENU/SEL key pad a second time will display the B.O.M. and S/N information which is programmed in (Option K) EDIT UNIT I.D. of the service menu.

```
B.O.M.      0H6027E710
S/N         J5045678

                    SEL
```

Auto Heat Time (Option F)

(H63 – Option E) This screen is used to set the time of day in which the heat treatment cycle will start. Move the cursor under the number you wish to change. Press the "+++" key pad to increase the number; press the "- - -" key pad to decrease the number. When the desired time appears, press the SEL key pad once to return to the OPERATOR MENU, and twice to return to the main screen.

```
AUTO HEAT TIME
TIME: 12:00 AM
          – –
<-- -->        +++      – – –    SEL
```

Current Conditions (Option G)

(H63 – Option F) This screen provides the hopper and freezing cylinder temperatures. If the unit is operating in a non-heat treatment mode, the last line of the display is the compressor countdown safety timer. The safety timer prevents the compressor from running more than 11 minutes (other than during the cooling phase of the heat treatment cycle). If the unit is operating in a heat treatment mode, the last line on the display are the phase time and safety time on the heat treatment cycles. Press the SEL key pad once to display the SERVINGS COUNTER SCREEN.

```
            HOPPER      BARREL
              38.5        28.5

TIME C 11:00
```

Non-Heat Treatment Modes

```
            HOPPER      BARREL
              38.5        28.5

TIME P 00:20          TIME S 00:70
```

Heat Treatment Modes

The SERVINGS COUNTER Screen indicates the number of times the draw switch has closed while the unit is in the AUTO mode (since the last brush cleaning).

```
SERVINGS COUNTER
DRAWS
                1
                    SEL
```

Press the SEL key pad once to return to the OPERATOR MENU, and twice to return to the main screen.

Heat Cycle Data (Option H)

(H63 – Option G) The information from the previous heat treatment cycles can be obtained through this screen. The most recent heat treatment cycle data will be shown first; press the "+++" key pad to scroll through the remaining heat cycle displays. If a heat treatment cycle failure should occur, a 2 character message will appear on the second line of the screen. Press the SEL key pad once to return to the OPERATOR MENU, and twice to return to the main screen. Following are the variable messages which could appear in place of the symbol "XX" on the following screens:

HT	Failure in the heating phase.
CL	Failure in the cooling phase.
TT	Failure in meeting total heat treatment cycle time requirement.
ML	Mix low condition.
MO	Mix out condition.
OP	Operator abort.
PF	Power failure. (If a power failure occurs, but the heat treatment cycle does not fail, an asterisk (*) will appear on the third line of the display.)
BO	Beater overload.
HO	High pressure cut-out.
TH	Thermistor probe failure.
PS	Power switch placed in the OFF position.

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

Pressing the left arrow key on any HEAT CYCLE DATA screen which displays a failure message, will cause the FAILURE screen to be displayed. This screen shows the hopper, barrel, and glycol temperatures. The screen will indicate the amount of time the freezer spent in the failed phase of the heat cycle.

HOPPER	BARREL	GLYCOL
151.0	134.5	98.1
PHASE TIME: 1:20		1

Lockout History (Option I)

(H63 – Option H) This option displays a history of the last 20 hardlocks, softlocks, and brush clean dates. Page numbers are displayed in the upper right hand corner. Page one always contains information concerning the most recent failure. Pressing the "+++" key pad cycles through the history pages from the most recent (page 1) to the oldest (page 20). Pressing the "- - -" key cycles through the history pages from the oldest (page 20) to the most recent (page 1).

The second line of the screen displays the date and time each event occurred. The third line of the screen will indicate the reason the lock occurred, or it will indicate that a successful brush cleaning took place.

LOCKOUT HISTORY		1
11/06/96	08:35	
SOFTLOCK ABORT		
+++	– – –	SEL

Following is a list of possible messages that could appear on the LOCKOUT HISTORY screen:

Heat Mode Failure
Cool Mode Failure
Total Time Failure
Mix Low Failure
Mix Out Failure
14 Day Timeout
Power Fail in H/C
Beater Ovld in H/C
HPCO in Heat Cycle
Power Switch Off
Thermistor Failure
L HPR>45F after PF
L BRL>45F after PF
AUTO or STBY Off
No H/C Tried in 24 (hours)
SOFTLOCK ABORT
UNIT BRUSH CLEANED
L HPR>45F after SL
L BRL>45F after SL

Note: Due to multiple reasons for an individual lock, some lockout events will generate more than one LOCKOUT HISTORY page. A page will be generated for each reason.

Pressing the MENU/SEL key will return the screen to the Operator Menu.

Service Menu Access (Option J)

(H63 - Option I) Enter the Service Access Code (8333) to obtain menu options for servicing the equipment. The CAL (<--) and WASH (-->) keys will move the cursor left or right. Pressing the (+++) and AUTO (---) keys will increase and decrease the numbers positioned over the cursor on the LCD. When the correct code has been entered, press the MENU (SEL) key, and the Service Menu options will appear on the LCD. Turn to page 15 for instructions on using service options.

ENTER ACCESS CODE			
8333			
<- - - - - ->		+++	– – – SEL

Standby Mode (Option K)

(H63 – Option J) Your model freezer will maintain the mix in the hopper below 40°F. (4.4°C.) to assure bacteria control. During long "No Sale" periods, it becomes 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 place the unit in the “STANDBY” mode, move the cursor under the word “yes”. When the “SEL” key pad is pressed the command will be executed. Pressing “SEL” again will return you to the main screen. Lift and turn the inner air tube of the assembled air tubes so the pin rests on top of the outer air tube. This will close the hole in the assembled air tubes, preventing mix in the hopper from entering the freezing cylinder.

To exit the “STANDBY” mode and place the unit in “AUTO”, press the word “AUTO” once. When the unit cycles off, the product in the freezing cylinder will be at serving consistency. At this time, adjust the inner air tube so that it rests in the bottom of the notch of the outer air tube. This will allow mix and air to enter the freezing cylinder. Pressing the word “AUTO” again will place the unit in the “OFF” mode.

Service Menu

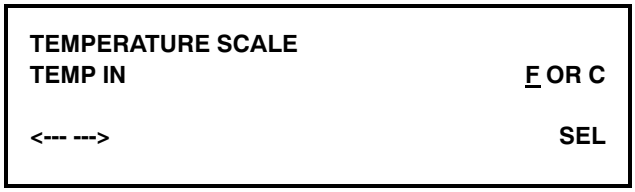
The Service Menu option allows a trained service technician to access and modify critical operating parameters for the machine.

The Service Menu options are listed in the table below:

A	Exit To Op. Menu
B	Temperature Scale
C	Comp. Cycle Time
D	Comp. On Delay
E	Abort Heat Cycle
F	Reset Draw Counter
G	Standby Temp.
H	Hopper Temp.
I	Glycol Temp.
J	Cal. Syrup Time
K	Enter Unit ID
L	Optional Features

Temperature Scale (Option B)

This option allows the service technician to choose the scale in which the machine will display all temperatures.

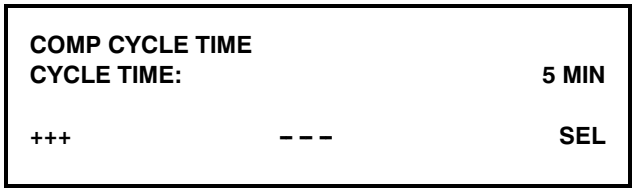


To select the Centigrade scale, press WASH (-->) to move the cursor under the letter “C” on the LCD. To select the Fahrenheit scale, press CAL (<--) to move the cursor under the letter “F”. Pressing the MENU (SEL) key accepts the selected scale and returns the LCD to the Service Menu.

Compressor Cycle Time (Option C)

The Compressor Cycle Time option allows the service technician to set the compressor cycle time. Compressor Cycle Times range from 3-16 minutes for shake. The factory recommended time is 5 minutes.

Press the (+++) and AUTO (---) keys to increase or decrease the cycle time by one minute. Pressing the MENU (SEL) key accepts the setting and returns to the Service Menu.

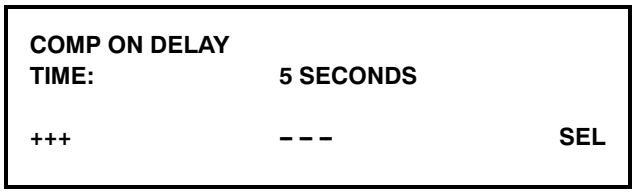


Compressor On Delay (Option D)

This option allows the service technician to adjust the compressor on delay. When the unit is operating in the AUTO mode, this setpoint delays the start of the compressor after the beater motor has started.

Press the (+++) and AUTO (---) keys to increase and decrease the time delay by 1 second. Press the MENU (SEL) key to accept the setting and to return to the Service Menu.

The factory recommended setting is 5 seconds.



Abort Heat Cycle (Option E)

This option allows the service technician to abort the Heat Treatment Cycle. The screen below will be displayed upon selecting this option. Press the CAL (<--) key to place the cursor under the “YES” selection. Press the WASH (-->) key to place the cursor under the “NO” selection. Press the MENU (SEL) key to accept the selection and to return to the Service Menu.

```
ABORT HEAT CYCLE
ABORT          YES          NO

<- - - - - ->               SEL
```

Reset Draw Counter (Option F)

This option allows the technician to reset the draw counter to zero. The following screen is shown upon selecting this option.

```
RESET DRAW COUNTER
RESET          YES          NO

<- - - - - ->               SEL
```

Pressing the CAL(<--) key will place the cursor under the “YES” selection. Pressing the WASH (-->) key will place the cursor under the “NO” selection. Pressing the MENU/SEL key with the cursor under the “YES” selection will reset the draw count to zero, shown on the Servings Counter screen, and return the display to the Service Menu. Pressing the MENU/SEL key with the cursor under the “NO” selection has no affect on the machine and returns the display to the Service Menu.

Standby Temp (Option G)

This option allows the service technician to adjust the freezing cylinder temperature at which the compressor will activate in the STANDBY mode. In STANDBY, the machine will cycle the compressor (and beater) on if the temperature of the product in the freezing cylinder rises above the setpoint. The compressor will cycle off when the temperature of the product in the freezing cylinder falls 4° F. (2 ° C.) or more below the setpoint.

Pressing the (+++) and AUTO (---) keys increase and decrease the temperature by 1/2°F. Pressing the MENU (SEL) key will accept the setting and return to the Service Menu.

```
STANDBY TEMP
CUT IN AT:          30.5

+++                 - - -          SEL
```

Hopper Temp (Option H)

This option allows the service technician to adjust the hopper temperature by which the glycol pump is controlled when the machine is operating in the AUTO and STANDBY modes.

This setpoint is used to control the glycol pump in both the STANDBY and the AUTO modes of operation. In the STANDBY mode, if the hopper product temperature rises above the setpoint temperature, the glycol pump is activated. When the temperature in the hopper falls 2°F. or more below the setpoint temperature, the glycol pump turns off. During the AUTO mode, if the hopper product temperature rises above the setpoint, the internal glycol pump timer controls the glycol pump operation. (See “Timers”.) When the hopper product temperature falls 2°F. or more below the setpoint, the glycol pump turns off.

Pressing the (+++) and the AUTO (---) keys increase and decrease the temperature by 1/2°F. Press the MENU/SEL key to accept the setting and return to the Service Menu.

```
HOPPER TEMP
CUT IN AT:          40.0
CURRENT:            41.0
                    +++        - - -    SEL
```

Glycol Temp (Option I)

The Glycol Temp option allows the service technician to adjust the glycol temperatures used to control the glycol heater in the HEAT and HOLD phases of the Heat Treatment Cycle.

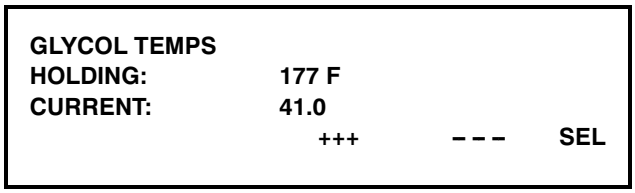
The Glycol Temp option controls the heater in the heating phase of the Heat mode of operation. When the glycol temperature falls 6°F. or more below the setpoint, the glycol heater is activated. When the glycol temperature rises above the setpoint, the heater is de-activated. The factory glycol temperature setting is 178°F. (81°C.)

```
GLYCOL TEMPS
HEATING:            178 F
CURRENT:            41.0
                    +++        - - -    SEL
```

Press the (+++) or AUTO (---) settings to increase and decrease temperature by 1/2°F. Pressing the MENU (SEL) key will cause the Glycol Temp Holding Screen to appear on the LCD.

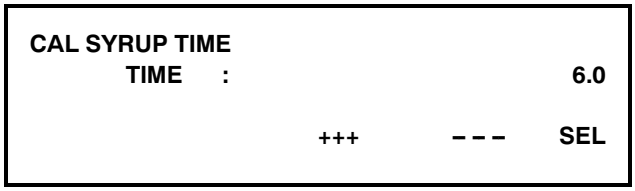
The Glycol Temp Holding setpoint controls the glycol heater in the HOLDING phase of the Heat Treatment Cycle. When the glycol temperature is 6°F. (3°C.) or more below the setpoint, the glycol heater is activated. When the glycol temperature rises above the setpoint, the heater is de-activated.

Pressing the (+++) and AUTO (---) keys will increase and decrease the temperature by 1/2°F. Press the MENU (SEL) key to accept the settings and to return to the Service Menu.



Cal Syrup Time (Option J)

This option allows the service technician to adjust the Cal Syrup Time used to control syrups during the calibration mode of operation. Press the (+++) and AUTO (---) keys to increase and decrease the syrup calibration time by 1.0 second. Pressing the MENU (SEL) key will accept the setting and return the LCD to the Service Menu.

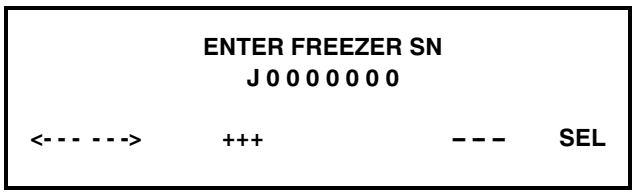


Enter Unit ID (Option K)

(H63 Option J) This option allows the service technician to enter the factory Bill of Material (B.O.M.) code used to assemble the machine, the freezer Serial Number and the Store Identification Number.

Press the CAL (<--) and WASH (-->) keys to move the cursor left or right. Press the (+++) and AUTO (---) keys to increase and decrease the characters on the display. When the correct freezer B.O.M. number has been entered, press MENU (SEL) to advance to the next screen.

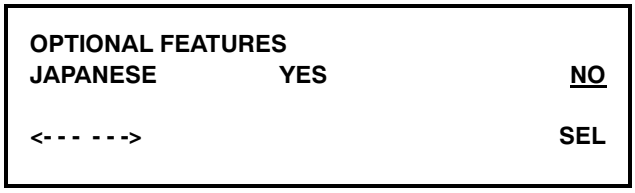
Enter the freezer serial number in the same manner as the B.O.M. number was entered. Press MENU (SEL) to advance to the next screen.



Optional Features (Option L)

This option allows the service technician to select special operating features. Currently, the only option set installed is for Japanese operation. This feature eliminates the spinner from operating in the WASH mode.

The following screen is displayed:



Pressing the CAL (<--) key will move the cursor under the word YES to enable the Japanese feature when the SEL key is pressed. Pressing the WASH (--->) key will move the cursor under the word NO to disable the Japanese feature when the SEL key is pressed. If more than one feature were present, pressing the SEL key would bring the next feature to the screen with the previous options for enabling it. Pressing the SEL key at the last Feature page will return the screen to the Service Menu.

Heat Treatment Cycle

The function of the Heat Treatment Cycle is to quickly raise the temperature of the mix in the freezing cylinder(s) and hopper(s) high enough to destroy bacteria. When this has been accomplished, the temperatures must quickly be returned to a temperature low enough to retard spoilage.

The Heat Treatment Cycle must be completed successfully at least once every 24 hours or the freezer will automatically lock itself in the STANDBY mode.

The Heat Treatment Cycle may be started automatically according to the AUTO HEAT CYCLE TIME.

IMPORTANT: THE FREEZER MUST BE OPERATING IN EITHER THE STANDBY OR AUTO MODE BEFORE A HEAT TREATMENT CYCLE CAN BE STARTED.

There are three phases in a Heat Treatment Cycle:

1. Heat
2. Hold
3. Cool

The Heat Phase

During this phase, the temperatures of the product in the freezing cylinder and hopper are raised over 151°F. (66°C.) in 90 minutes or less.

The Heat Phase Timer “times out” the maximum allowable amount of time the unit can remain in the HEAT phase of the Heat Treatment Cycle. If the timer exceeds 90 minutes, the unit will lock-out.

MODE:	**HEAT**
PHASE:	**HEAT**
HOPPER TEMP	**41.0 F**
BRUSH CLEAN ON	**03/12**

The Hold Phase

During the HOLD phase, the temperature of the product is “held” over 151°F. (66°C.) for a minimum of 30 minutes to ensure the destruction of all harmful bacteria in the product.

The Hold Phase Timer “times out” 30 minutes as long as all freezing cylinder and hopper temperatures remain above 151°F. (66°C.) for the duration of the HOLD phase.

The Heat Soak Timer prevents the HOLD phase from entering the next COOL phase of the cycle until the 30 minutes is satisfied and until the total time of the HEAT and HOLD cycles combined is greater than 115 minutes.

MODE:	**HEAT**
PHASE:	**HOLD**
HOPPER TEMP	**153.0 F**
BRUSH CLEAN ON	**03/12**

The Cool Phase

During the COOL phase, the product in the freezing cylinder and the hopper are lowered to 45°F. (7°C.) or less. The unit must complete this phase in less than 120 minutes.

The COOL Phase Timer measures the maximum allowable time the unit can remain in the COOL phase. If the timer exceeds 120 minutes, the unit will lock-out.

MODE:	**HEAT**
PHASE:	**COOL**
HOPPER TEMP	**153.0 F**
BRUSH CLEAN ON	**03/12**

The Heat Cycle TT (Total Time) Timer “times out” the maximum allowable time the unit can remain in the Heat Treatment Cycle (4 hours). If the timer exceeds four hours, the unit will lock-out. This timer is a combination of the HEAT, HOLD, and COOL Phase Times.

When the entire Heat Treatment Cycle has been completed, the normal display will appear, indicating that the machine is operating in the STANDBY mode.

MODE:	**STANDBY**
HOPPER TEMP	**40.0 F**
BRUSH CLEAN ON	**03/12**

Heat Treatment Graph

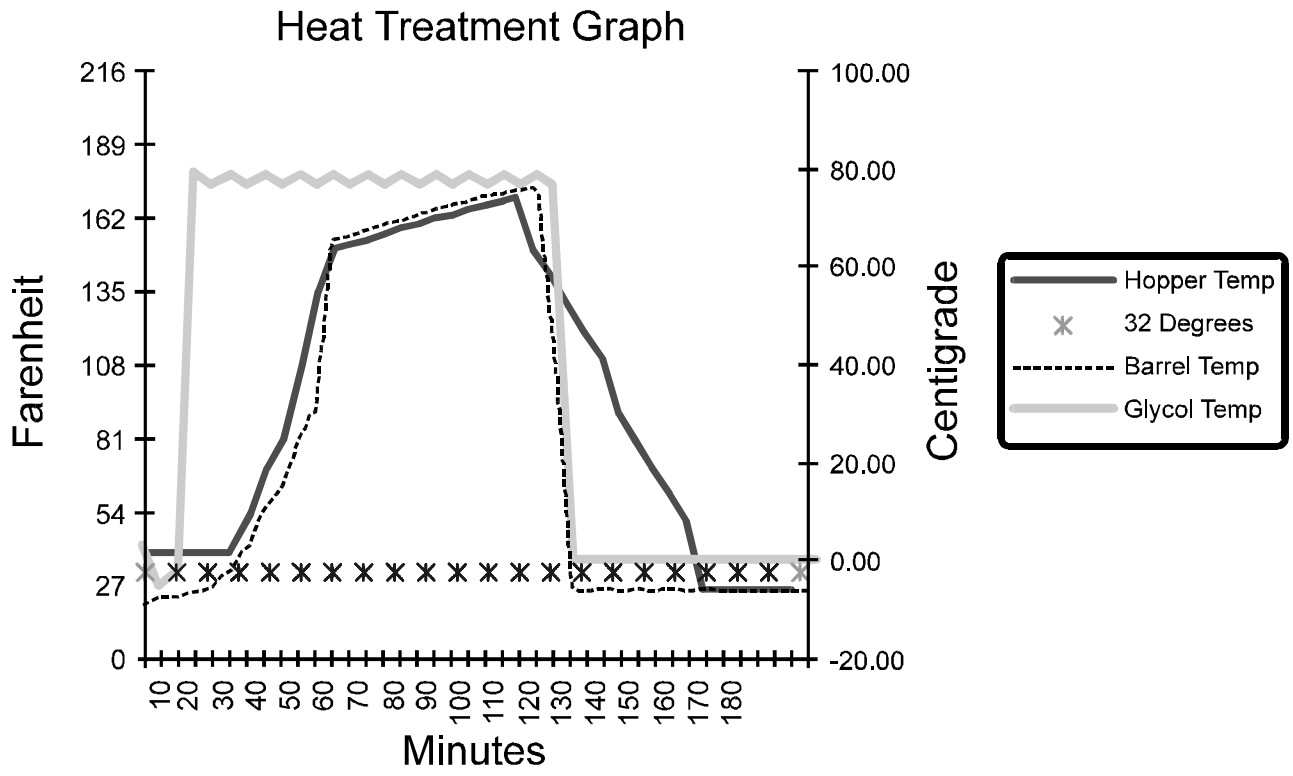
During the HEAT and HOLD phases, the glycol is heated by the use of a glycol heater. During the COOL phase, the glycol and freezing cylinder product are refrigerated by the use of the machine's main refrigeration system.

At the start of the HEAT phase, the glycol heater begins to overcome the cold freezing cylinder temperature and the glycol raises slowly to 178°F. (81°C.). When the glycol drifts downward in temperature, the glycol heater activates.

The purpose of the HEAT phase is to raise the product temperature above 151°F. (66°C.) within 90 minutes. To satisfy the control system, the product must actually reach 151.5°F. (66°C.). This requirement ensures that the 151°F (66°C.) requirement has been met. Health laws require these parameters to be 151°F. (66°C.) in 90 minutes; however, the actual amount of time the freezer takes to accomplish this requirement is closer to 60 minutes.

Once the HEAT Phase is complete, it is necessary to complete the Heat Soak Timer. From the time the Heat Phase is started, 115 minutes must transpire before the cool phase may enter. Due to the implementation of the Heat Soak Timer, the Heat Cycle Data Screen (Operator Menu - Option H) will now refer to the HOLD phase as the "OVER" phase.)

While in the COOL phase, the beater motor and the main refrigeration system operate continuously until the machine first cycles off. For the remainder of the COOL phase, the beater motor and compressor operate in the STANDBY mode. The timed cycle allows the beater motor to stop for two minutes and then run for six seconds.



Freezer Lock-Out

To comply with health codes, Heat Treatment freezers MUST complete a Heat Treatment Cycle every 24 hours, and MUST be brush cleaned every 14 days. Brush cleaning is the normal disassembly and cleaning procedure found in the Operator's Manual. Failure to follow these guidelines will cause the control to "lock" the freezer out of the AUTO mode of operation.

If the Heat Treatment Cycle fails, the LCD will display a failure message and return the freezer to the STANDBY mode. There are two types of freezer lock-outs: a SOFT LOCK and a HARD LOCK.

HEAT TREAT CYCLE
FAILURE
FREEZER LOCKED
PRESS SEL KEY

A "lock" is defined as a special STANDBY mode of operation which does not allow the machine to operate in the AUTO mode. When a soft lock occurs, the operator has the option of brush cleaning the unit or starting the Heat Treatment Cycle. If the operator selects the brush clean option, the unit will hard lock. (See the hard lock description on the following page.)

A soft lock condition occurs when the machine has not entered a Heat Treatment Cycle within 24 hours of the start of the last successful Heat Treatment Cycle. Once the soft lock has occurred, the following screen is displayed with the third line indicating the reason the machine did not enter the HEAT CYCLE (see descriptions below).

Note: When a soft lock occurs, the four mode LED's will flash.

NO HEAT CYCLE START
BECAUSE
NO HEAT CYCLE TRIED
PRESS SEL KEY

Reasons For Soft Lock

No Heat Cycle Tried

If the Auto Heat Time is set to attempt a Heat Treatment Cycle more than 25 hours after the start of the last successful cycle, the unit will soft lock.

Power Switch Off

If the power switch is in the OFF position and the Auto Heat Time passes, the unit will soft lock when the power switch is placed in the ON position. If either the freezing cylinder or the hopper temperatures rise above 45°F. (7°C.), the unit will hard lock.

Auto or Standby Off

In order for the Auto Heat Treatment Cycle to start, the unit must be in either the STANDBY or the AUTO mode of operation. If not, the unit will soft lock. If the freezing cylinder or the hopper temperature rises above 45°F., the unit will hard lock.

If a mix out condition is present , the machine will not attempt a Heat Treatment Cycle and will soft lock.

If the soft lock screen is displayed, press MENU (SEL), to access the screen illustrated below.

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

If the reason for the soft lock has been corrected, press the AUTO (---) key to initiate a Heat Treatment Cycle. Pressing the WASH (-->) will hard lock the machine to allow brush cleaning.

Hard Lock

The freezer will hard lock anytime the Heat Treatment cycle has failed. If the power switch is placed in the OFF position, or a mix out condition occurs during the Heat Treatment Cycle, the machine will hard lock. Certain fault conditions may also cause the Heat Treatment Cycle to fail.

When the machine hard locks, the screen below will be displayed and the four mode LED's will flash. Press MENU (SEL) for further instructions.

HEAT TREAT CYCLE
FAILURE
FREEZER LOCKED
PRESS SEL KEY

After pressing the MENU (SEL) key this screen will appear. Press the WASH (-->) key to continue.

NO AUTO OPERATION **ALLOWED UNTIL** **BRUSH CLEANING** **PRESS WASH KEY**

After pressing the WASH (-->) key, the screen below will appear. The first line indicates the mode of operation for the machine. The second line indicates the mix level condition for the machine. The third line displays the hopper temperatures.

MODE:	**OFF**
HOPPER TEMP	**152.0 F**
FREEZER LOCKED	

If the machine hard locks and the operator attempts to enter the AUTO mode, the machine will enter the STANDBY mode and display the screen below.

MODE:	**STANDBY**
HOPPER TEMP	**52.0 F**
FREEZER LOCKED	

Lockout History

Listed below are explanations for messages that may appear on a lockout history display.

Heat Mode Failure: The machine has failed to reach 151.5°F (66°C) while in the Heat Phase of the Heat Treatment Cycle. The screen will indicate that the machine is locked from AUTO operation. However, the machine will be operating in the STANDBY position.

Cool Mode Failure: After having completed the HEAT, HOLD, and SOAK timers, the machine failed to cool the product to 45°F (7°C).

Total Time Failure: The machine has completed the Heat Phase of the Heat Treatment Cycle. However, during the Hold Phase or the Cool Phase, too much time has been taken to complete the entire cycle, and the machine has failed. Four hours is the maximum time allowed for the overall Heat Cycle.

Mix Low Failure: This failure can occur during the Heat or Cool Phases if the machine is unable to complete one of these phases while a mix low condition exists.

Mix Out Failure: This failure can occur any time during the Heat Treatment Cycle if a mix out condition is detected while the cycle is in process.

14 Day Time Out: This failure occurs when the machine has not realized a successful brush cleaning within the previous 14 days.

Power Failure in the Heat Cycle: This failure occurs when the machine experiences a power failure and is unable to achieve 151.5°F (66°C) product temperature in all product zones within 90 minutes.

Beater Overload in the Heat Cycle: This failure occurs if the machine experiences a beater overload at any time during the Heat Cycle. A Beater Overload is also a Fault. Therefore, the fault must be corrected, and then the instructions on the LCD may be carried out.

High Pressure Cut Out in the Heat Cycle: This failure occurs any time there is a high pressure condition experienced with the main refrigeration system. This condition is also considered a Fault. Therefore, once the high pressure condition subsides and the Fault is cleared, the instructions on the LCD may be carried out.

Power Switch Off: This failure occurs any time the power switch is turned off while the machine is in any phase of the Heat Cycle.

Thermistor Failure: There are three thermistor probes, one barrel (freezing cylinder), one hopper, and one glycol probe. If a barrel or hopper probe is faulty, then the machine enters the OFF mode and cannot be operated in STANDBY. **Note:** Thermistor failures are Faults and will have to be cleared.

Hopper is Greater than 45°F (7°C) after the machine has experienced a power interrupt: This failure can occur only when the machine has first been operating long enough to have reached product zones below 45°F (7°C) **,** a power interrupt occurs, the interrupt is long enough to allow the temperature to rise back above 45°F (7°C), and the power returns. This condition is also considered a Fault.

Note: The explanation given in this paragraph applies for excessive barrel (freezing cylinder) temperatures (i.e., BRL > 45F after PF).

Auto or Standby Off: This failure originates as a Soft Lock. During the time the machine is still Soft Locked, the machine can be placed into a Heat Cycle by pressing AUTO. However, if any of the product zone temperatures rise above 45°F (7°C) during the Soft Lock, then the machine Hard Locks.

No Heat Cycle Tried in the Last 24 Hours: This failure originates as a Soft Lock. During the time the machine is still Soft Locked, the machine can be placed into a Heat Cycle by pressing AUTO. However, if any of the product zone temperatures rise above 45°F (7°C) during the Soft Lock, then the machine Hard Locks.

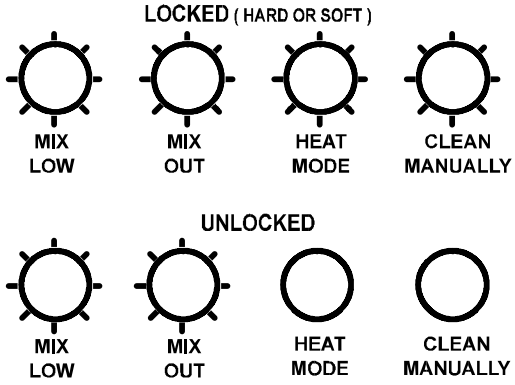
Soft Lock Abort: This message appears when a Soft Lock has occurred, and the operator has chosen to abort the Soft Lock by pressing the WASH selector. Pressing the WASH selector at this time causes the machine to Hard Lock.

Unit Brush Cleaned: This message will reveal the date and time the machine experienced the last successful brush cleaning.

Hopper over 45°F (7°C) while having experienced a Soft Lock: When this occurs, the machine enters a Hard Lock.

Note: The information in this paragraph applies for excessive barrel (freezing cylinder) temperatures (i.e., BRL > 45F after SL).

Important: The operator must evaluate the condition of lights and screen messages before performing opening procedures. If all four LED's on the front of the unit are lit, the unit is locked.



Power Interrupt

Whenever a power failure is detected by the control, all operating modes and setpoints are stored in the battery backed memory. Having been in the AUTO, STANDBY, or any of the HEAT mode phases, recovery from a power failure will return the machine to its previous mode of operation. If the power failure has occurred, the Safety Time Out screen will display a “Power Failure” message on the first line.

In addition, a power interrupt message will appear on the Fault Description Screen (Operator Menu, Option B); this message must be cleared.

If the freezing cylinder or hopper temperature rise above 45°F. (7°C.) during a power failure, the machine will hard lock when power is restored.

14 Day Brush Clean

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

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

Note: These criteria must be met simultaneously. These criteria will be met when the unit is properly brush cleaned according to the Taylor Operator’s Manual.

A successful brush clean is indicated when the “Brush Clean Date” message or the “Freezer Locked” message disappears from the LCD when the power switch is placed in the ON position.

A new brush clean date will be calculated when the AUTO or STANDBY mode is first entered.

Note: The Manual Clean LED will begin flashing 24 hours prior to a 14 day lock-out. Two of the four mode lights will extinguish when the unit is unlocked.

Timers

Two Minute Stir Cycle

If the machine is in the STANDBY mode, the beater motor will turn on for six seconds every two minutes.

If the machine is in the AUTO mode and the hopper is calling for refrigeration, the beater motor should run once every two minutes. If the freezing cylinder product viscosity has been satisfied during this beater run time, the beater motor will turn off. Otherwise, the compressor will also turn on and run until the freezing cylinder product viscosity has been satisfied. During the Heat Treatment Cycle the beater motor runs continuously until the machine cycles off.

Glycol Pump Timer

If the machine is operating in the AUTO mode, and the hopper requires refrigeration, the glycol pump will operate one minute, discontinue for two minutes, then operate again for one minute. This pattern continues until hopper refrigeration is no longer required.

Manual Clean Indicator

The Manual Clean LED will begin flashing 24 hours prior to a 14 day lock-out.

24 Hour Last Heat Cycle Event

If the machine runs longer than 24 hours without a successful Heat Treatment Cycle, the machine will lock-out.

14 Day Timer

If the machine runs longer than 14 days without a successful brush cleaning, the machine will lock-out.

Heat Phase Timer

The Heat Phase Timer times out the maximum allowable time the unit can be in the Heat Phase of the Heat Treatment Cycle (90 minutes). If the timer exceeds 90 minutes, the unit will lock-out.

Hold Phase Timer

This timer assures that product in the freezing cylinder and the hopper are held above 151°F. (66°C.) for a minimum of 30 *continuous* minutes.

Heat Soak Timer

The Heat Soak Timer prevents the HOLD phase from entering the COOL phase until the HOLD phase requirements are met and the total time of the HEAT and HOLD phases is greater than 115 minutes.

Cool Phase Timer

The Cool Phase Timer times out the maximum allowable time the unit can remain in the COOL phase of the Heat Treatment Cycle (120 minutes). If the timer exceeds 120 minutes, the unit will lock-out.

Heat Cycle Timer

Times out the maximum allowable time the unit can be in the heat mode, which is 4 hours. Should the timer exceed 4 hours, the unit will lock.

Safety Timeout

Once power is applied to the unit, a 60 second timer places the unit in an “IDLE” state. The tone is turned on in 1/2 second intervals, and a “Safety Timeout” message appears on the LCD. This timer can be aborted by pressing any key.

Spinner Off Timer

This timer ensures that the spinner will run for two seconds after each closing of the draw valve, or after the Rinse Time has expired during a rinse cycle.

Compressor On Timer

This timer monitors the time the compressor runs while the freezing cylinder temperature is lower than 45°F. When the 11 minutes has counted down (in the AUTO mode), if the shake temperature is not 29°F. (-2C.) or below, a fault is generated, the tone sounds and the compressor is turned off. The fault must be cleared. The compressor will turn on again with the next compressor cycle time. Whenever the draw switch is closed, the Compressor On Timer will be reset. In the STANDBY mode, when 11 minutes is timed out, a fault is generated, the tone sounds and the compressor is allowed to run until the STANDBY temperature setpoint is satisfied.

Brush Clean Timer

This timer times out 5 minutes when all conditions for a successful brush cleaning are met.

Beater Stir Cycles

If any hopper is above cut-in temperature, beater stir cycle timers have been activated.

Standby

When the unit is in the STANDBY mode, the stir cycle must be activated in order to keep an ice build-up from forming on the walls of the freezing cylinder. The beater stir cycle timer counts down two minutes (in seconds) and then activates the beater motor for six seconds. After the stir cycle, the process will repeat itself; the timer will count down two minutes, and the beater will run for six seconds.

Auto

When the unit is in the AUTO mode, the compressor and the beater motor must operate periodically to keep the glycol cold for hopper refrigeration. The beater stir cycle timer will count down two minutes from the interval (cycle off) time. The compressor and beater motor will then operate for six seconds if the product is of serving viscosity. If the product is not of serving viscosity, the compressor and beater motor will operate until the product is servable or until the 11 minutes on the compressor safety timer have elapsed.

Note: Both the AUTO and STANDBY stir cycles will continue until the hopper has reached setpoint.

The stir cycles will occur whether or not the product in the freezing cylinder is of serving viscosity.

Glycol System

The following information describes the glycol system. For further understanding, see the Glycol Path diagram at the end of this chapter.

The glycol system serves two purposes. During the STANDBY and AUTO modes, the glycol is used to cool the mix hoppers. During the HEAT mode, the glycol is used to heat the mix in the hopper and freezing cylinder.

Glycol is a heat transfer medium made up of 50% ethylene glycol and 50% distilled water.

Standby and Auto

During a **refrigeration** mode, the freezing cylinders are cooled using refrigerant, and the product is controlled by viscosity during the AUTO mode and by temperature during the STANDBY mode.

The hoppers are cooled in the following manner:

When a hopper temperature reaches the cut-in point, the glycol pump and beater stir cycle are activated.

The glycol lines go (in order) through the heater*, around the freezing cylinder, and then to the hopper. In other words, the glycol is cooled directly by the freezing cylinder walls and is then pumped to the hoppers to cool the mix.

*The heater is OFF during refrigeration modes.

There is an agitator paddle in the hopper which is used to distribute the heat or cold evenly throughout the mix so the mix does not freeze or burn on the sides of the hopper. It runs continuously when the freezer is in the AUTO, STANDBY or HEAT mode. The agitator is driven by a motor and belt.

The Heat Treatment Cycle

During the heating phase the heater is activated. For shake application, the beater stir will remain ON until the compressor cycles off.

During the HEAT phase, all refrigeration is cancelled, and the glycol will heat the freezing cylinder and the hopper to the set temperatures.

WARNING: Ethylene glycol is very harmful to your health. Swallowing glycol is fatal. Refer to M.S.D.S. Guidelines.

Note: Glycol should be mixed with distilled water in a ratio of 50% glycol and 50% distilled water.

Installing the Glycol Mixture

Step 1
Attach a hose (capable of depressing the access valve) to the 1/4" flare fitting located beneath the accumulator tank. Remove the cap from the accumulator and place the opposite end of the hose into the accumulator tank.

Step 2
Using a pair of pliers, squeeze the tube located between the access fitting and the tube that leads to the bottom of the glycol accumulator tank.

Step 3
Fill the accumulator tank 2/3 full.

Step 4
Remove the necessary panels to expose the interface board. Locate the test pins marked, "W2, W3, W4, and W5". Place a two pin jumper on the test pins marked "W4". The jumper will activate the glycol pump. The glycol existing in the accumulator will be pumped through the glycol system.

Step 5
Monitor the level of glycol mixture in the tank and to be sure all air pockets are removed, continue to add more as necessary to maintain a 2/3 full level. Allow the unit to operate for a short period of time. Once the service hose starts to empty glycol back into the accumulator tank, the system is properly filled. Remove the jumper from the pins marked, "W4". Release the pliers.

Step 6
Remove the service hose and replace the cap on the 1/4" flare fitting. Replace the accumulator tank cap.

Step 7
Check for glycol mixture leaks.

Replenishing the Glycol Mixture

Note: If the accumulator tank is empty, follow the steps outlined in "Installing the Glycol Mixture". If the unit needs replenishing, complete the following steps:

Step 1
Remove the cap from the glycol accumulator tank.

Step 2
Replenish the glycol mixture until the tank is 2/3 full.

Step 3
Replace the cap on the accumulator.

Step 4
Check for glycol mixture leaks.

Draining the Glycol Mixture

Step 1
Attach a service hose (capable of depressing the access valve) to the 1/4" access fitting. Allow the opposite end of the hose to rest in an empty bucket.

Step 2
Using a pair of pliers, squeeze the tube located between the access fitting and the tube leading to the bottom of the glycol accumulator tank.

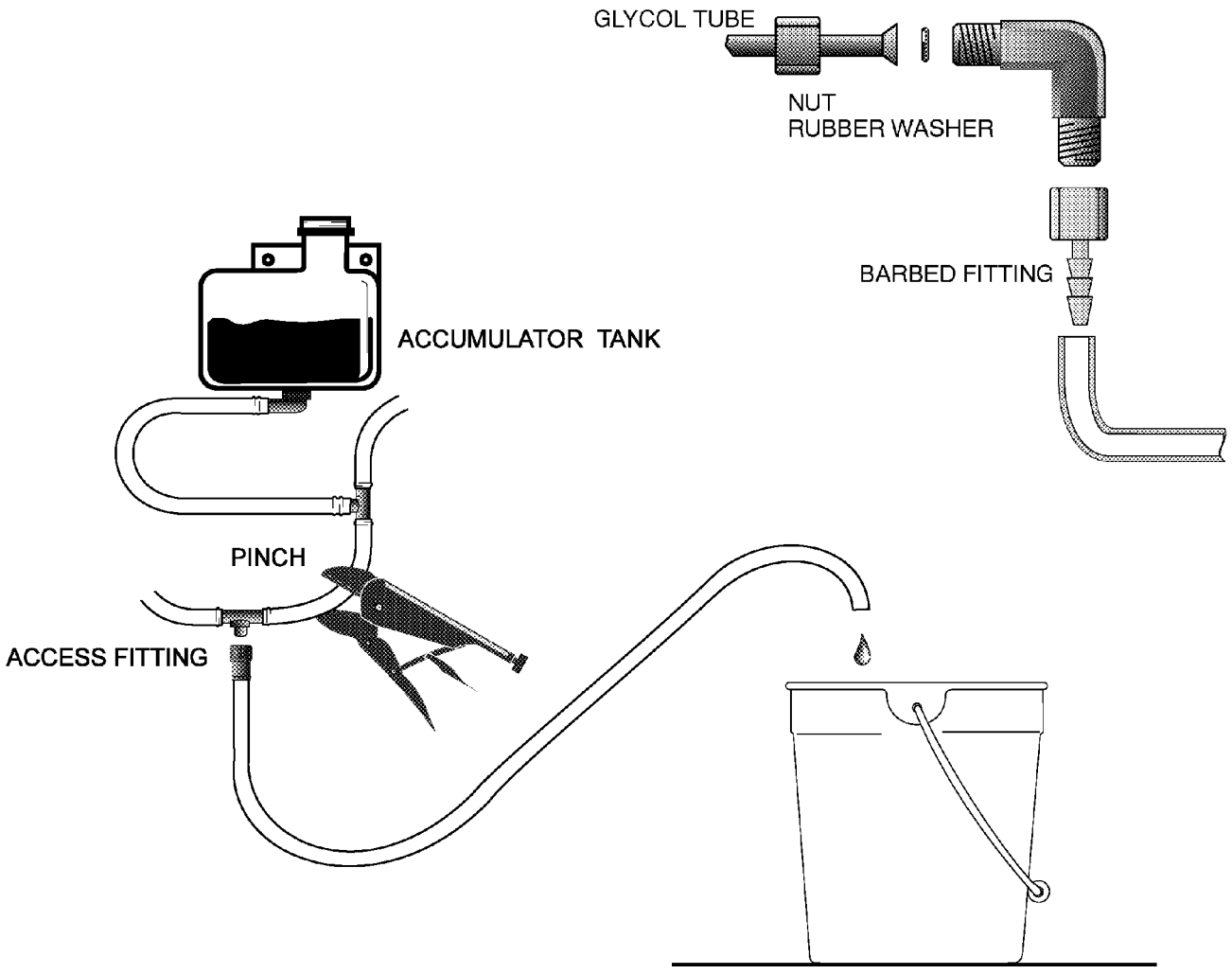
Step 3
Remove the cap from the top of the accumulator tank. The glycol will begin to flow into the bucket.

Step 4
Remove the necessary panels to expose the interface board. Locate the test pins marked, "W2, W3, W4, and W5". Place a two pin jumper on the test pins marked, "W4".

Step 5
Once the glycol mixture stops flowing into the bucket, replace the cap on the glycol accumulator tank.

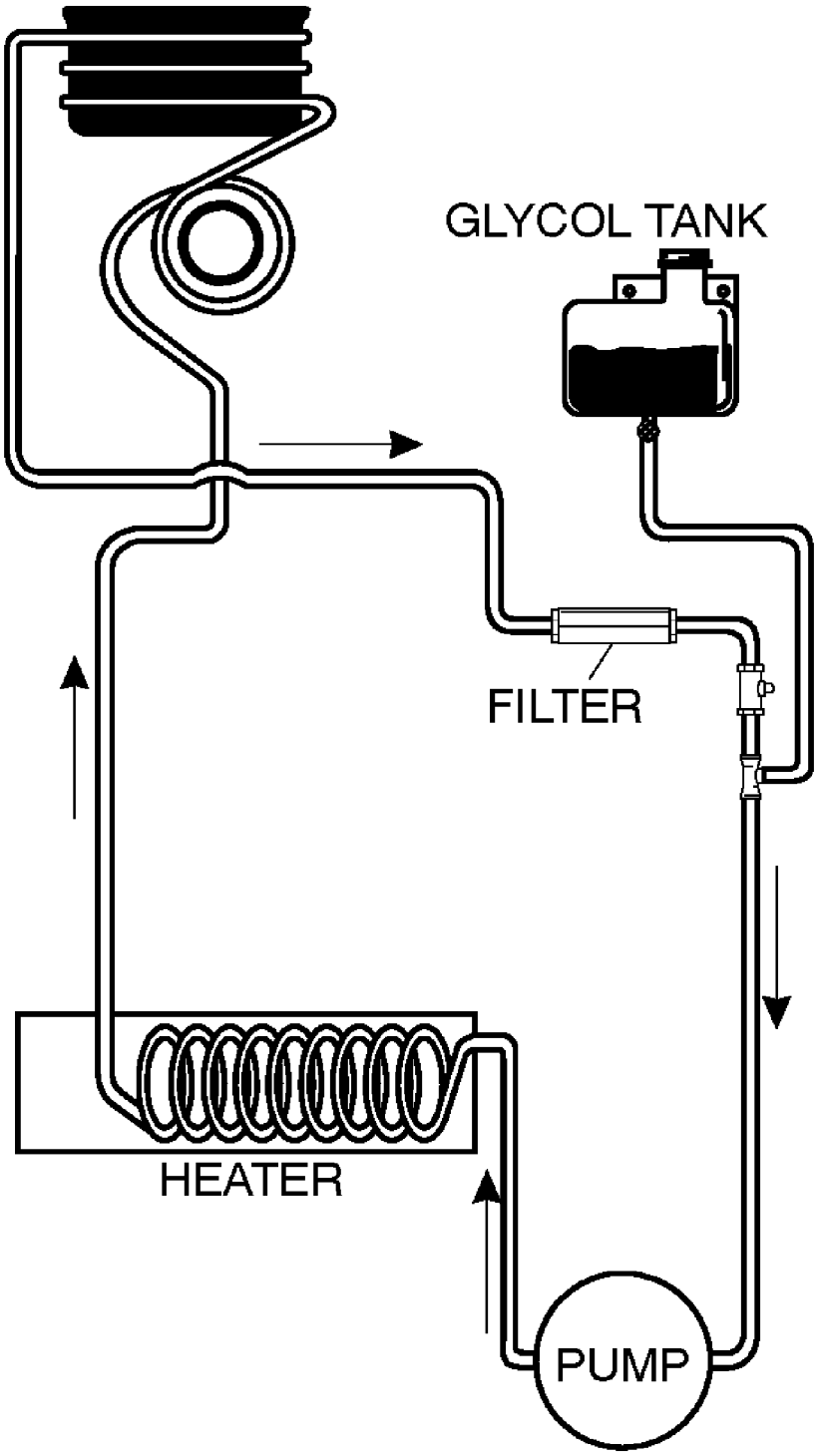
Step 6
Disconnect the outlet line from the glycol pump. Blow air or nitrogen through the outlet line from the glycol pump. This procedure will fully drain the system.

Step 7
Once the system is fully drained, remove the service hose and replace the access cap. Replace the outlet line of the glycol pump to proper position. Remove the pliers.



Glycol Path

(Rear View)



Consistency Control

Operation/Function

The thickness (and indirectly the temperature) of the shake is controlled by a sensing device called the Consistency Control. A temperature control thermostat is not used. The refrigeration unit is activated by the thickness of the product in the freezing cylinder.

A rotor is set inside the beater to sense the thickness of the product. Its rear bearing is set in the beater drive shaft and front bearing through the center of the freezer door. When the beater rotates, the thickness of the product forces the rotor to turn clockwise (when viewed from the operator end).

This action is transmitted into an arm and hub assembly, which contains a switch that starts or stops the compressor and an adjustable spring that determines the thickness of the product.

As the product freezes, it becomes thicker and the rotor turns clockwise, working against the spring tension. When the product becomes thick enough to overcome the spring tension, the operating arm presses the micro-type switch into the “OFF” position.

As the product in the freezing cylinder gets thinner (warms up), either due to its absorbing heat or due to warm mix entering the cylinder, the spring tension will overcome the force against the rotor. The rotor will then turn counterclockwise and the actuating assembly will move away from the switch arm, allowing the switch to move into the “ON” position.

The beater motor must be running to monitor the thickness of the product and to determine whether refrigeration is needed. When drawing product, the beater motor is running and the product thickness is being monitored. If no product is drawn for long periods of time, a timer activates the beater motor every five minutes for approximately six seconds. During this time, product thickness is evaluated. If refrigeration is required, the compressor will start. If not, the beater will stop after the forced operation.

Adjusting The Consistency Control

For a thicker product, adjust the consistency control by turning the adjustment knob clockwise (increasing spring tension). For thinner product, turn the knob counterclockwise (decreasing spring tension).

Air/Syrup Delivery System (H60 Only)

Syrup Component Functions

The spinner automatically blends syrup into product as it is dispensed. Each flavor has a separate system which requires regular cleaning. An air compressor supplies air pressure to the pressure regulator.

The system for each flavor is composed of the following components:

1. Pressure regulator
2. Pressure line assembly
3. Sealed type stainless steel syrup tank
4. Syrup line to solenoid valve assembly
5. Solenoid valve
6. Syrup line from solenoid valve to spinner housing
7. Flavor selector switch

The **pressure regulator** controls the air pressure (which is produced by a single central air compressor) to obtain the desired syrup flow.

The **pressure line assembly** delivers the regulated air pressure to the syrup tank.

The **syrup tank** provides syrup storage and may be removed for cleaning by disconnecting the air and syrup line quick disconnects.

The **syrup line assembly to solenoid valve assembly** delivers the metered syrup to the solenoid valve. The solenoid valve is an electrical valve.

Flavor Selector Keypad

Four shake flavors are offered from the Model H60 freezer: chocolate, strawberry, vanilla (unflavored product), and an optional flavor. Press the desired shake flavor keypad and open the draw valve. Product and syrup will automatically blend together to produce the chosen flavor.

"Rinse"

At the completion of a shake draw, press the word "RINSE" to rinse any excess syrup and mix from the spinner housing.

Syrup System

Two main objectives in your opening procedures must be to:

1. Fill the syrup tanks.
2. Calibrate the syrup flow.

This must be checked **daily** to insure the high quality shake you desire.

Discard syrup weekly and flush syrup lines at least once a week. This will prevent syrup from clogging the lines and will break the bacteria chain.

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

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

The syrup tanks are located in the lower front syrup compartment. The air lines and syrup lines are color spiral wrapped. Be sure to match the color wrapped air and syrup line to the correct syrup flavor.

Step 1
Filling the syrup tanks: Pull back on the collar of the quick disconnect fitting for the air lines. Allow the air pressure to dissipate from the syrup tanks. Disconnect the syrup lines.

CAUTION: Make sure you disengage the air line before you disengage the syrup line!

Remove the syrup tank from the compartment. Remove the syrup tank lid by lifting up on the locking lever. Fill the syrup tank with syrup to the indicating mark on the label. **IMPORTANT: Do not overfill the tanks.**

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

Repeat this step for all syrup tanks.

Step 2
Calibrating the syrup flow: Calibrating the syrup flow must be done on a daily basis. It is vital that the correct amount of syrup be incorporated into the mix to obtain a quality shake. The cause of too thin shakes is often too much syrup. The cause of too thick shakes is often too little syrup.

To determine the rate of syrup flow, you will need a calibrating cup indicating fluid ounces. The proper rate of syrup flow is 1 fluid ounce (29.6 ml.) of syrup in **six seconds.** Once this

rate is set, the correct amount of syrup will be blended with the shake base regardless of the size of shake served.

Press the corresponding flavor button for the syrup being calibrated.

Hold an empty cup beneath the spinner housing. Press the word “CAL” (calibrate). A message will appear on the LCD.

SYRUP SYSTEM PRESS		
AUTO	– – –	START CAL
WASH	– – –	CONTINUOUS
CAL	– – –	STOP

Press the word “WASH”. This will bleed any air pockets from the syrup line.

When a steady stream of syrup is flowing into the cup, press the word “CAL” to stop the syrup flow. Discard the syrup in the cup.

Hold the calibration cup under the spinner housing. Press the word “CAL”. Press the word “AUTO” to check the rate of syrup flow. After six seconds the flow of syrup will automatically stop. If the amount of syrup received is 1 fluid ounce (29.6 ml.) the syrup is properly calibrated.

Step 3
Adjusting the syrup pressure. If the amount of syrup received is less than 1 fluid ounce (29.6 ml.), the syrup pressure must be increased. If the amount received is more than 1 fluid ounce (29.6 ml.), the pressure must be decreased.

Inside the syrup compartment is an air pressure manifold with individual regulators to control the amount of pressure to each tank and syrup line.

If less than 1 fluid ounce (29.6 ml.) is received, the pressure must be increased. Loosen the lock nut. Using a flat blade screwdriver, turn the adjusting screw clockwise.

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

If more than 1 fluid ounce (29.6 ml.) of syrup is received, the pressure must be decreased. Loosen the lock nut and turn the adjusting screw counterclockwise to zero. Remove the air line to the syrup tank to allow the pressure in the tank to dissipate. Reconnect the air line. Adjust the regulator to the new pressure setting and verify the syrup calibration. Tighten the lock nut.

Repeat the calibration procedures for each additional syrup line.

IMPORTANT: When syrup calibration is complete, press the word “RINSE” to rinse the spinner housing.

Sanitizing The Syrup System (H60 Only)

THIS PROCEDURE MUST BE PERFORMED WEEKLY!

Two main objectives in your closing procedures must be to:

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

This must be performed on a regular basis:

1. To keep a build-up of old syrup from clogging the lines.
2. To break the bacteria chain which develops in the tanks and lines.

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

Step 1
Sanitizing the syrup tanks. Pull back on the collar of the quick disconnect fitting of the air line. Allow the air pressure to dissipate from the syrup tank. Disconnect the syrup line.

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

Rinse the syrup tank with clean warm water.

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

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

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

Repeat this procedure for all the syrup tanks.

Step 2

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

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

Place the power switch in the ON position. This will activate the air compressor to supply pressure to the syrup system.

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

Place an empty pail beneath the spinner housing. Press the word “CAL” (calibrate). A message will appear on the LCD.

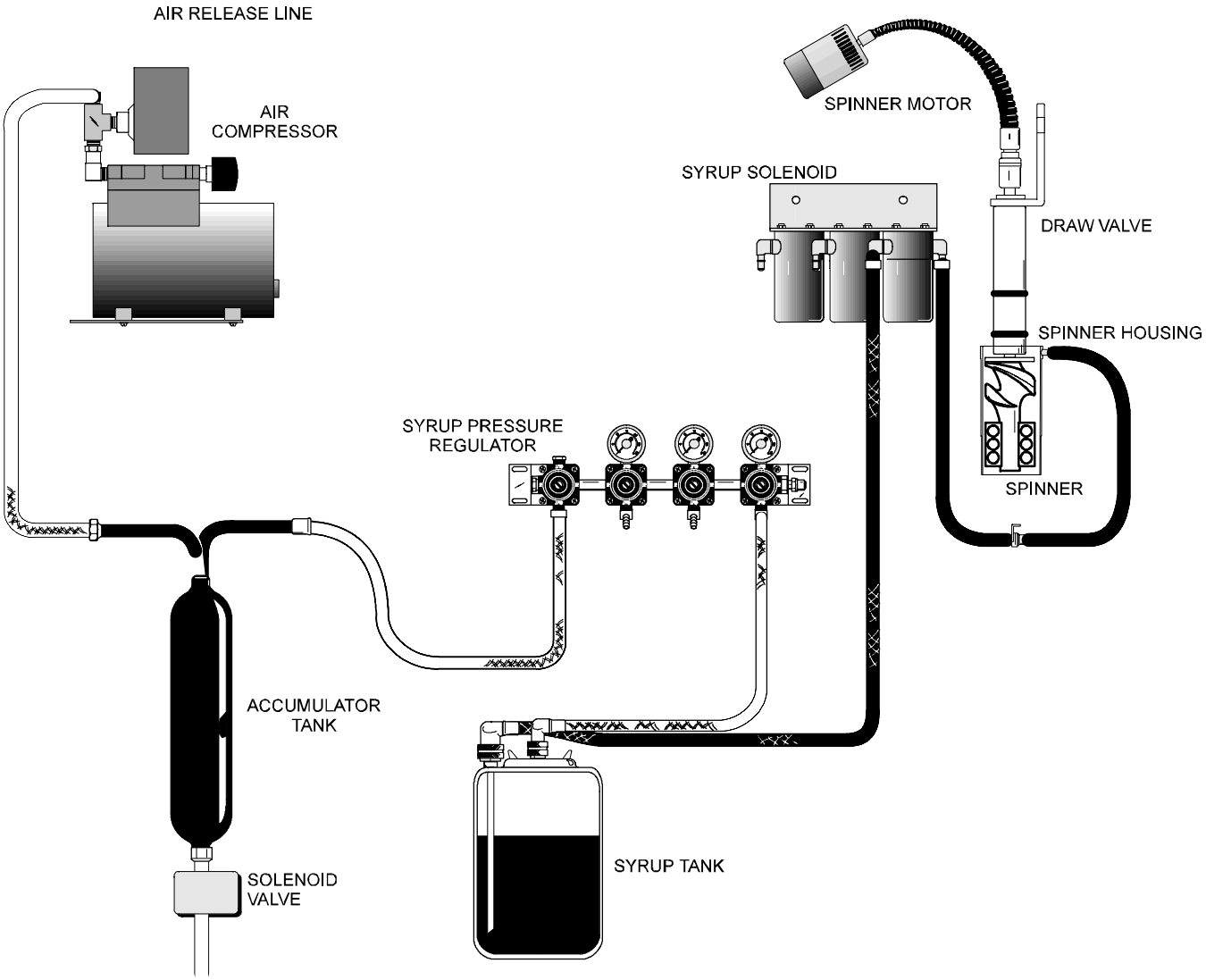
Press the word “WASH”. Flush the syrup line until the solution runs clear. Press the word “CAL” to stop the flow of sanitizing solution.

Note: This procedure will thoroughly clean the ends of the syrup lines that attach to the spinner housing to prevent bacteria build-up.

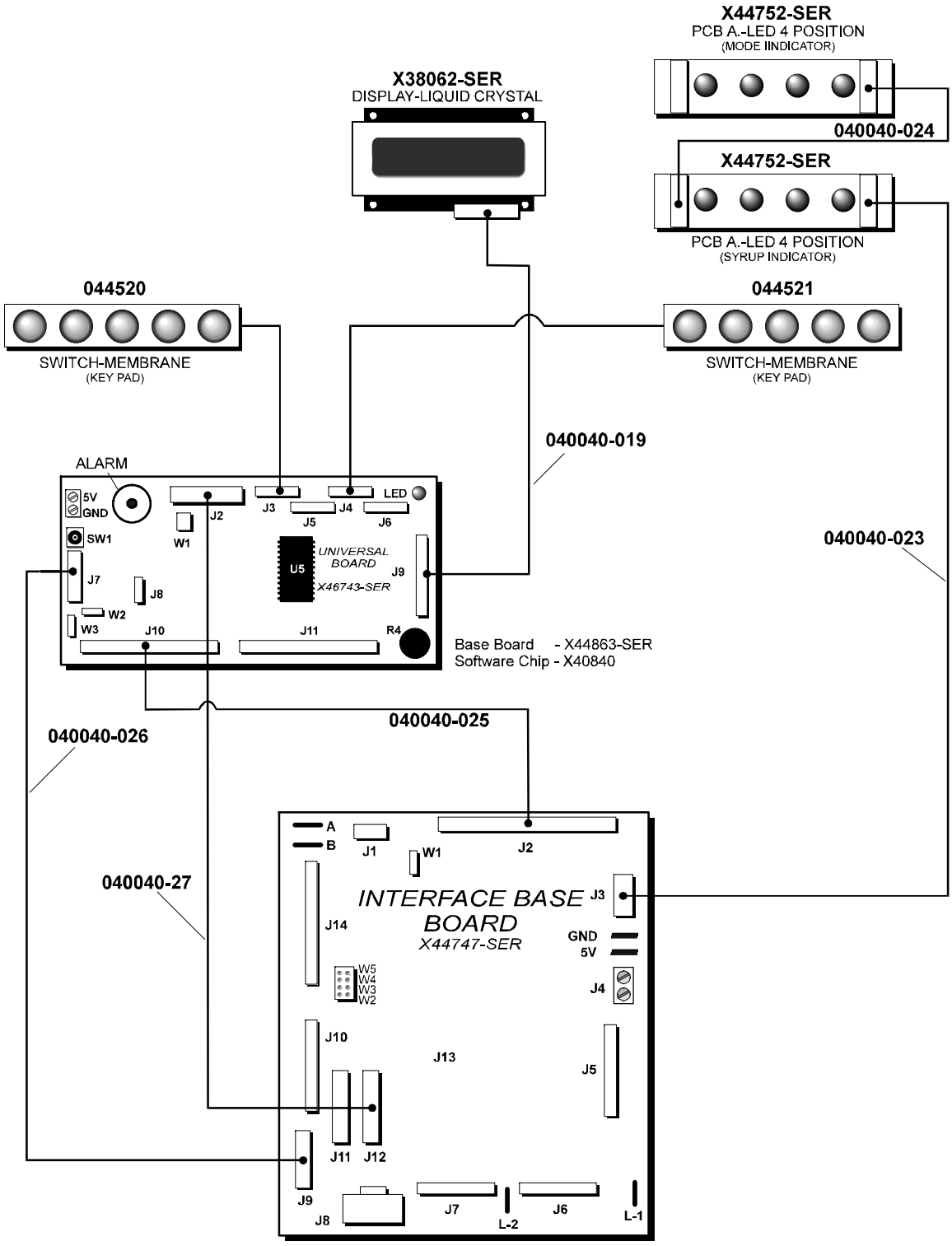
Turn the syrup tank with the sanitizing solution upside-down. Press the word “CAL”. Press the word “WASH” to clear the syrup line of any remaining sanitizer. When the sanitizer has been flushed from the syrup lines, press the word “CAL” to complete this step.

Repeat this procedure for all syrup lines.

The fourth syrup line is for the spinner rinse. Press the word “RINSE” to further flush this rinse line. Place the power switch to the OFF position.

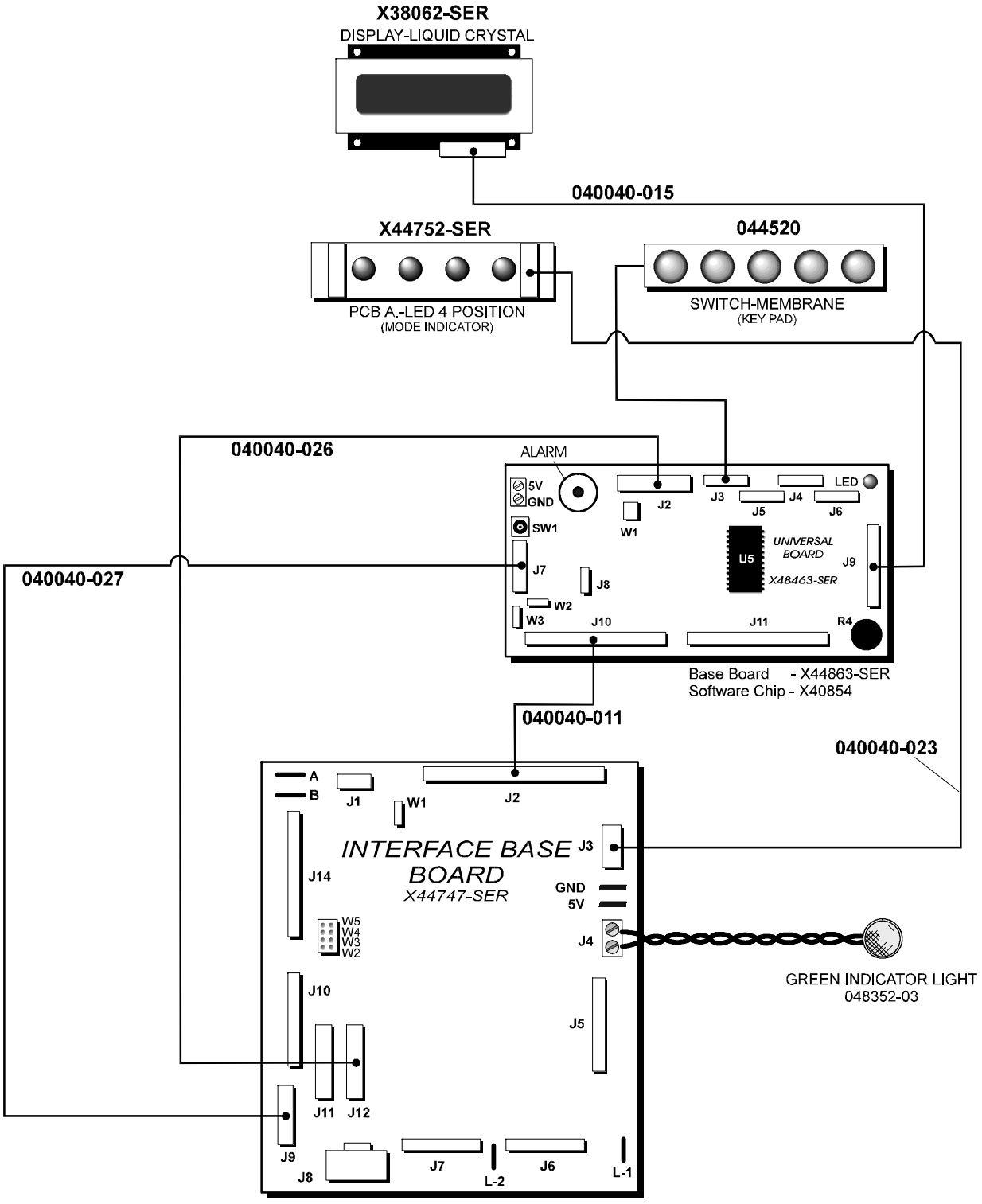


H60 Control Overview

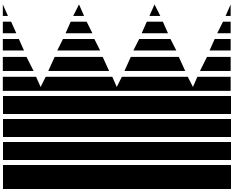


NOTE: The RED line on ribbon cable MUST be connected to pin #1.

H63 Control Overview



NOTE: The RED line on ribbon cable MUST be connected to pin #1.



Section 3: Troubleshooting

- **General Troubleshooting**
- **Electrical Troubleshooting**
- **Consistency Control Troubleshooting**
- **Bacteria Troubleshooting**

General Troubleshooting Guide

PROBLEM	CAUSE	REMEDY
1. A soft lock message appears on the LCD.	a. More than 24 hours has elapsed since the last heat cycle.	a. The freezer must go through a heat cycle every 24 hours. Press the word “AUTO” to place the freezer in the heat treatment cycle, or press the word “WASH” and brush clean the freezer.
	b. The power switch is in the OFF position.	b. The power switch must be in the ON position. The freezer must now be disassembled and brush cleaned or placed in a heat cycle.
	c. The freezer is not in the “AUTO” or “STANDBY” mode.	c. The freezer must be in the “AUTO” or “STANDBY” mode. The freezer must now be disassembled and brush cleaned or placed in a heat cycle.
	d. The freezer is experiencing a mix out condition.	d. The level of mix in the mix hopper must be above the mix low probe before the heat cycle is started. The freezer must be disassembled and brush cleaned or placed in a heat cycle.
2. A hard lock message appears on the LCD.	a. The agitator is not installed.	a. The agitator must be cleaned and installed before starting the heat cycle. The freezer must now be disassembled and brush cleaned.
	b. The agitator is not rotating.	b. The agitator must be cleaned before starting the heat cycle. Disassemble the freezer and brush clean all components.
	c. There is insufficient mix in the mix hopper.	c. The level of mix in the mix hopper must be above the mix low probe before the heat cycle is started. The freezer must now be disassembled and brush cleaned.
	d. The hopper cover is not in position.	d. The hopper cover must be in position before starting the heat cycle. The freezer must be disassembled and brush cleaned.
	e. More than 14 days have elapsed since the last brush cleaning.	e. The freezer must be disassembled and brush cleaned every 14 days.
3. All four LED’s are flashing.	a. The freezer is in a hard or soft lock condition.	a. Brush clean the unit or place it in a heat treatment cycle.
4. Although the freezer was brush cleaned, all four LED’s are flashing.	a. The power switch was not in the “OFF” position for a minimum of five minutes.	a. When the “Clean Manual” and “H.T. Mode” LED’s stop flashing, the freezer will be unlocked.
5. The freezer shuts off and produces a fault tone.	a. Fault alert.	a. Check the fault screen in the operator’s menu.
	b. Insufficient air space.	b. Provide 6” (1.52 cm.) of air space around sides.

PROBLEM	CAUSE	REMEDY
6. When “AUTO” is pressed, the freezer goes into “STANDBY”.	a. The freezer is experiencing a mix-out condition.	a. Add mix.
	b. Hard lock.	b. Check the LCD for instructions.
7. The unit changes modes or shuts itself off.	a. Faulty connections of the membrane switch.	a. Replace the faulty components.
8. The unit enters a heat treatment cycle at “odd times”.	a. Faulty interface board.	a. Replace the interface board (right board on a twin unit).
9. The Liquid Crystal Display is blank after the power switch is turned “ON”.	a. The unit is unplugged.	a. Plug the power cord into wall the receptacle.
	b. The circuit breaker is off or a fuse is blown.	b. Turn the circuit breaker on or replace the fuse.
	c. The screen intensity is out of adjustment.	c. Adjust the screen intensity.
10. The product is too stiff.	a. Improper lubrication of torque rotor o-rings.	a. Lubricate o-rings properly.
	b. Improper consistency control adjustment.	b. Product, with no syrup blended (vanilla), should be dispensed at 26° to 28°F. (-3.3° to -2.2°C.).
	c. The torque rotor is binding.	c. Before installing the torque arm, check to see if the torque rotor can be rotated freely without binding.
	d. Not enough syrup is being blended with product (H60 only).	d. Calibrate the syrup system. Syrup delivery should be 1 oz. (29.6 ml) in six seconds.
	e. The torque arm is not installed.	e. Install the torque arm.
11. The product is too soft.	a. Improper consistency control adjustment.	a. Product, with no syrup blended (vanilla), should be dispensed at 26° to 28°F. (-3.3° to -2.2°C.).
	b. The torque rotor is binding.	b. Before installing the torque arm, check to see if the torque rotor can be rotated freely without binding.
	c. Improper lubrication of torque rotor o-rings.	c. Lubricate o-rings properly.
	d. Lubrication of the torque rotor guide bearing.	d. **Do not** lubricate the guide bearing.
	e. Too much syrup is being blended with product (H60 only).	e. Calibrate the syrup system. Syrup delivery should be 1 oz. (29.6 ml) in six seconds.
	f. There is not enough air space around the unit (air-cooled).	f. Allow 6” (15.2 cm.) minimum clearance around the unit. Allow 7-1/2” floor clearance.
	g. Worn scraper blades.	g. Replace the blades regularly.
	h. Dirty condenser (air-cooled)	h. Clean the condensers regularly.
	i. The mix is outdated.	i. Use only fresh mix.

PROBLEM	CAUSE	REMEDY
11. The product is too soft. *(Cont'd.)*	j. Loss of condenser cooling.	j. Locate and repair the water loss problem.
	k. There is a refrigerant shortage.	k. Locate and repair the leak.
12. Mix in the hopper is too cold.	a. The temperature is out of adjustment.	a. Adjust the hopper temperature.
13. Mix in the hopper is too warm while in the "AUTO" mode.	a. The temperature is out of adjustment.	a. Adjust the hopper temperature.
	b. The hopper cover is not in position.	b. Place the cover in position.
	c. The agitator is not installed.	c. Install the agitator.
	d. Low glycol level.	d. Replenish the glycol.
	e. The glycol mixture is incorrect.	e. Replenish the glycol (50% glycol and 50% distilled water).
14. The drive shaft is stuck in the gear box coupling.	a. Rounded corners of the drive shaft, the drive coupling, or both.	a. Correct the cause and replace the necessary components. Do not lubricate the end of the drive shaft.
	b. Mix and lubricant is collecting in the drive coupling.	b. Brush-clean the rear shell bearing area regularly.
15. The freezing cylinder walls are scored.	a. The beater assembly is bent.	a. Repair or replace the beater and correct the cause of insufficient mix in the freezing cylinder.
	b. The front bearing is missing or worn.	b. Install or replace the front bearing.
	c. The gear box is out of alignment.	c. Realign the gear box.
	d. Broken beater pins.	d. Repair or replace broken pins.
16. Excessive mix is leaking into the rear drip pan.	a. Worn or missing drive shaft seal.	a. Replace the seal regularly.
	b. Inadequate drive shaft lubrication.	b. Follow proper lubrication procedures.
	c. The rear shell bearing is faulty.	c. Replace the rear shell bearing.
	d. The drive shaft and beater work forward.	d. Check the gear alignment.
	e. The seal is installed inside-out on the drive shaft.	e. Install the seals correctly.
17. There is no freezer operation after placing the unit in "AUTO".	a. The unit is unplugged.	a. Plug the power cord into the wall receptacle.
	b. The circuit breaker is off or a fuse has blown.	b. Turn the circuit breaker on or replace the fuse.
	c. The beater motor is out on reset.	c. Clear the tone and reset the freezer.
	d. The water is turned off (water-cooled units.)	d. Re-establish the water supply.

PROBLEM	CAUSE	REMEDY
18. (H60 only) Water continues to flow through the spinner housing.	a. The rinse solenoid will not close.	a. Repair or replace the faulty solenoid .
19. Syrup flows constantly or not at all (difficult calibration).	a. Clogged syrup lines.	a. Flush syrup lines with warm water every week.
20. (H60 only) Large pressure adjustments are necessary to receive 1 fl. oz. (29.6 ml) in six seconds.	a. There is hardened syrup in the syrup line.	a. Clean and sanitize the syrup lines once a week.
	b. The syrup line and air line are not matched properly to the syrup tank.	b. Match the syrup and air lines to the syrup tank.
21. (H60 only) The spinner shaft will not rotate to blend syrup into product.	a. The flexible cable is broken.	a. Replace the cable.
	b. The pin is missing from the female quick disconnect.	b. Replace the disconnect.
	c. The spinner motor is out on thermal overload.	c. The spinner cable is inadequately lubricated. Follow lubrication procedures.
22. The air compressor runs too often for normal usage.	a. There is an air leak in the system.	a. Use a soap solution to locate the leak.
23. The compressor will not run.	b. The power switch is in the “OFF” position.	b. Place the switch in the “ON” position.
	c. The incorrect keypad has been pressed.	c. Press the correct key pad for AUTO operation.
	d. The contactor is faulty.	d. Replace the contactor.
	e. The compressor has burned out.	e. Replace the compressor.
	f. The fuse or circuit breaker has blown.	f. Replace the fuse, or turn on the breaker.
	g. Tripped overload (compressor).	g. Place the power switch in the “OFF” position. Allow the compressor to cool and allow the overload to close before returning the power switch to the “ON” position.
24. The unit operates too long (cycles off on the 11 minute safety timer).	a. Inadequate air flow.	a. Provide 6” (15.2 cm.) of air space around all sides of the unit.
	b. Inadequate AXV settings.	b. Set the AXV at the proper setting.
	c. The condenser is dirty.	c. Clean the condenser.
	d. The scraper blades are worn.	d. Replace the scraper blades.
	e. Shortage of refrigerant.	e. Repair the leak and recharge the unit.
	f. There is air in the system.	f. Purge and recharge the system.

PROBLEM	CAUSE	REMEDY
25. The head pressure is too high.	a. The condenser is dirty. b. The water valve is out of adjustment or is restricted. c. Insufficient air space around unit. d. The refrigerant is overcharged. e. The condenser fan motor is faulty.	a. Clean the condenser. b. Check the adjustment and the water supply. c. Make sure there is sufficient air space surrounding the unit. d. Correct the refrigerant charge. e. Replace the motor.
26. The head pressure is too low.	a. Refrigerant shortage.	a. Repair the leak and recharge the unit.
27. The liquid line is hot.	a. Shortage of refrigerant.	a. Repair the leak and recharge the unit.
28. Low overrun.	a. Bad scraper blades. b. Incorrect syrup calibration (shake). c. Long “ON” cycles.	a. Replace the scraper blades. b. Calibrate syrup delivery for one ounce every 5 seconds. c. See problem #2.
29. The draw valve is leaking.	a. The draw valve o-rings are worn or missing. b. Inadequate lube on draw valve o-rings. c. The wrong type of lubricate is being used.	a. Replace the o-rings regularly. b. Lubricate the components properly. c. Use the proper lubricant. Example: Taylor Lube High Performance.
30. The door spout is clogged.	a. Poor scraping. b. The draw valve o-rings are damaged. c. The beater assembly is damaged. d. The rear shell bearing is worn.	a. Replace the scraper blades. b. Replace the o-rings. c. Replace the beater assembly if necessary. d. Replace the rear shell bearing if necessary.
31. Product is not feeding into the freezing cylinder.	a. Inadequate mix in hopper. b. The mix inlet hole is frozen up. c. The assembled air tubes are installed incorrectly.	a. Fill the hopper with mix. b. Adjust the hopper temperature. c. Install the tube in the mix inlet hole, using the end with the hole in it. The pin on the inner air tube must be positioned at the bottom of the notch in the outer air tube.
32. No product is being dispensed when the draw valve is open and the machine is in the “AUTO” mode.	a. There is a freeze-up in the mix inlet hole. b. The door spout is clogged. c. The beater is rotating counterclockwise. d. There is inadequate mix in the hopper (the mix out light is lit).	a. Adjust the hopper temperature. a. Break down the machine and dislodge the clog in the door spout. b. Change the beater rotation. It should turn clockwise. c. Fill the hopper with mix.

Electrical Troubleshooting Guide

Modes of Operation:

COMPONENT	HEAT			STANDBY	WASH	AUTO
	Heat	Hold	Cool			
Compressor			X	X		X
Beater Motor	X	X	X	X	X	X
Fan			X	X		X
Spinner Motor (H60 Only)						X
Glycol Heater	X	X				
Syrup Solenoid (H60 Only)						X
Agitator	X	X	X	X		X
Air Compressor (H60 Only)	X	X	X	X	X	X
Glycol Pump	X	X	X	X		X

Power flows through the Model H60/H63 electrical system as follows:

Power Switch in the ON Position/WASH Mode

Beater motor operation:

L-1 – power switch – beater motor overload – compressor high cut-out switch – fuse – interface board (pin 7) – compressor contactor coil – beater motor relay – beater motor.

Power Switch in the ON Position/AUTO Mode

Compressor operation:

L-1 – power switch – beater motor overload – compressor high cut-out switch – fuse – interface board (pin 1) – compressor contactor coil – compressor relay – compressor.

Agitator motor:

L-1 – power switch – beater motor overload – compressor high cut-out switch – fuse – interface board (pin 4) – agitator motor.

Glycol pump:

L-1 power switch – beater motor overload – compressor high cut-out switch – fuse – interface board (pin 2) – glycol pump.

Beater Motor:

L-1 – power switch – beater motor overload – compressor high cut-out switch – fuse – interface board (pin 7) – beater motor.

Power Switch in the ON Position/HEAT Mode

Agitator Motor:

Same as in AUTO.

Glycol Pump:

Same as in AUTO.

Beater Motor:

Same as in AUTO.

Glycol Heater:

L-1 – power switch – beater motor overload – compressor high pressure cut-out – fuse – interface board (pin 3) – glycol relay coil – glycol relay – glycol heater.

Power Switch in the ON Position/RINSE Mode (H60 Only)

Rinse Solenoid:

L-1 – power switch – beater motor overload – compressor high pressure cut-out – fuse – interface board (pin 5) – rinse solenoid.

Spinner Motor:

L-1 – power switch – beater motor overload – compressor high cut-out – fuse – interface board (pin 6) – spinner motor.

Consistency Control Troubleshooting

PROBLEM	CAUSE	REMEDY
1. The product is too soft.	a. The adjustment spring is too loose and is prematurely tripping the torque micro switch.	a. Adjust the spring accordingly.
	b. The torque micro switch arm is bent too low, thus tripping the switch prematurely.	b. Bend the arm to the correct position. The micro switch should click when the torque arm is in the center of the travel span.
	c. The operating arm is twisted, and is binding in the control channel.	c. Repair or replace the operating arm.
	d. The torque micro switch is faulty. (The switch cannot send line voltage to the compressor relay.)	d. Replace the switch.
	e. The compressor relay is faulty.	e. Replace the relay.
	f. The compressor is faulty.	f. Replace the compressor.
2. The product is too thick.	a. The adjustment spring is too tight.	a. Adjust the spring accordingly.
	b. The torque arm is missing or is incorrectly installed.	b. Install the torque arm correctly.
	c. The torque micro switch arm is bent too high.	c. Bend the arm to the correct position. The micro switch should click when the operating arm is in the center of travel span.
	d. The operating arm twisted and bound before the torque micro switch is tripped.	d. Repair or replace the operating arm.
	e. The torque micro switch is faulty. (The compressor is constantly energized.)	e. Replace the switch.
	f. The compressor relay is faulty.	f. Replace the relay.

Bacteria Troubleshooting

Periodic product sampling is taken by a sanitarian. Bacteria counts should not exceed the following figures:

Standard Plate Count (SPC).....50,000
Coliform.....10

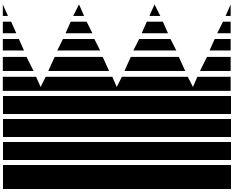
If the counts exceed the numbers listed, steps should be taken to locate the cause. Failure to solve the high counts will result in an unsafe product for consumption. Educate the operator about how to prevent high bacteria counts.

Note: High bacteria counts in soft serve *yogurt* is normal and necessary. Coliform, however, cannot be accepted in any product. The following information will help solve high coliform count problems.

If sample results indicate a problem, one of these areas may be a source of contamination.

CAUSE OF CONTAMINATION	PREVENTION
1. Human contamination.	a. Wash hands and arms past elbows. b. Wear rubber gloves if cuts or skin conditions exist. c. Wash hands periodically throughout the day.
2 Residue product deposits on mix contact surfaces (milkstone build-up).	a. Provide the proper brushes. b. Brush clean all parts and components thoroughly. Ignoring this will allow formation of milkstone, a porous substance which will house bacteria and can lead to contamination of fresh mix.
3. Worn, damaged, or cracked parts.	a. Provide a food grade lubricant (Example: Taylor Lube). b. Inspect o-rings for holes or tears. O-rings, seals and other wear items must be supplied by the freezer company to meet food industry standards. c. During the operating hours, periodically inspect the rear drip pan for excessive leakage.
4. Improper cleaning and sanitation procedures.	a. For cleaning procedures, scrub the sink and strainers thoroughly before each use. The level of solution in each basin must allow the largest component to be submerged. Sanitize and prime the freezer prior to freezing the product. After sanitizing a freezer, use fresh mix to flush remaining sanitizer from the freezing cylinder. b. Provide the proper brushes, lubricants, and single service towels. c. Store sanitizer in a cool, dry place. Use chemicals according to their labels. d. Use a few good employees to follow the cleaning procedure correctly and consistently. Allow the employee to have uninterrupted time to complete the cleaning procedure. e. Hold sanitizing solution in the hopper and the freezing cylinder for five minutes.

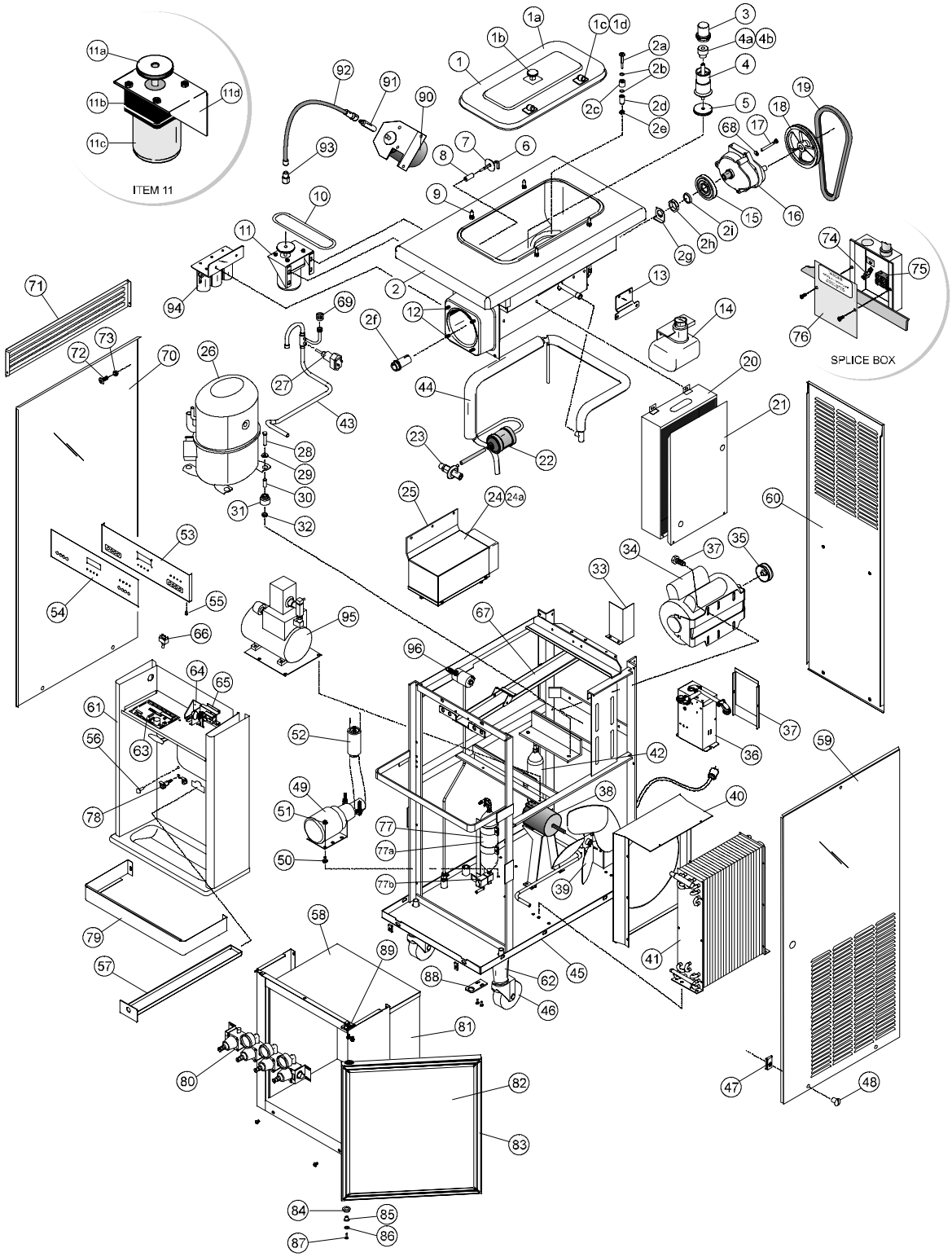
CAUSE OF CONTAMINATION	PREVENTION
4. Improper cleaning and sanitation procedures *(Continued).*	f. Wash and sanitize the tube of lubricant; after each use, always recap the tube. g. Parts, components, and brushes should be air-dried overnight. Never store the equipment in the storage cooler. h. Do not neglect daily cleaning practices: wipe the external areas of the freezer periodically throughout the day, remove the design caps and sanitize the area, check the drip trays and splash shield.
5. Mix stored improperly.	a. Rotate stock to use older date code mix first. Shelf life of mix is normally 10 days. b. Mix must never be stacked outside or under direct sunlight while waiting to be placed in the cooler. c. Place the mix directly in the cooler. Always leave one inch between the mix and other products to allow air to circulate around the product. d. Mix must not remain at room temperature for long periods of time. e. Hopper storage must maintain a temperature of 40°F. (4.4°C.). Storage temperatures above 45°F. will allow cell division in as little as one hour. f. Once the mix is placed in the hopper, covers must be properly installed to maintain adequate refrigeration and to prevent airborne contaminants from entering the mix.



Section 4: Parts

- **Parts Identification**
- **Parts List**
- **Wiring Diagrams**

H60 Exploded View



H60 Exploded View Parts Identification List

Item	Description	Part No.
1	Cover A.-Hopper Ins. Complete	X42628
1a	Cover A.-Hopper Ins. w/Stud	X42276
1b	Knob-Mix Cover	025429
1c	Retainer-Hopper Cover	042619
1d	Screw-8-32 x 1/2 Oval Hd SS	043295
2	Shell A.-Insulated H60 Hood	X46622
2a	Probe A.-Mix Out-Square Hole	X41348
2b	O-Ring-1/2 OD x .070 W	024278
2c	Spacer-Probe-Round Hole 5/8 D	041347
2d	Spacer-Probe-Square Hole 7/8	041346
2e	Nut-10-32 Hex	005598
2f	Bearing-Rear Shell Nickel Plate	031324
2g	Washer-Bearing Lock	012864
2h	Nut-Brass Bearing	028991
2i	Guide-Drip Seal	028992
3	Cap-Magnet HT	044796
4	Housing A.-Agitator HT	X42842
4a	Magnet A.-Agitator-Inner	X41733
4b	Screw-8-32 x 3/16 Allen Set	006812
5	Pulley-Agitator Dr. 1.910 PDx5/16	036210 (60 Hz)
5	Pulley-Agitator Dr. 1.690 PDx5/16	045717 (50 Hz)
6	Probe A.-Mix Low HT	X42077
7	Disc-Probe Sq. Hole	030965
8	Spacer-Probe Sq. Hole	030966
9	Pin-Retaining-Hopper Cover	043934
10	Belt-Rd 3/16 W x 4.95 ID	036162
11	Motor A.-Agitator H60	X46661-
11a	Pulley-Agitator Motor 1.910x3/8	042063 (60 Hz)
11a	Pulley-Agitator Motor 2.110x3/8	045718 (50 Hz)
11b	Gear A.-Reducer-Agitator	047988
11c	Motor-Agitator	047987-27
11d	Bracket-Agitator Motor HT	037980
12	Stud-Nose Cone 5/16-18 x 3/8-1	011390
13	Bracket-Glycol Tank HT SGL	047400
14	Tank-Glycol 1.5 Qt.-Plastic	047314
15	Shield-Mix-Gear Reducer	013356
16	Gear A.-Reducer	012235
17	Screw-5/16-18 x 2-3/4 Hex Cap	004191
18	Pulley-AK64-5/8	007538
19	Belt-V 4L370	004227 (60 Hz)

Item	Description	Part No.
19	Belt-V 4L380	007098 (50 Hz)
20	Control Assembly H60	X46637-27A
21	Cover-Control Box H60	047558
22	Dryer-Filter HP62 3/8 x 1/4S	047521
23	Valve-Exp.-Auto 1/4S x 1/4 FPT	046365
*23a	Boot-Expansion Valve	027137
24	Heater A.-Glycol 2500W H60	X47331-
24a	Thermostat-Hi Limit	035786
25	Bracket-Heater H60	047897
26	Compressor-AHA7513ZXD	047520-
27	Switch-Pressure 440 PSI	048230
*27a	Boot-Pressure Switch	034682
28	Screw-5/16-18 x 1-3/4 Hex Cap	019691
29	Washer-5/16 Flat ZP Steel	000651
30	Sleeve-Mounting-Compressor	039924
31	Grommet-Compressor Mount	039923
32	Nut-5/16-18 MF Lock	017327
33	Guard-Belt	013576
34	Motor-1.0 HP	013102-27
35	Pulley-AK25-5/8	019153 (60 Hz)
35	Pulley-AK30-5/8	033559 (50 Hz)
36	Box A.-Cap & Relay H60	X47966-27
37	Screw-5/16-18 x 5/8 MF Hex Cap	017326
38	Motor-Fan 120 W 208/230V (60 Hz)	041401-27
38	Motor-Fan 100 W 220/240V (50 Hz)	047178-34
39	Fan-4 Blade 12” Push 26°	029771
40	Shroud-Condenser SH-HT-GEN	041728
41	Condenser-AC 12Lx18Hx4.3-5	019558
42	Receiver A.-Refrig. H60 AC	X47904
43	Line A.-Discharge H60 AC	X47903
44	Exchanger A.-Heat H60	X47902
45	Frame Assembly H60 AC	X47891
46	Caster-Swivel 5/8 Stem 4” Wheel	018794
47	Fastener-Clip 1/4-20 U-Type	045865
48	Screw-1/4-20 x 3/8 RHM SS	011694
49	Pump A.-Glycol H60	X47330-27G
*49a	Pump-Glycol 1/8 NPT-1650 RPM	041785
*49b	Adaptor-1/8 MP x 5/16 Barb	047325
*49c	Boot-Glycol Pump	042131
50	Screw-1/4-20 x 5/8 MF Hex Cap	017522

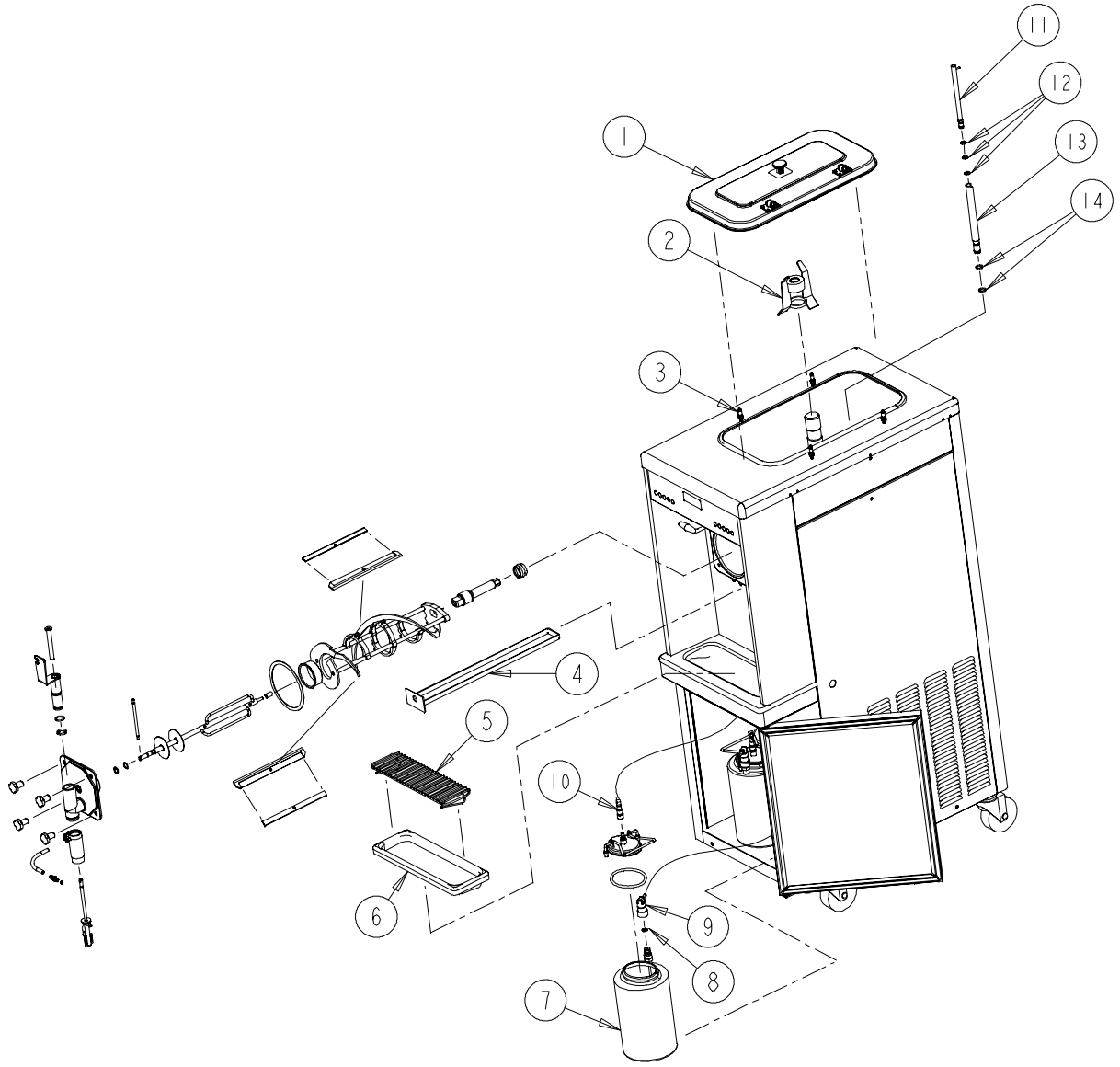
H60 Exploded View Parts Identification List *(Cont'd.)*

Item	Description	Part No.
51	Nut-1/4-20 MF Lock	017523
52	Filter A.-Glycol	X47323
*52a	Filter-Inline-Glycol	041670
53	Plate A.-Dec H60	X46646
54	Decal-Dec-Taylor-H60	046178
55	Screw-6-32 x 3/8 Bin Hd Slot	002201
56	Bolt-Carriage 1/4-20 x 3/4	012347
57	Pan-Drip 19-1/2 Long	035034
58	Panel-Service	048380
59	Panel A.-Side R	X48286
60	Panel-Rear w/Louvers	026980-SP
61	Panel A.-Front	X46634
62	Adaptor A.-Caster	X18915
63	PCB A.-Control	X46743
64	Switch A.-Draw	X41374
65	Switch A.-Torque	X46656
66	Switch-Toggle DPDT	024295
67	Guide A.-Drip Pan	X47900
68	Washer-5/16 SAE Flat	017660
69	Cap-Schrader Valve	037048
70	Panel A.-Side L	X48285
71	Louver-Side	013631
72	Screw-10-24 x 1/2 Taptite	002077
73	Washer-Plastic Pivot	013808
74	Lug-Grounding 260 w/Gr. Screw	020928
75	Block-Terminal 2P	039422
75	Block-Terminal 3P	039423

Item	Description	Part No.
75	Block-Terminal 3P+N	039424
76	Cover-Splice Box	028224
77	Accumulator A.-Air H60	X47284
77a	Accumulator A.-Air	X46916
77b	Valve-Solenoid	044125-27
*77c	Fitting A.-Air Accumulator	X48548
*77d	Tube-Vinyl	020938-6
78	Fitting-QD Female Panel Mount	036295
79	Trim A.-Shelf	X45334
80	Manifold A.-Regulator	X47285
81	Cabinet A.-Syrup	X45769
82	Door A.-Syrup Cabinet	X45325
83	Gasket-Door 5.177 x 5.938	016672
84	Bushing-Syrup Cabinet Door	045340
85	Bearing-Syrup Cabinet Door	045339
86	Washer-3/16 Flat Steel	005194
87	Screw-10-32 x 3/4 Truss Hd SS	033944
88	Plate-Hinge Lower	045338
89	Plate-Hinge Upper	045337
90	Motor-1/12 HP 3450	016005-
91	Shaft-Extension	034693
92	Shaft-Drive-Flexible	016787
93	Coupling A.-Drive-Spinner	X17106
94	Valve A.-Solenoid 3 Flavor	X46639-03
95	Compressor A.-Air	X47283-27G
96	Valve A.-Solenoid-Rinse	X46657-27

*Not shown.

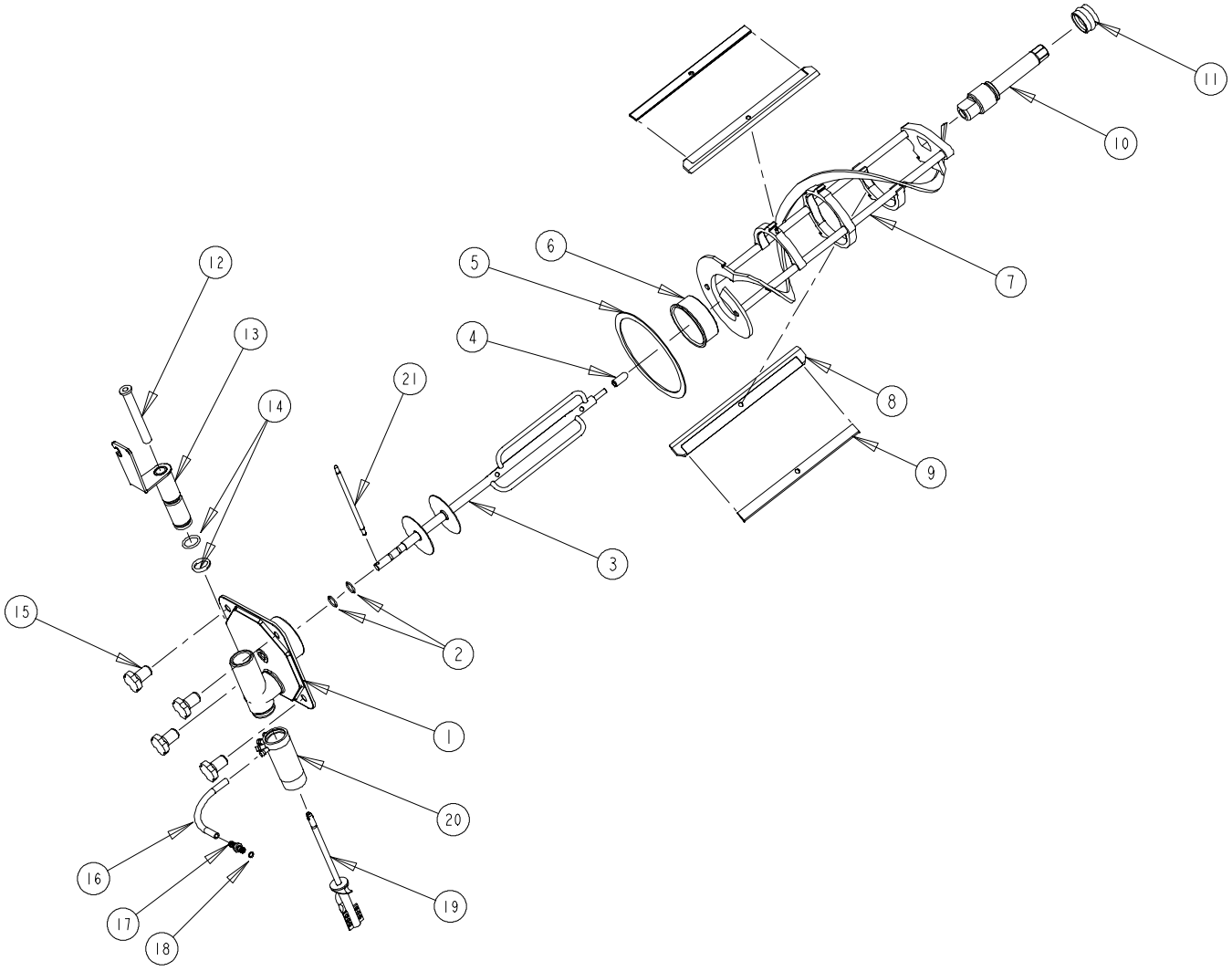
H60 Operator Parts Identification



Item	Description	Part No.
1	Hopper Cover	X42628
2	Agitator	X44797
3	Retaining Pin	043934
4	Drip Pan	035034
5	Splash Shield	046177
6	Drip Tray	046275
7	Syrup Tank-4 qt.	045533

Item	Description	Part No.
8	O-Ring-Syrup Fitting	016030
9	QD Liquid Plug	021081
10	QD CO_2 Plug	021077
11	Inner Air/Mix Feed Tube	X32824-3
12	O-ring Inner Feed Tube	018550
13	Outer Air/Mix Feed Tube	X34641
14	O-ring Outer Feed Tube	018572

H60 Door and Beater Assembly

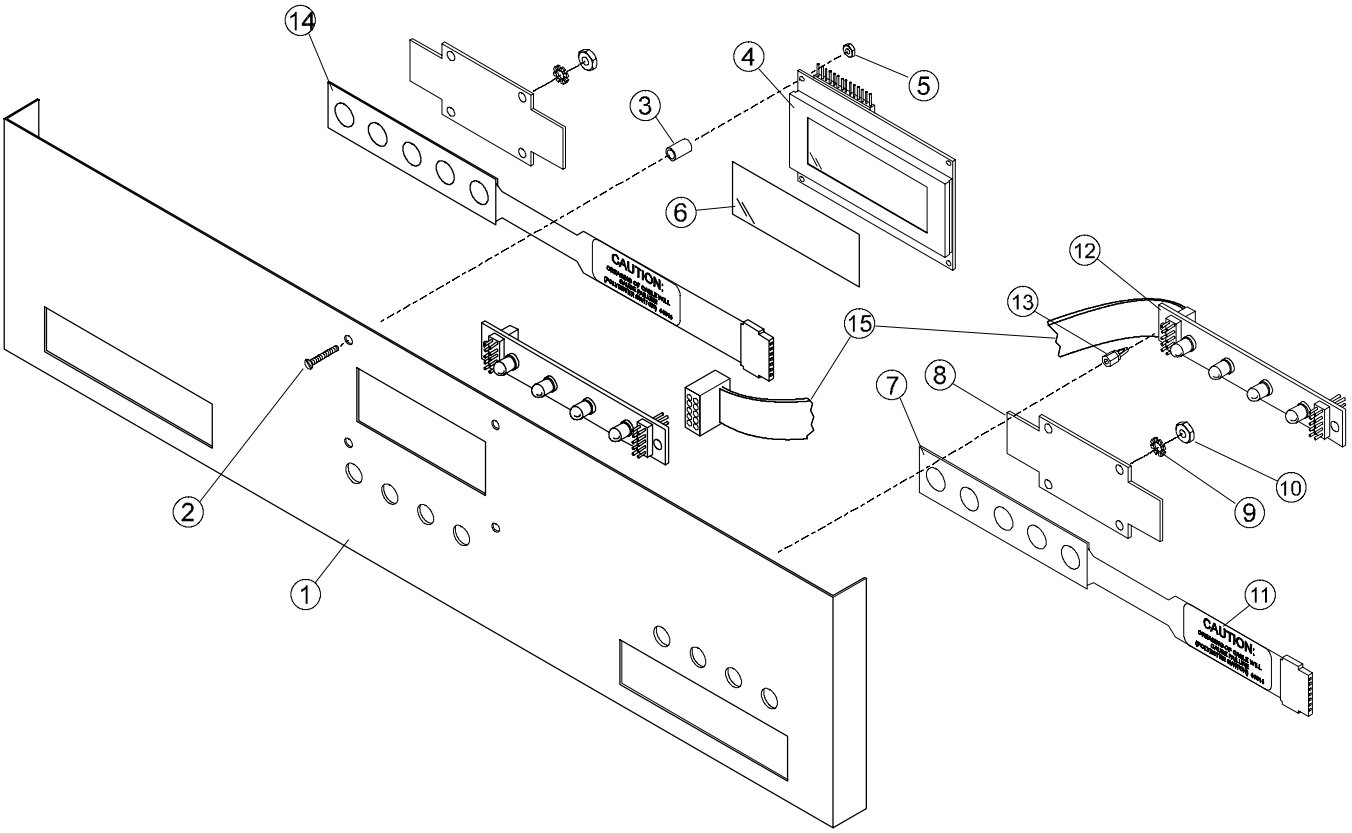


Item	Description	Part No.
1	Freezer Door	X17373
2	O-ring Torque Shaft	018550
3	Torque Shaft	X17381
4	Bearing Guide	014496
5	Door Gasket	016672
6	Front Bearing	013116
7	Beater	X46233
8	Scraper Blade	046237
9	Clip-Scraper Blade	046238
10	Drive Shaft	035527
11	Seal - Drive Shaft	032560

Item	Description	Part No.
12	Spinner Bearing	017032
13	Draw Valve	X46671
14	O-ring-Draw Valve	013029
15	Stud Nut	021508
*16	Tube-Vinyl (6” or 8”)	020940-
17	Fitting-QD Male Insert	036296
18	O-ring	016272
19	Spinner Blade	X35570
20	Spinner Housing	017269
21	Torque Arm	014500

*Bulk # R30314

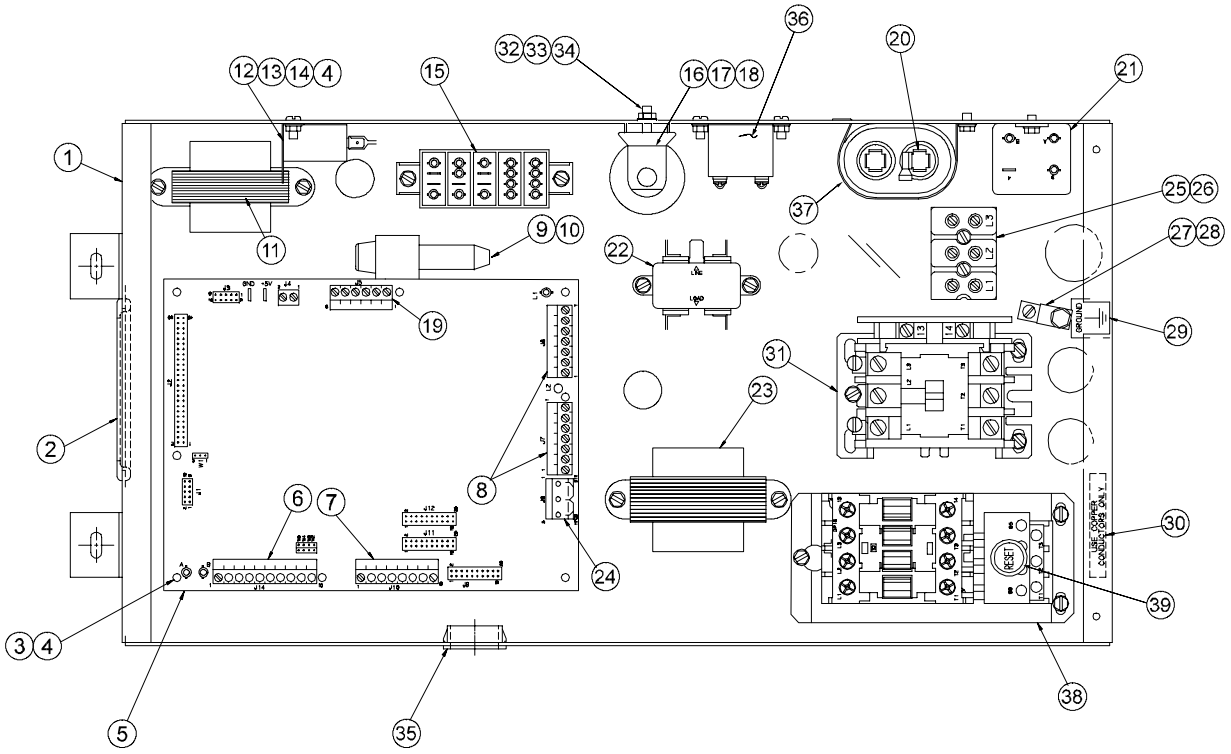
H60 Decorative Plate A. X46645



Item	Description	Part No.
1	Plate A.-Decorative	X46646
2	Screw-2-56 x 1/2 FHM	038219
3	Standoff-Lens	038225
4	Display-Liquid Crystal	X38062-SER
5	Nut-Hex #2-56 Zinc Plated	038220
6	Lens-Display	038221
7	Switch-Membrane-5 Pos. 20”	044521
8	Plate-Backup-Membrane Switch	044578

Item	Description	Part No.
9	Washer-#6 Shakeproof	024541
10	Nut-6-32 x 3/8 Nylon	045852
11	Decal-Caution-Cable Creasing	044614
12	PCB A.-LED-4 Position	X44752-SER
13	Standoff-Nylon-6-32 x 3/8 Snap	040040-008
14	Switch-Membrane 8”	044520
15	Cable-Ribbon 10C-5”L	040040-024

H60 Control Assembly X46637-

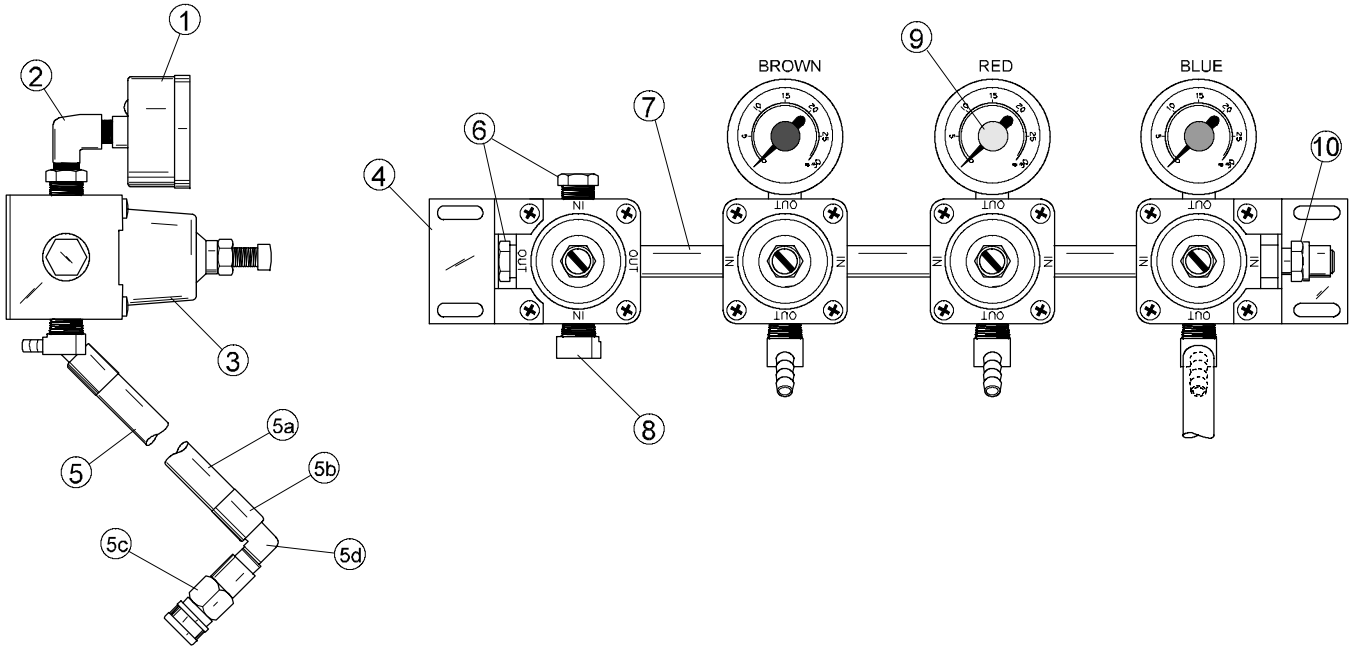


Item	Description	Part No.
1	Box A.-Control	X45064
2	Grommet-Ribbon Cable	044999
3	Standoff-Nylon	040280-002
4	Screw-6-32 x 3/8 Bin. Hd Slot	002201
5	PCB A.-Interface HT Base	X44747-SER
6	Block-Terminal-Plug 10P	040322-005
7	Block-Terminal-Plug 8P	040322-004
8	Block-Terminal-Plug 7P	040322-003
9	Fuse-15 Amp-In Line	045293
10	Holder-Fuse-In Line	045606
11	Transformer-Cont.-Ant. 20 VA	016352-27
12	Capacitor-Run	039482
13	Washer-#6 Shakeproof	024541
14	Nut-6-32 Hex	000927
15	Block-Terminal 5P	024329
16	Capacitor-Start	020246
17	Cap-Capacitor	020247
18	Bracket-Capacitor	020248
19	Block-Terminal-Plug 6P	040322-002
20	Capacitor-Run	019624
21	Relay-SPDT 30A	032607-27

Item	Description	Part No.
22	Filter-Corcom	040140-001
23	Transformer-Cont. 40A	045754
24	Connector-Housing 5P	040080-464
25	Block-Terminal 2 Pole - 1 Ph	039422
25	Block-Terminal 3 Pole-3 Ph	039423
25	Block-Terminal 3 Pole-3 Ph +N	039424
26	Screw-8 x 1-1/4 RD HD Type B	039420
27	Lug-Grounding w/Grn Screw	020928
28	Screw-10-32 x 5/8 Taptite Hex	039382
29	Label-Grounding Symbol	017669
30	Label-Use Copper Cond. Only	025948
31	Relay-3 Pole 20A 208/240	012725-33
32	Screw-10-32 x 1/2 Flat Hd ZP	003053
33	Washer-#10 Shakeproof	002681
34	Nut-10-32 Hex	005598
35	Bushing-Snap 15/16 ID	023396
36	Relay-Spinner Motor 1/2 HP	016006-27
37	Strap-Capacitor	041350
38	Starter-3 Phase	041950-
39	Overhead-Thermal	047150-
*40	Block-Terminal 7 Pole Green	024156 (50Hz)

*** Not Shown**

H60 Manifold Assembly - Regulator X47285

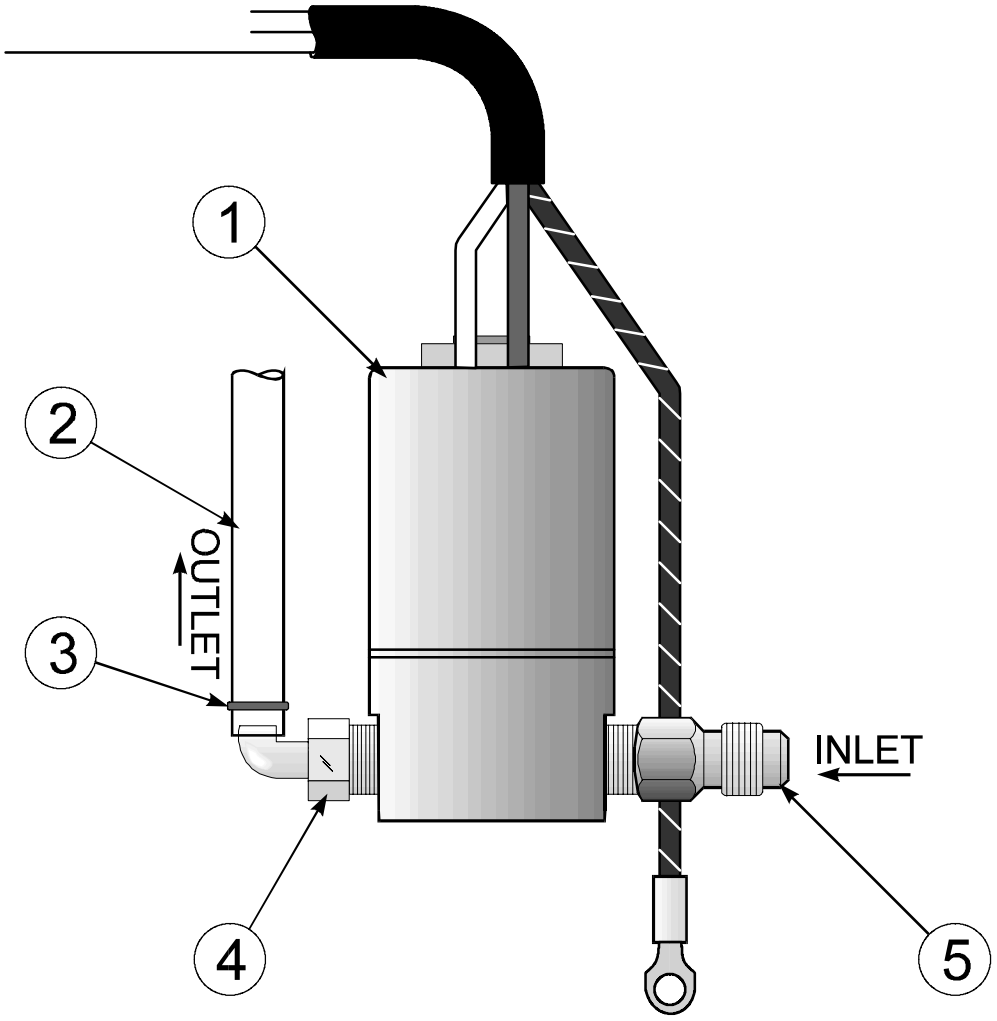


Item	Description	Part No.
1	Gauge-Pressure 0-60 PSI	027875
2	Elbow-1/4 MPT x 1/8 FPT	047063
3	Regulator-Pressure-CO2	027744
4	Support-Regulator	027952
5	Line A.-Air 45°	X47043-12
*5a	Tube-Nylobrade	020568-12
5b	Ferrule	021082

Item	Description	Part No.
5c	Socket-Q.D.	021524
5d	Elbow-1/4 x 1/4	046925
6	Plug-1/4 MPT Brass	027747
7	Nipple-1/4 MPT x 2 Long	075940
8	Fitting-1/4 x .170 90°	075946
9	Decal-Flavor Color Set 4	022105
10	Valve-Pressure Relief 45#	047252

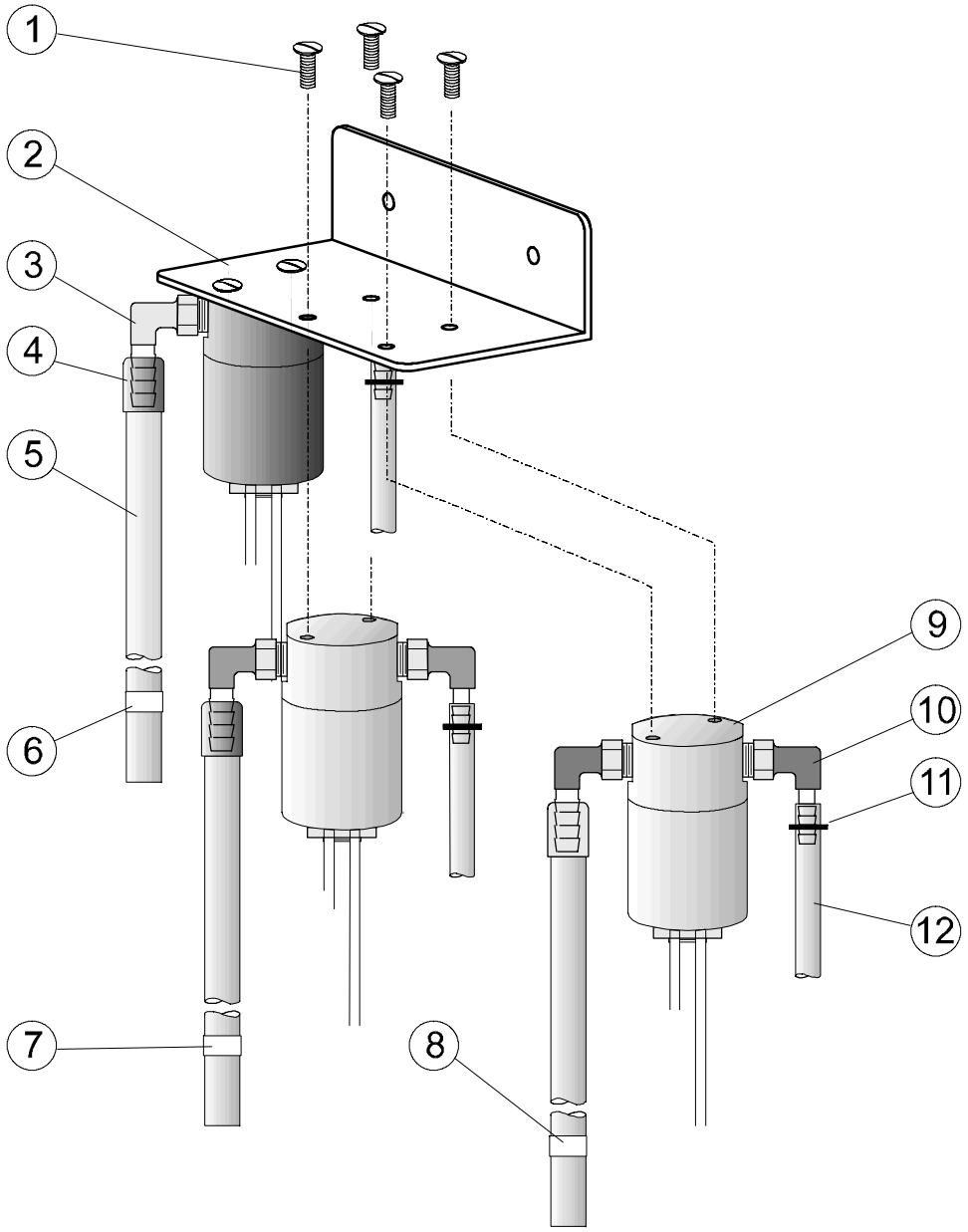
*Bulk # R30317

H60 Valve A.–Solenoid–Rinse X46657-27 / 27G



Item	Description	Part No.
1	Valve-Solenoid-3/32 Orifice SS	041599-27
2	Tube-Vinyl 3/16 x 1/16 Wall	020940-11
3	Clamp-Hose 5/16 ID	017051
4	Elbow-1/4 MFL x 1/4 MPT	016615
5	Fitting-1/4 MFL x 1/4 MPT	006295

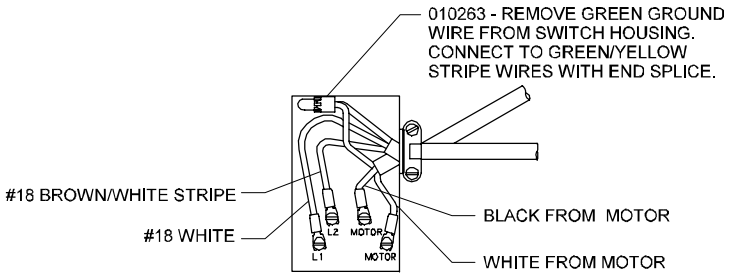
H60 Solenoid Valve A. – 3 Flavor X46639-03



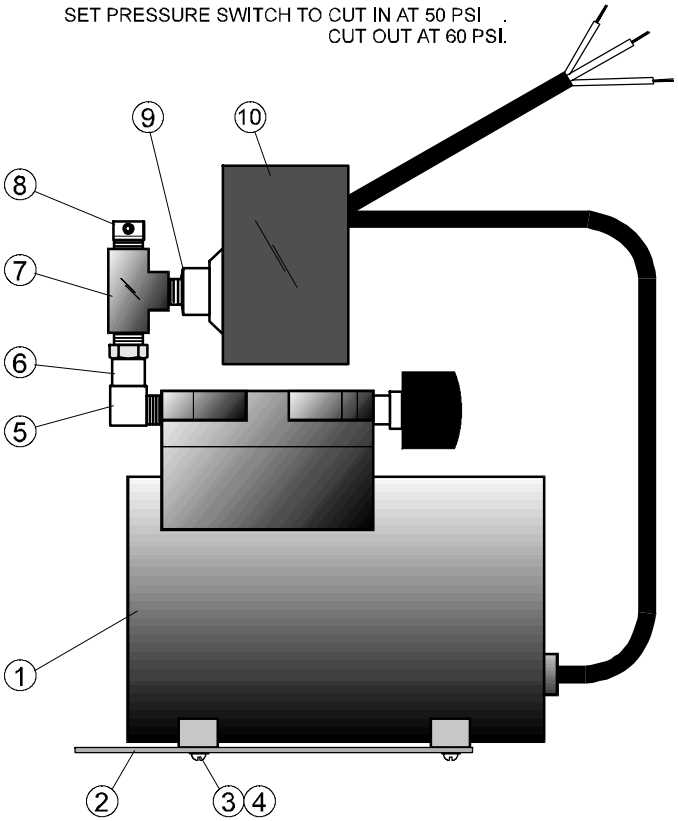
Item	Description	Part No.
1	Screw-10-32 x 3/8 RHM-ZP	002741
2	Plate-Valve Mounting	046440
3	Elbow-1/4 MP x 1/4 Barb	016614
4	Ferrule-.475 ID NP Brass	021082
5	Tube-Nylobrade 1/4 ID x 7/16	020568-44
6	Label-Brown	022710

Item	Description	Part No.
7	Label-Red	022707
8	Label-Dark Blue	022708
9	Valve-Solenoid 3/16 Orifice SS	041589-03
10	Elbow-1/4 MP x 3/16 Barb	016615
11	Clamp-House 5/16 ID	017051
12	Tube-Vinyl 3/16 x 1/16 Wall	020940-15

H60 Air Compressor Assembly X47283-27G



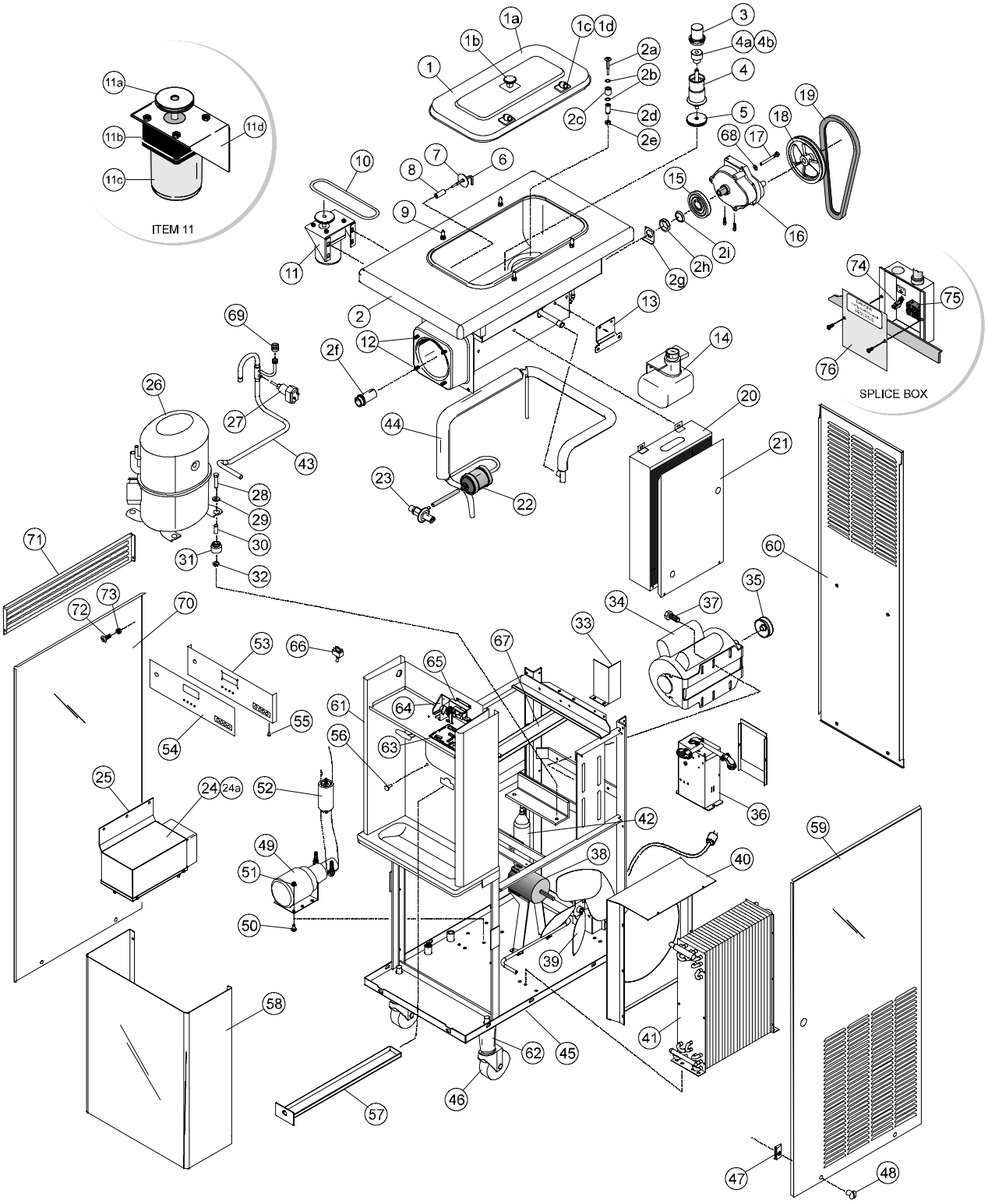
WIRING FOR FURNAS
H.P. SWITCH



Item	Description	Part No.
1	Compressor-Air	032129-27
2	Bracket-Air Compressor	046663
3	Screw-8-32 x 3/8 RD HD	007544
4	Washer-#8 Shakeproof	000964
5	Elbow-1/4 PT-Street Brass	012429

Item	Description	Part No.
6	Valve-Check 1/4 MP	020959
7	Tee-1/4 FP Brass	024772
8	Fitting 1/4 x .170 90°	075946
9	Nipple-1/4 IPT x 7/8 Lg.	026496
10	Switch-Pressure	016308

H63 Exploded View



H63 Parts Identification List

Item	Description	Part No.
1	Cover A.-Hopper Ins.-Complete	X42628
1a	Cover A.-Hopper Ins. w/Stud	X42276
1b	Knob-Mix Cover	025429
1c	Retainer-Hopper Cover	042619
1d	Screw-8-32 x 1/2 Oval Hd SS	043295
2	Shell A.-Insulated H60 Hood	X46622
2a	Probe A.-Mix Out-Square Hole	X41348
2b	O-Ring-1/2 OD x .070 W	024278
2c	Spacer-Probe-Round Hole 5/8	041347
2d	Spacer-Probe-Square Hole 7/8	041346
2e	Nut-10-32 Hex	005598
2f	Bearing-Rear Shell Nick. Plate	031324
2g	Washer-Bearing Lock	012864
2h	Nut-Brass Bearing	028991
2i	Guide-Drip Seal	028992
3	Cap-Magnet HT	044796
4	Housing A.-Agitator HT	X42842
4a	Magnet A.-Agitator-Inner	X41733
4b	Screw-8-32 x 3/16 Allen Set	006812
5	Pulley-Agt. Dr. 1.910 PD x 5/16 T	036210 (60 Hz)
5	Pulley-Agt. Dr. 1.690 PD x 5/16 T	045717 (50 Hz)
6	Probe A.-Mix Low-HT	X42077
7	Disc-Probe-Square Hole	030965
8	Spacer-Probe-Square Hole	030966
9	Pin-Retaining-Hopper Cover	043934
10	Belt-Rd 3/16 W x 4.95 ID	036162
11	Motor A.-Agitator	X46661-
11a	Pulley-Agt. Motor 1.910 PD x 3/8	042063 (60 Hz)
11a	Pulley-Agt. Motor 2.110 PD x 3/8	045718 (50 Hz)
11b	Gear A.-Reducer-Agitator	047988
11c	Motor-Agitator	047987-27
11d	Bracket-Agitator Motor-HT	037980
12	Stud-Nose Cone 5/16-18 x 3/8-1	011390
13	Bracket-Glycol Tank-HT SGL	047400
14	Tank-Glycol 1.5 Qt.-Plastic	047314
15	Shield-Mix-Gear Reducer	013356
16	Gear A.-Reducer	012235
17	Screw-5/16-18 x 2-3/4 Hex Cap	004191
18	Pulley-AK64-5/8	007538
19	Belt-V-4L370	004227 (60 Hz)

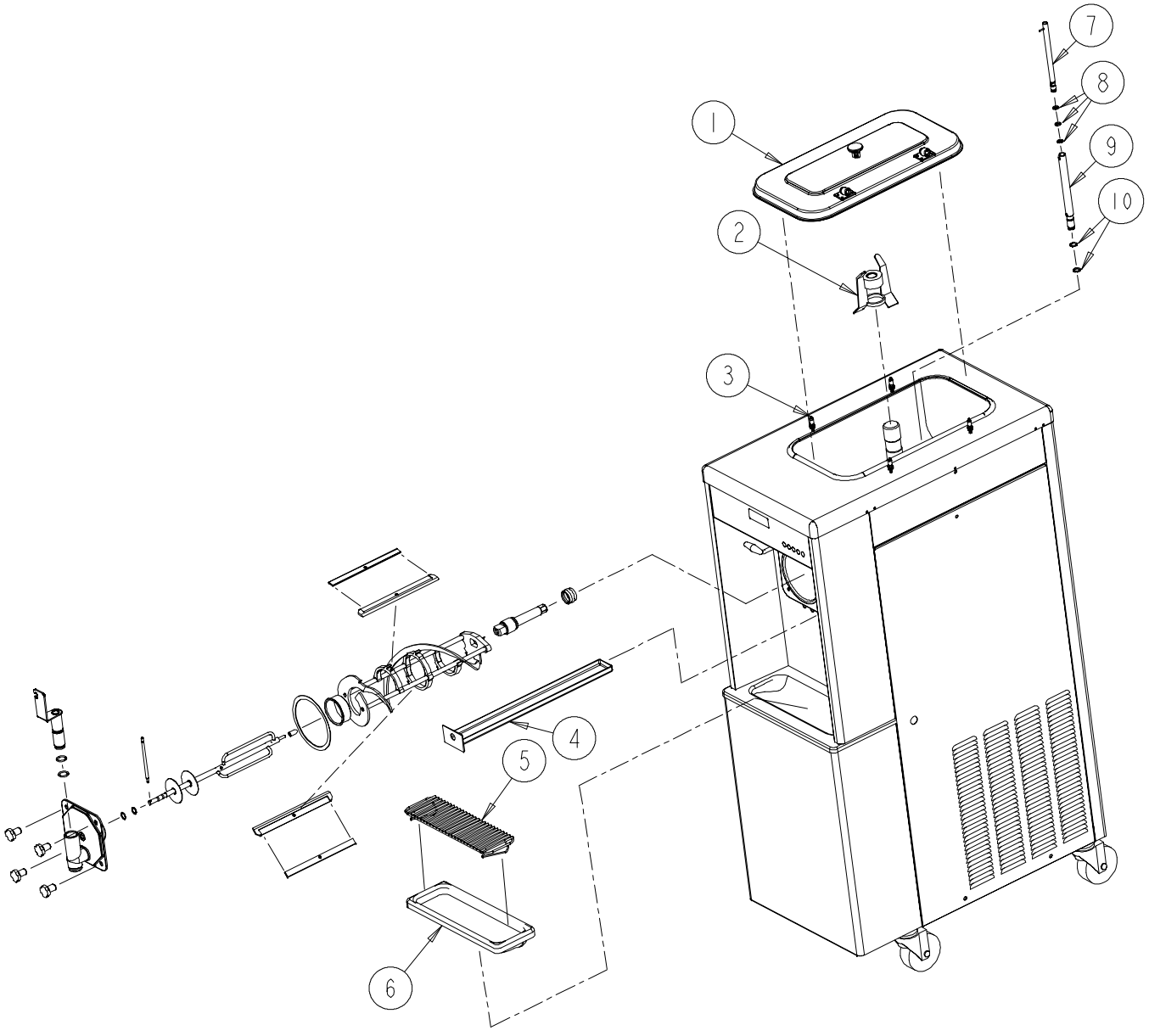
Item	Description	Part No.
19	Belt-V-4L380	007098 (50 Hz)
20	Control Asssembly	X48412-
21	Cover-Control Box	047558
22	Dryer-Filter-HP62-3/8 x 1/4 S	047521
23	Valve-Exp.-Auto-1/4S x 1/4 FPT	046365
*23a	Boot-Expansion Valve	027137
24	Heater A.-Glycol-2500W	X47331-
24a	Thermostat-Hi Limit	035786
25	Bracket-Heater	047897
26	Compressor-AHA7513ZXD	047520-
27	Switch-Pressure 440 PSI	046362
*27a	Boot-Pressure Switch	034682
28	Screw-5/16-18 x 1-3/4 Hex Cap	019691
29	Washer-5/16-Flat ZP Steel	000651
30	Sleeve-Mounting-Compressor	039924
31	Grommet-Compressor Mount	039923
32	Nut-5/16-18 MF Lock	017327
33	Guard-Belt	013576
34	Motor-1.0 HP	013102-
35	Pulley-AK25-5/8	019153 (60 Hz)
35	Pulley-AK30-5/8	033559 (50 Hz)
36	Box A.-Cap & Relay	X47966-27
37	Screw-5/16-18 x 5/8 MF Hex	017326
38	Motor-Fan 120W 208/230V 60Hz	041401-27
38	Motor-Fan 100W 220/240V 50Hz	047178-34
39	Fan-4 Blade 12” Push 26°	029771
40	Shroud-Condenser	041728
41	Condenser-AC-12Lx18Hx4.3-5 R	019558
42	Accumulator	047062
43	Line A.-Discharge	X47903
44	Exchanger A.-Heat	X47902
45	Frame Assembly	X47891
46	Caster-Swivel 5/8 Stem 4” Wheel	018794
47	Fastener-Clip 1/4-20 U-Type	045865
48	Screw-1/4-20 x 3/8 RHM-Stnls.	011694
49	Pump A.-Glycol	X47330-27G
*49a	Pump-Glycol-1/8 NPT-1650 RPM	041785
*49b	Adaptor-1/8 MP x 5/16 Barb	047325
*49c	Boot-Glycol Pump	042131
50	Screw-1/4-20 x 5/8 MF Hex Cap	017522

H63 Parts Identification List *(Cont'd.)*

Item	Description	Part No.
51	Nut-1/4-20 MF Lock	017523
52	Filter A.-Glycol	X47323
*52a	Filter-Inline-Glycol	041670
53	Plate A.-Dec-H63	X48382
54	Decal-Dec-Taylor	048358
55	Screw-6-32 x 3/8 Bin. Hd Slot	002201
56	Bolt-Carriage 1/4-20 x 3/4	012347
57	Pan-Drip-19-1/2 Long	035034
58	Panel-Service	048380
59	Panel A.-Side Right	X48286
60	Panel-Rear w/Louvers	026980-SP
61	Panel A.-Front	X48371
62	Adaptor A.-Caster	X18915
63	PCB A.-Control	X48463-SER
64	Switch A.-Draw	X41374
65	Switch A.-Torque	X46656
66	Switch-Toggle-DPDT	024295
67	Guide A.-Drip Pan	X47900
68	Washer-5/16 SAE Flat	017660
69	Cap-Schrader Valve	037048
70	Panel A.-Side Left	X48285
71	Louver-Side	013631
72	Screw-10-24 x 1/2 Taptite	002077
73	Washer-Plastic Pivot	013808
74	Lug-Grounding 260 w/Grn Screw	020928
75	Block-Terminal 2P	039422
75	Block-Terminal 3P	039423
75	Block-Terminal 3P+N	039424
76	Cover-Splice Box	028224

*Not shown.

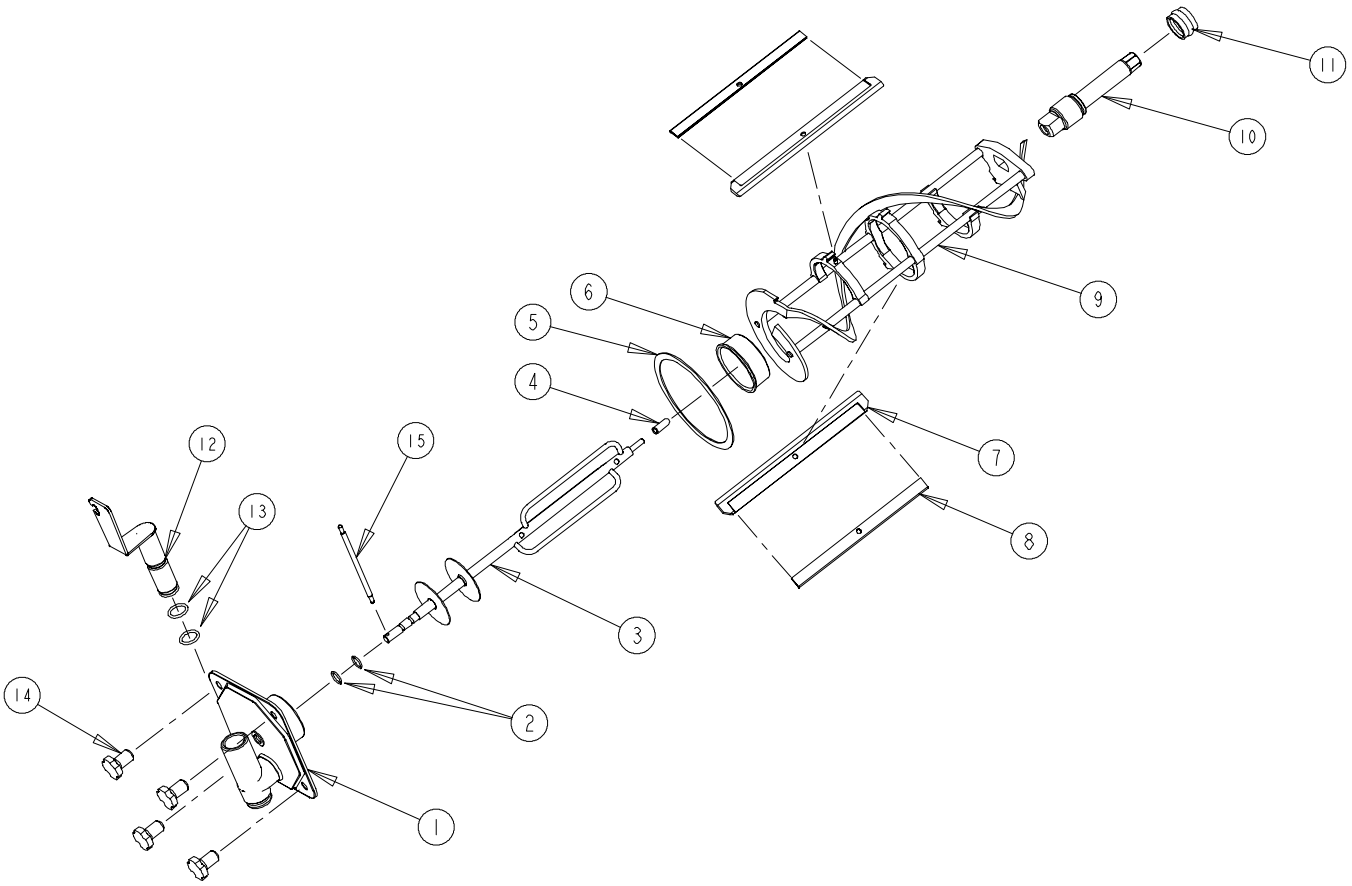
H63 Operator Parts Identification



Item	Description	Part No.
1	Hopper Cover	X42628
2	Agitator	X44797
3	Retaining Pin	043934
4	Drip Pan	035034
5	Splash Shield	046177

Item	Description	Part No.
6	Drip Tray	046275
7	Inner Air/Mix Feed Tube	X32824-5
8	O-ring Inner Feed Tube	018550
9	Outer Air/Mix Feed Tube	X34641
10	O-ring Outer Feed Tube	018572

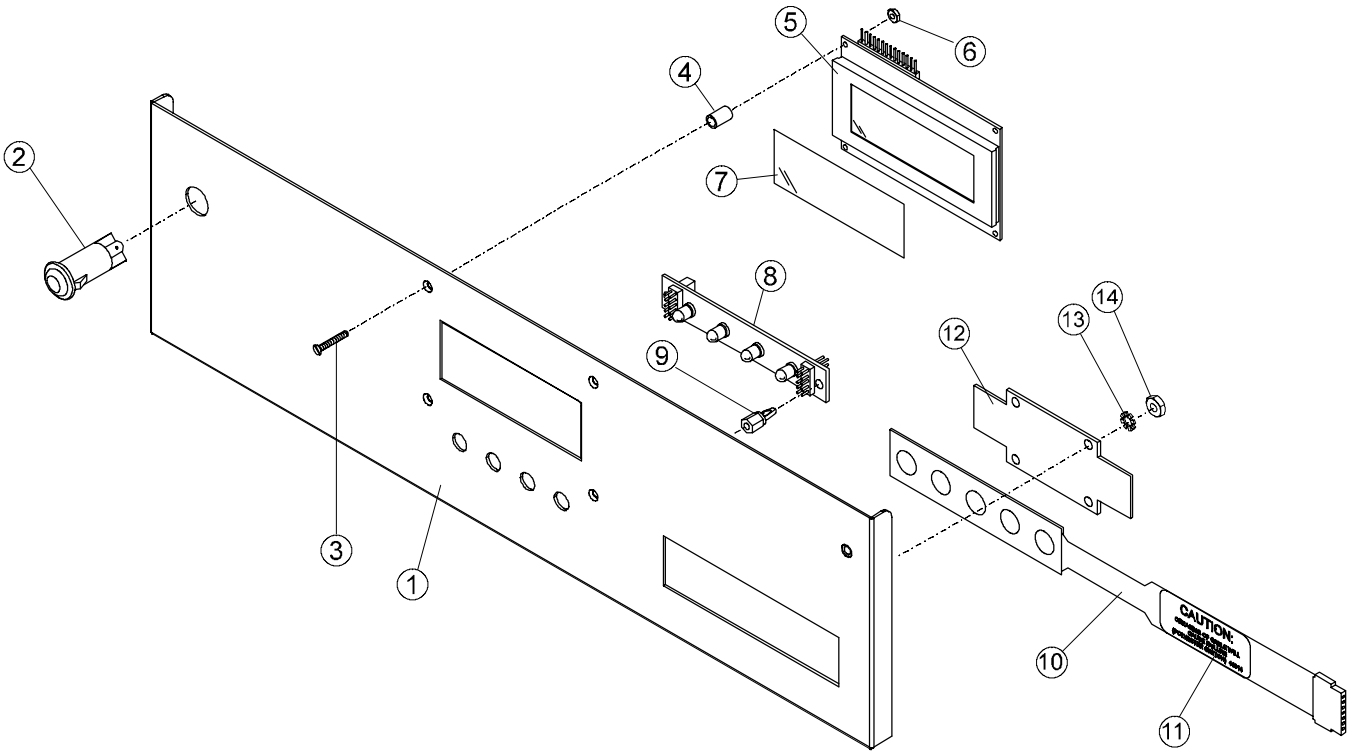
H63 Door and Beater Assembly



Item	Description	Part No.
1	Freezer Door	X17373
2	O-ring-Torque Shaft	018550
3	Torque Shaft	X17381
4	Bearing Guide	014496
5	Door Gasket	016672
6	Front Bearing	013116
7	Scraper Blade	046237
8	Clip-Scraper Blade	046238

Item	Description	Part No.
9	Beater	X46233
10	Drive Shaft	035527
11	Seal-Drive Shaft	032560
12	Draw Valve	X48373
13	O-ring	013029
14	Stud Nut	021508
15	Torque Arm	014500

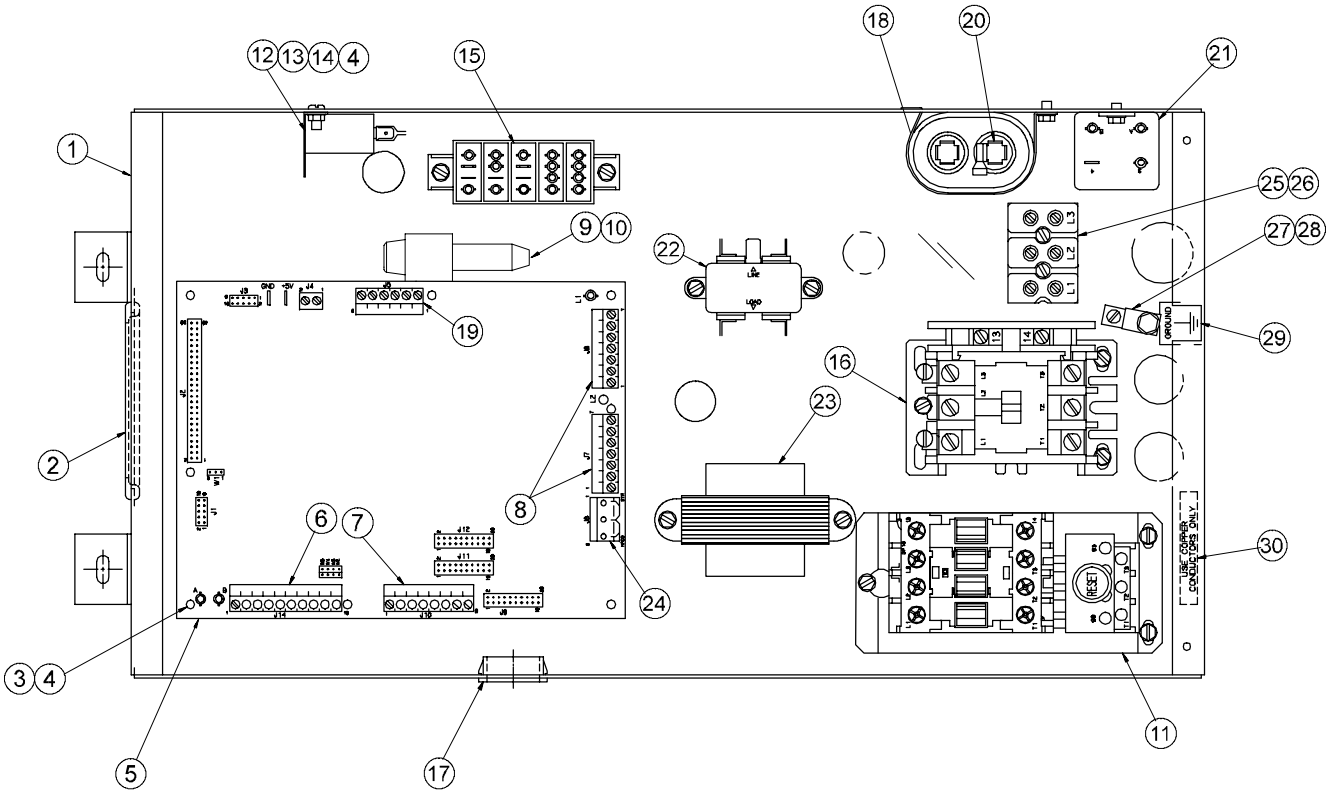
H63 Decorative Plate Assembly X48381



Item	Description	Part No.
1	Plate A.-Decorative	X48382
2	Light-Indicator-Green	048352-03
3	Screw-2-56 x 1/2 FHM-Slot	038219
4	Standoff-Lens	038225
5	Display-Liquid Crystal	038062-SER
6	Nut-Hex #2-56 Zinc Plated	038220
7	Lens-Display	038221

Item	Description	Part No.
8	PCB A.-Dec.	X44752-SER
9	Standoff-Nylon	040280-008
10	Switch-Membrane-5 Pos.	044520
11	Decal-Caution-Cable Creasing	044614
12	Plate-Back Up-Memb. Switch	044578
13	Washer-#6 Shakeproof	024541
14	Nut-6-32-Nylon-Zytel	045852

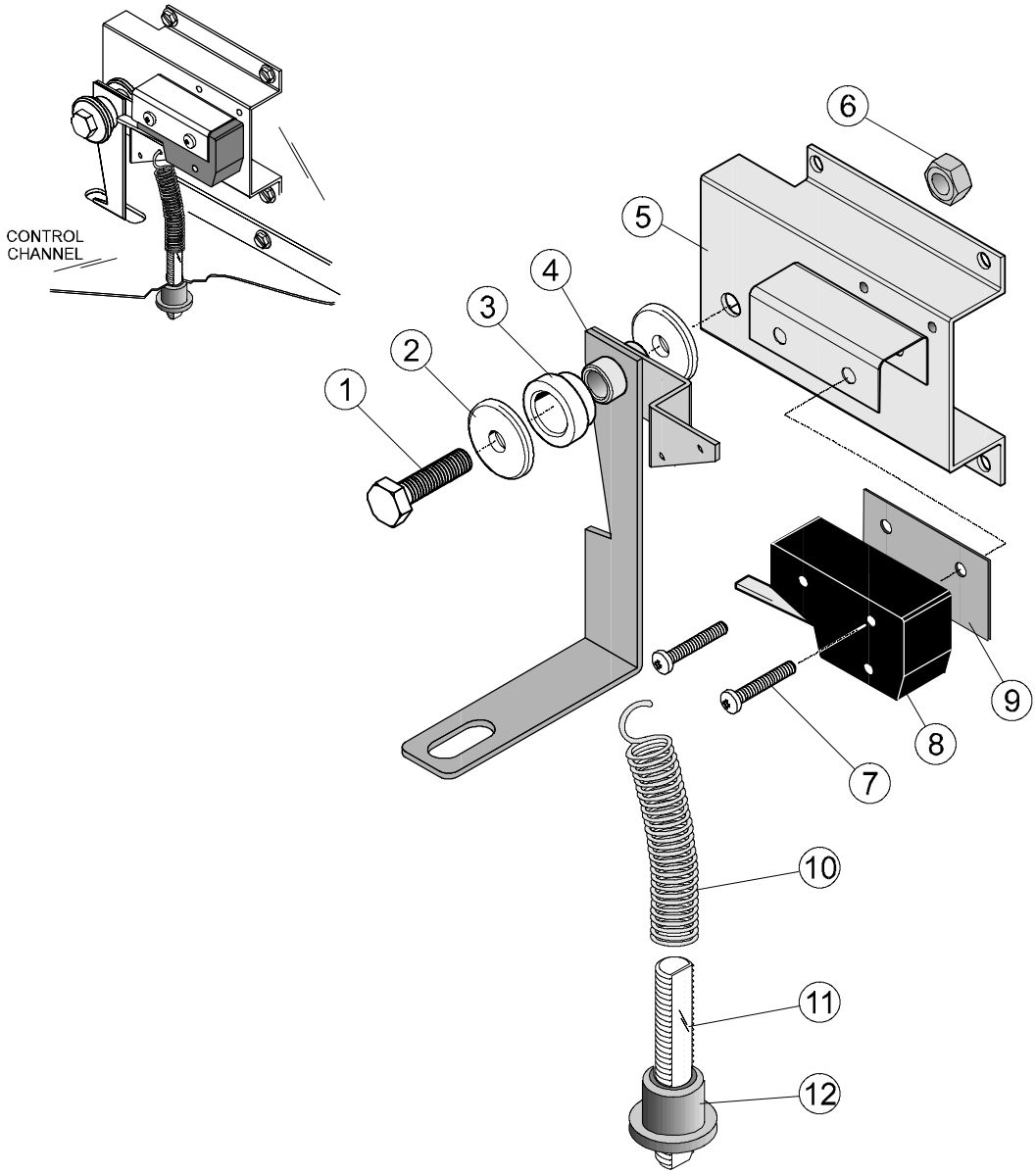
H63 Control Assembly X48412-



Item	Description	Part No.
1	Box A.-Control	X45064
2	Grommet-Ribbon Cable	044999
3	Standoff-Nylon	040280-002
4	Screw-6-32 x 3/8 Bin. Hd Slot	002201
5	PCB A.-Interface HT-Base	X44747-SER
6	Block-Terminal-Plug 10P	040322-005
7	Block-Terminal-Plug 8P	040322-004
8	Block-Terminal-Plug 7P	040322-003
9	Fuse-7 Amp-In Line	047332
10	Holder-Fuse-In Line	045606
11	Starter-1 Phase 4.5 to 7 Amp	041950-
12	Capacitor-Run	039482
13	Washer-#6 Shakeproof	024541
14	Nut-6-32 Hex	000927
15	Block-Terminal 5P	024329
16	Relay-3 Pole-20A - 208/240	012725-33

Item	Description	Part No.
17	Bushing-Snap 15/16 ID	023396
18	Strap-Capacitor	041350
19	Block-Terminal-Plug 6P	040322-002
20	Capacitor-Run	019624
21	Relay-SPDT-30A	032607-27
22	Filter-Corcom	040140-001
23	Transformer-Cont. 40VA	045754
24	Connector-Housing-5P	040080-464
25	Block-Terminal-2P	039422
	Block-Terminal-3P	039423
	Block-Terminal-3P+N	039424
26	Screw-8 x 1-1/4 Rd Hd Type B	039420
27	Lug-Grounding w/Grn Screw	020928
28	Screw-10-32 x 5/8 Taptite Hex	039382
29	Label-Grounding Symbol	017669
30	Label-Use Copper Cond. Only	025948

H60/H63 Torque Switch Assembly X46656

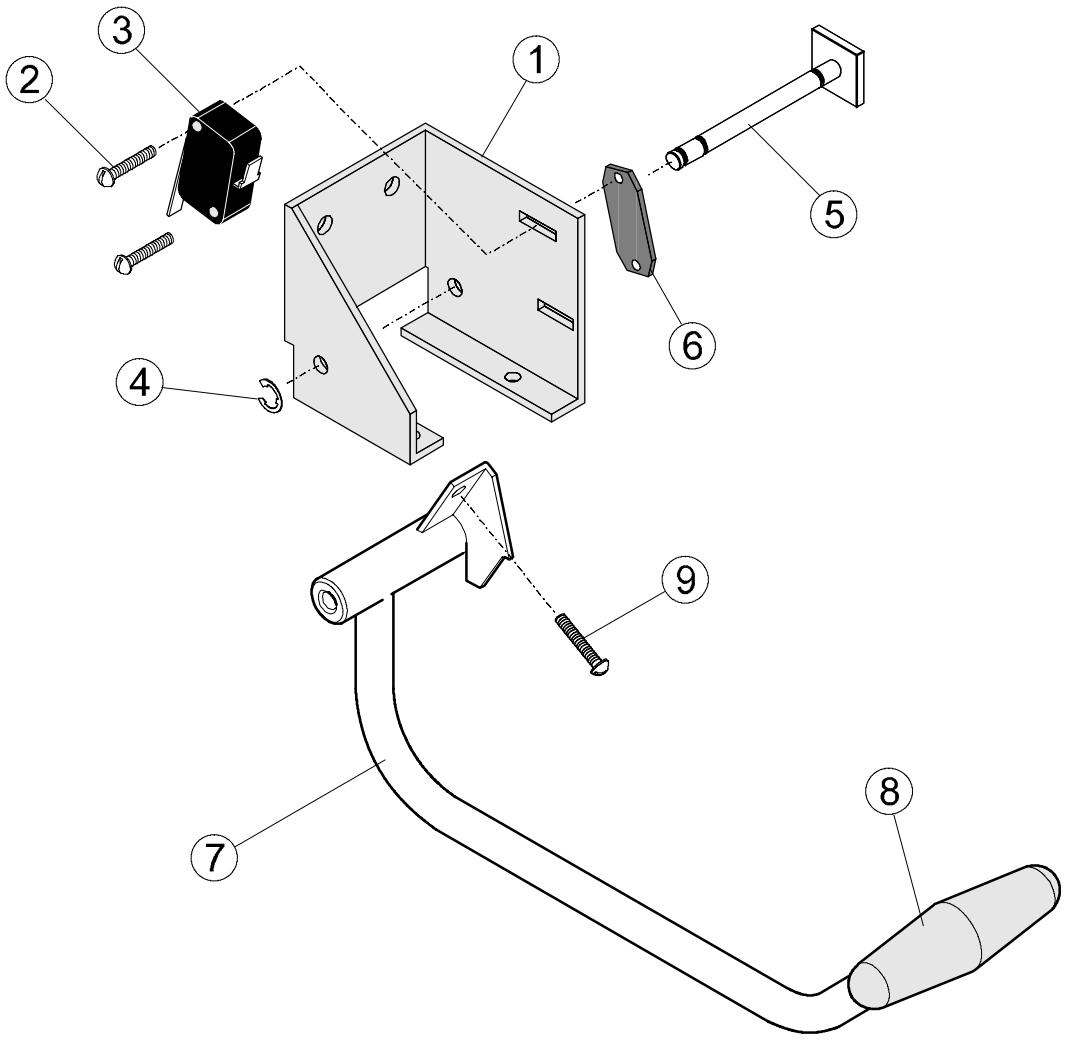


Item	Description	Part No.
1	Screw-1/4-20 x 1 Hex Hd Cap	017254
2	Bushing	037904
3	Bushing-Hub	017035
4	Hub A.-Arm	X17033
5	Bracket-Control	015526
6	Nut-1/4-20 Hex	000707

Item	Description	Part No.
7	Screw-6-32 x 7/8 Taptite Rd Hd	042514
8	Switch-Snap-20A	014472
9	Insulator-Armite	012992
10*	Spring-Torque-Black	015007
11*	Screw-Adjustment	014498
12*	Knob-Adjustment	014499

*These items are not part of the torque switch assembly (part number X46656).

H60/H63 Draw Switch Assembly X41374



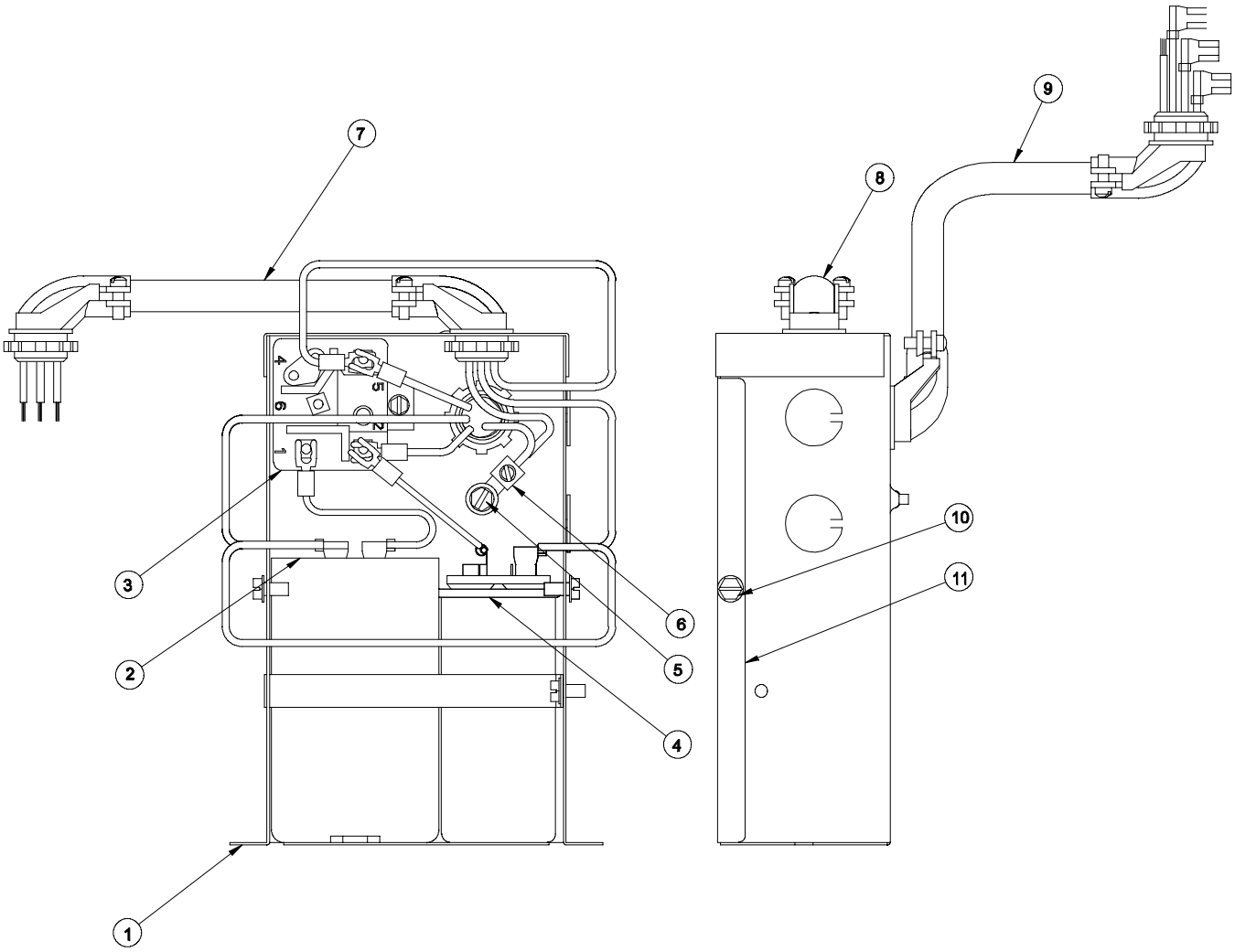
Item	Description	Part No.
1	Bracket-Draw Arm	043526
2	Screw-4-40 x 5/8 RHM ZP	027219
3	Switch-Lever-SPDT-11A	039252
4	E-Ring 3/16	049178
5	Pin-Pivot	015478

Item	Description	Part No.
6	Plate-Draw Switch	043527
7	Arm A.-Draw	X43524
*8	Knob-Draw Valve	013635
†8a	Nut-Lock Knob	013649
9	Screw-10-32 x 9/16 Dog Pt Set	038981

*This item is not part of the draw switch assembly (part number X41374).

†Not Shown

H60/H63 Capacitor & Relay Box A. X47966-



Item	Description	Part No.
1	Box-Capacitor Relay	046642
2	Capacitor-Start-Compressor	048134
3	Relay-Start-Compressor	048150 (60 Hz)
3	Relay-Start-Compressor	048133 (50 Hz)
4	Capacitor-Run-35UF/370V	029439
5	Screw-10-32 x 3/8 Taptite Hex	039381

Item	Description	Part No.
6	Lug-Grounding w/Grn. Screw	020928
7	Sleeve-Wire 1/2 ID x .031 W	022175-36
8	Connector-Box 3/8 90°	001793
9	Sleeve-Wire 1/2ID x .031 W	022175-26
10	Screw-10 x 3/8 Type B Hex	015582
11	Cover-Cap. Relay Box	046643

Model 60

* See Taylor Warranty Card
\+ Available Separately

DESCRIPTION	PART NUMBER	H60 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
ACCUMULATOR A.–AIR *5472*PRTL	X46916	1	B		
+ FITTING A.–AIR ACCUMULATOR	X48548	1	B	J5010000/UP	90
+ TUBE–VINYL 1/8 ID X 1/16 WALL	020938–6	1	C		
ACCUMULATOR A.–GLYCOL *H60*	X46650	1	B	J4019999/PRIOR	79
+ BOOT–GYLCOL ACCUMULATOR	042150	1	C	J4019999/PRIOR	79
ADAPTOR A.–CASTER	X18915	4	B		
AGITATOR A. *HT*20 QT HOPPER	X44797	1	B		
ARM–TORQUE	014500	1	B		
BEARING–GUIDE	014496	1	C		
BEARING–REAR SHELL *NICK.PLATE	031324	1	C		
+ GUIDE–DRIP SEAL	028992	1	C		
+ NUT–BRASS BEARING	028991	1	C		
+ WASHER–BEARING LOCK	012864	1	C		
BEARING–SYRUP CAB. DOOR *5472*	045339	2	C		
BEATER A.–7QT–1 PIN–SUPPORT	X46233	1	B		
PIN–SCRAPER BLADE	009839	2	C		
+ BLADE–SCRAPER–PLASTIC 9–13/16L	046237	2	C		
+ CLIP–SCRAPER BLADE	046238	2	C		
BELT–RD 3/16 W X 4.95 ID	036162	1	C	AGITATOR	
BELT–V–4L370	004227	1	C	60Hz	
BLADE A.–SPINNER *8 3/8 INCH*	X35570	1	B		
BLOCK–TERMINAL 2 POLE	039422	2	B		
BLOCK–TERMINAL 5 POLE	024329	1	B		
BLOCK–TERMINAL–PLUG 10P .2 SIP	040322–005	1	B		
BLOCK–TERMINAL–PLUG 6P .2 SIP	040322–002	1	B		
BLOCK–TERMINAL–PLUG 7P .2 SIP	040322–003	2	B		

* See Taylor Warranty Card
\+ Available Separately

DESCRIPTION	PART NUMBER	H60 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
BLOCK–TERMINAL–PLUG 8P .2 SIP	040322–004	1	B		
BRUSH–DOUBLE ENDED–PUMP& FEED TUBE	013072	1	C		
BRUSH–DRAW VALVE 1–1/2OD X 3	014753	1	C		
BRUSH–END–DOOR–SPOUT–SS–HT	039719	1	C		
BRUSH–MIX PUMP BODY–3X7WHITE	023316	1	C		
BRUSH–REAR BRG 1IN.DX2IN.LGX14	013071	1	C		
BUSHING–SYRUP CAB. DOOR *5472*	045340	2	C		
CABLE–RIBBON–10C–34L–DIL/DIL	040040–023	1	B	J3IC TO PCB LED	
CABLE–RIBBON–10C–5L–DIL/DIL	040040–024	1	B	LED TO LED	
CABLE–RIBBON–14C–14L SIP/SIPR	040040–015	1	B	LCD TO J9UC	
CABLE–RIBBON–20C–41–DIL/DIL	040040–046	1	B	J2UC TO J12IF	
CABLE–RIBBON–20C–43L–DIL/DIL	040040–045	1	B	J7UC TO J9IF	
CABLE–RIBBON–50C–35L–DIL/DIL	040040–044	1	B	J10UC TO J2IF	
CABLE–2 COND –#22 SHIELDED	045154–40	1	B	POWER CABLE IF–UC BULK# R6003001	
CAP–CAPACITOR 1–7/16D TOP LEAD	020247	1	B		
CAP–MAGNET *HT*	044796	1	B		
CAP–GLYCOL	035179	1	B	J4019999/PRIOR	79
CAP–GLYCOL	047314–1	1	B	J402000/UP	79
CAPACITOR–RUN– .8UF/400V	039482	1	B	AGITATOR	
CAPACITOR–RUN– 4UF–370V	019624	1	B	FAN MOTOR	
CAPACITOR–START– 21–25UF/220V	020246	1	B	SPINNER MOTOR	
CARD–DAILY CLEAN–HT–SHK	046701	1	C		
CASTER–SWV 5/8 STEM 4IN WHEEL	018794	4	B		
CLAMP–HOSE	047344	14	C	J4020000/UP	79
COMPRESSOR M51B143BBCA (BRISTOL)	036880–	1	*	J4063682/PRIOR	83
+ CAPACITOR–RUN– 25 UF/440V (230–60–1)	037431	1	B	J4063682/PRIOR	83
+ CAPACITOR–START-161-193UF/250V (230-60-1)	031790	1	B	J4063682/PRIOR	83
+ GROMMET–COMPRESSOR MOUNTING	037428	4	C	J4063682/PRIOR	83

* See Taylor Warranty Card
\+ Available Separately

DESCRIPTION	PART NUMBER	H60 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
+ RELAY–START–COMPRESSOR (230–60–1)	037430	1	B	J4063682/PRIOR	83
+ SLEEVE–COMP. MOUNTING	037429	4	C	J4063682/PRIOR	83
COMPRESSOR AH7513Z–AH245ET (TECUMSEH)	047520–	1	*	J4063683/UP	83
+ CAPACITOR–RUN– 35UF–370V (230–60–1)	029439	1	B	J4063683/UP	83
+ CAPACITOR–START–124–149UF/33 (230–60–1)	048134	1	B	J4063683/UP	83
+ GROMMET–COMPRESSOR MOUNTING	039923	4	C	J4063683/UP	83
+ RELAY–START–COMPRESSOR (230–60–1)	048150	1	B	J4063683/UP	83
+ SLEEVE–COMP. MOUNTING	039924	4	C	J4063683/UP	83
COMPRESSOR–AIR	032129–	1	B		
+ SWITCH–PRESSURE	016308	1	B		
+ VALVE–CHECK 1/4MP	020959	1	B		
+ TUBE–.170 ID X .250 OD	075885–14	1	C		
+ TUBE–.170 ID X .250 OD	075885–18	1	C		
CONDENSER–AC–12LX18HX4.3–5ROW	019558	1	B		
COUPLING A.–DRIVE–SPINNER	X17106	1	B		
PIN–ROLL–.094D X .562L	015971	1	C		
COVER–CONTROL BOX	046667	1	B	J4029999/PRIOR	82
COVER–CONTROL BOX	047558	1	B	J4030000/UP	82
COVER A.–HOPPER INS.–COMPLETE	X42628	1	B		
KNOB–MIX COVER	025429	1	B		
RETAINER–HOPPER COVER	042619	2	B		
SCREW–8–32 X 1/2 OVAL HD–SS	043295	8	C		
CUP–DIVIDED SYRUP	017203	1	C		
DECAL–CAUTION–AGITATOR PADDLE	045191	1	C		
DECAL–DAILY CLEANING–HT–SH–H60	046698	1	C		
DECAL–DEC–TAYLOR–H60	046178	1	C		
DECAL–MANUAL CLEANING–HT–H60	046699	1	C		
DECAL–SET 4 SYRUP FLAVOR	021523	1	C		

* See Taylor Warranty Card
\+ Available Separately

DESCRIPTION	PART NUMBER	H60 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
DECAL–SHAKEMASTER	028033	1	C		
DECAL–SYRUP FLAVOR INSTRUCTION	020997	1	C		
DECAL–TROUBLESHOOTING	038374	1	C		
DECAL–WARNING *PANEL*	036529	1	C		
DIAGRAM–WIRING *H60*	046638–	1	C		
DISPLAY–LIQUID CRYSTAL	X38062–SER	1	B		
DOOR A.–PARTIAL–1 SPT	X17373	1	B		
+ BEARING–FRONT	013116	1	C		
+ BEARING–SPINNER *452*	017032	1	C		
+ VALVE A.–DRAW *H60*	X46671	1	B		
+ O–RING–1–1/16 OD X.139W	020571	2	C		
DOOR A.–SYRUP CABINET	X45325	1	B		
DRYER–FILTER 3/8 X 1/4 SOLDER	045866	1	C	J4063682/PRIOR	83
DRYER–FILTER–HP62 3/8 X 1/4 S	047521	1	C	J4063683/UP	83
FASTENER–CLIP 1/4–20 U–TYPE	045865	10	C	PANELS & SYRUP CAB	
FILTER–CORCOM 6EH1	040140–001	1	B		
FILTER–INLINE–GLYCOL–40 MICRON	041670	1	B		
+ BOOT–GLYCOL FILTER	042132	1	C	J4019999/PRIOR	79
+ BOOT–GLYCOL FILTER	047490	1	C	J402000/UP	79
FITTING–QD FEMALE PANEL MOUNT	036295	4	B	SYRUP/RINSE LINES	
FITTING–QD MALE INSERT	036296	4	B	SYRUP/RINSE LINES	
+ O–RING 5/16OD X .070W	016272	4	C		
FUSE–15 AMP–IN LINE–NON DELAY	045293	1	C		
GASKET–DOOR 5.177ID X 5.938OD	016672	1	C		
GASKET–SYRUP DOOR	045326	1	C		
GEAR A. REDUCER	039469	1	B	AGITATOR MOTOR	
GEAR A.*REDUCER	012235	1	*		
GROMMET–RIBBON CABLE	044999	1	C	FRONT PANEL	

* See Taylor Warranty Card
\+ Available Separately

DESCRIPTION	PART NUMBER	H60 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
GUIDE A.–DRIP PAN *H60*	X46648	1	B	J4063682/PRIOR	83
GUIDE A.–DRIP PAN *H60*	X47900	1	B	J4063683/UP	83
HEATER A.–GLYCOL *H60*	X46666–	1	B	J4019999/PRIOR	79
HEATER A.–GLYCOL	X47331–	1	B	J4020000/UP	79
THERMOSTAT–HI LIMIT	035786	1	B		
HOLDER–FUSE–IN LINE–TYPE HLR	045606	1	B		
HOSE–RUBBER 5/16ID x 9/16 OD	047340–	7	C	BULK–R502011 J4020000/UP	79
HOUSING–SPINNER *4 SPIGOT*452*	017269	1	B		
+ TUBE–VINYL 3/16ID X 1/16 WALL	020940–6	2	C	BULK-100’ R30314 (SYRUP HOUSING)	
+ TUBE–VINYL 3/16ID X 1/16 WALL	020940–8	2	C	BULK-100’ R30314 (SYRUP HOUSING)	
HOUSING A.–AGITATOR *HT*	X42842	1	B		
MAGNET A.–AGITATOR–INNER	X41733	1	B		
SCREW–8–32 X 3/16 ALLEN SET	006812	2	C		
KIT A.–TUNE UP	X34615	1	C		
BEARING–FRONT	013116	1	C		
BEARING–GUIDE	014496	1	C		
GASKET–DOOR 5.177ID X 5.938OD	016672	1	C		
O–RING–.291 ID X .080W	018550	5	C	INNER FEED TUBE	
O–RING–.643 OD X .077W	018572	2	C	OUTER FEED TUBE	
O–RING–1–1/16 OD X.139W	020571	2	C	DRAW VALVE	
O–RING–5/16 OD X .070W	016272	4	C	QD FITTING	
O–RING–5/8 OD X .103W	016030	3	C	SYRUP LINES	
SEAL–DRIVE SHAFT	032560	1	C		
TOOL–CLEANING O–RING REMOVAL	048260	1	C		
KNOB–DRAW VALVE	013635	1	B		
+ NUT–LOCK KNOB	013649	1	B		
KNOB–ADJUSTMENT	014499	1	B		
+ SCREW–ADJUSTMENT	014498	1	B		

* See Taylor Warranty Card
\+ Available Separately

DESCRIPTION	PART NUMBER	H60 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
LABEL–DOOR CAUTION	032749	1	C		
LABEL–ELEC. WARNING SINGLE	024313	2	C		
LABEL–ELEC. WARNING SINGLE	032717	1	C		
LABEL–MOVING PARTS WARNING	024315	3	C		
LABEL–PLAIN W/BORDER	032177	1	C		
LENS–DISPLAY	038221	1	B		
+ STANDOFF–LENS	038225	4	C		
LIP–DRIP–NOSE CONE	036435	1	C		
LOUVER–SIDE	013631	1	B	LEFT	
LUBRICANT–TAYLOR HI PERF– 4oz TUBE	048232	1	C		
MAN–OPER *H63*	048887–M	1	C	J5040000/UP	91
MANIFOLD A.–REGULATOR *H60*	X47285	1	B		
DECAL–FLAVOR COLOR SET ’4’	022105	1	C		
FITTING 1/4 X .170 90 DEGREE	075946	1	C		
GAUGE–PRESSURE 0–60 PSI 1/8MPT	027875	3	B		
LINE A.–AIR 45 DEG BARB	X47043–12	3	B		
ELBOW–1/4MPT X 1/4BARB–45 DEG.	046925	1	B		
FERRULE–.475 ID NP BRASS	021082	2	C		
SOCKET–Q.D. CO2 90DEG 1/4BARB	021524	1	B		
TUBE–NYLOBRADE 1/4ID X 7/16OD	020568–12	1	C	BULK–100FT R30317	
NIPPLE–1/4 MPT X 2 BRASS	075940	3	B		
PLUG–1/4MP BRASS	027747	2	C		
REGULATOR–PRESSURE–CO2	027744	4	B		
VALVE–PRESSURE–RELIEF–45# 1/4MPT	047252	1	B	J3110000/UP	76
VALVE–PRESSURE–RELIEF–45# 1/8MPT	021148	1	B	J3109999/PRIOR	76
MOTOR–1.0 HP	013102–	1	*		
CAPACITOR–START	035798	1	B	LEESON–230–60–1	
CAPACITOR–RUN	036084	1	B	LEESON–230–60–1	

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\+ Available Separately

DESCRIPTION	PART NUMBER	H60 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
CAPACITOR–START	033043	1	B	CENTURY–230–60–1	
CAPACITOR–RUN	033047	1	B	CENTURY–230–60–1	
MOTOR–1/12 HP 3450 RPM	016005–	1	B	SPINNER	
MOTOR–AGITATOR	039468–	1	B		
+ BRACKET–AGITATOR MOTOR *HT*	037980	1	B		
MOTOR–FAN 120 W 208/230V	041401–	1	B	60Hz	
+ FAN–4 BLADE 12 PUSH 26DEG CW	029771	1	B		
NUT–STUD *GENERAL USAGE*	021508	4	B		
NYLON–SPIRAL WRAP–BLUE–2	041582–4	1	C		
NYLON–SPIRAL WRAP–BROWN–2	041582–1	1	C		
NYLON–SPIRAL WRAP–RED–2	041582–2	1	C		
PAIL–MIX 10 QT.	013163	1	C		
PAN–DRIP 19–1/2 LONG	035034	1	B		
PANEL A.–FRONT *H60*	X46634	1	B		
PANEL A.–SIDE LOWER (LEFT)	X24397	1	B	J4063682/PRIOR	83
PANEL A.–SIDE LOWER (RIGHT)	X34681	1	B	J4063682/PRIOR	83
PANEL– SIDE UPPER (MIDDLE LEFT)	024576	1	B	J4063682/PRIOR	83
PANEL– SIDE UPPER (MIDDLE RIGHT)	046669	1	B	J4029999/PRIOR	82
PANEL– SIDE UPPER (MIDDLE RIGHT)	047557	1	B	J4030000 – J4063682	82
PANEL–REAR W/LOUVERS	026980–SP	1	B		
PANEL–SIDE (LEFT)	X48285	1	B	J4063683/UP	84
PANEL–SIDE (RIGHT)	X48286	1	B	J4063683/UP	84
PANEL–SIDE UPPER (TOP RIGHT)	042317	1	B		
PCB A.–CONTROL *H60*	X46743–SER	1	*		
Includes: PCB A.–UNIVERSAL CONTROL 64K (BASE)	X44863–SER	1	*		
CHIP–SOFTWARE	X40840	1	*		
PCB A.–INTERFACE–HT–BASE	X44747–SER	1	*	NO PERSONALITY BD-TORQ. CONTROL	
PCB A.–LED–4 POSITION	X44752–SER	2	B		

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DESCRIPTION	PART NUMBER	H60 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
PIN–RETAINING–HOPPER COVER	043934	4	B		
PLATE–HINGE LOWER	045338	1	B	SYRUP CAB DOOR	
PLATE–HINGE UPPER	045337	1	B	SYRUP CAB DOOR	
PLATE A.–DEC *H60*PRTL	X46646	1	B		
+ DECAL–CAUTION–CABLE CREASING	044614	2	C		
+ PLATE–BACK UP–MEMBRANE SWITCH	044578	2	B		
PLUG–Q.D. CO2 1/8 MP	021077	3	B	SYRUP LINES	
PLUG–Q.D. LIQ. 3/4–18 FP	021081	3	B	SYRUP LINES	
+ O–RING–5/8 OD X .103W	016030	3	C	SYRUP LINES	
PROBE A.–MIX LOW–HT	X42077	1	B		
+ DISC–PROBE *SQ HOLE*	030965	1	B		
+ SPACER–PROBE *SQ HOLE*	030966	1	B		
PROBE A.–MIX OUT–SQUARE HOLE	X41348	1	B		
+ O–RING –1/2OD X .070W	024278	2	C		
+ SPACER–PROBE–ROUND HOLE–5/8DIA	041347	1	B		
+ SPACER–PROBE–SQUARE HOLE–7/8	041346	1	B		
PROBE–THERMISTOR–BARREL–2% TOL	038061–BLK	1	B	BARREL	
PROBE–THERMISTOR–HOPPER–2% TOL	039470–BLK	2	B	HOPPER & HEATER	
PULLEY–AGT DR–1.910PDX5/16 THD	036210	1	B	60Hz ONLY	
+ SCREW–8–32 X 1/4 ALLEN SET	043603	1	C		
PULLEY–AGT MTR–1.910PDX3/8BORE	042063	1	B		
+ SCREW–8–32 X 1/4 ALLEN SET	043603	2	C		
PULLEY–AK25–5/8	019153	1	B	MOTOR–60Hz ONLY	
PULLEY–AK64–5/8	007538	1	B	GEAR	
PUMP–GLYCOL–1/8NPT–1650 RPM	041785	1	B		
+ BOOT–GLYCOL PUMP	042131	1	C		
RELAY–3 POLE–20A–208/240 50/60	012725–	1	B		
RELAY–SPDT–30 A–240 V	032607–	1	B	HEATER	

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DESCRIPTION	PART NUMBER	H60 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
RELAY–SPINNER MOTOR–1/2HP–230V	016006–	1	B		
RESTRICTOR–SYRUP 452 BLACK	030917	2	C		
SANITIZER KAY–5	041082	1	C		
SHAFT–BEATER	035527	1	B		
+ SEAL–DRIVE SHAFT	032560	1	C		
SHAFT–DRIVE–FLEXIBLE	016787	1	B	NEW DESIGN–PRE LUBED	82
+ SCREW–8–32 X 3/16 ALLEN SET	006812	2	C		
+ SHAFT–EXTENSION *452–453*	034693	1	B		
SHELL A.–INSULATED *H60*HOOD	X46622	1	*		
+ STUD–NOSE CONE 5/16–18X3/8–16	011390	4	B		
SHIELD–MIX–GEAR REDUCER 3–3/8	013356	1	B		
SHIELD–SPLASH–WIRE 13–11/16L	046177	1	B		
SHROUD–CONDENSER *SH–HT–GEN 3	041728	1	B		
SHROUD–LEFT *5472 HT*	042083	1	B		
SHROUD–RIGHT *5472 HT*	042084	1	B		
SPRING–TORQUE*BLACK*	015007	1	B		
STARTER–BEATER LINE	041950–	1	B		
SWITCH A.–TORQUE *H60*	X46656	1	B		
HUB A.–ARM	X17033	1	B		
SWITCH–SNAP–SPDT–20A/125–250V	014472	1	B		
SWITCH A.–DRAW *452 HT*GEN 3	X41374	1	B		
ARM A.–DRAW *452* HT*	X43524	1	B		
BRACKET–DRAW ARM *452 HT*	043526	1	B		
CLIP–HAIRPIN .026 WIRE 37/64L	014051	1	C		
PIN–PIVOT	015478	1	B		
PLATE–DRAW SWITCH *452 HT*	043527	1	B		
SCREW–10–32X9/16 DOG PT SET	038981	1	B		
SWITCH–LEVER–SPDT–11A–125–250V	039252	1	B		

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DESCRIPTION	PART NUMBER	H60 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
SWITCH–MEMBRANE–5 POSITION–20L	044521	1	B		
SWITCH–MEMBRANE–5 POSITION–8L	044520	1	B		
SWITCH–PRESSURE 25PS OPEN 405	030886	1	B	J40663682/PRIOR	83
SWITCH–PRESSURE 440PSI – SOLDER	046362	1	B	J4063683/UP	83
+ BOOT–PRESSURE SWITCH	034682	1	C		
SWITCH–TOGGLE–DPDT*ON–NONE–ON	024295	1	B	POWER	
TANK–SYR–4 QT	045533	3	B		
+ DECAL–SYRUP TANK INSTRUCTION	045533–1	3	C		
+ TIP–NYLON–WHITE	042747	6	C		
+ GASKET	016037	3	C	FOR COVER	
+ TUBE–DIP	015441–7	3	B		
+ O–RING	018550	3	C	FOR DIP TUBE	
TANK–GLYCOL (PLASTIC)	047314	1	B	J4020000/UP	79
TEE–5/16 BARB BRASS	047324	1	C	J4020000/UP	79
TEE–ACCESS	047587	1	C	J4020000/UP	79
TORQUE A. *452–453*	X17381	1	B		
+ O–RING–.291 ID X .080W	018550	2	C		
TRANS.–CONT.–40VA 120/200/240V	045754	1	B		
TRANS.–CONT.–ANTICIPATOR 20 VA	016352–	1	B		
TRAY–DRIP 14.8	046275	1	B		
TRIM–REAR CORNER *H60*	046668	2	B		
TUBE A.–FEED–OUTER–HT	X34641	1	B		
+ O–RING–.643 OD X .077W	018572	2	C		
TUBE A.–FEED–SC–INNER–1/4H	X32824–5	1	B	START AT 03/12/95	91
TUBE A.–FEED–SC–INNER–3/16H	X32824–3	1	B	PRIOR TO 03/12/95	91
+ O–RING–.291 ID X .080W	018550	3	C		
VALVE–ACCESS 1/4FL X 3/8SDR–90	044455	1	B		
VALVE–ACCESS 1/4 MFL X 1/4S–90	047016	1	B	J4063683/UP	

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DESCRIPTION	PART NUMBER	H60 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
VALVE A.–SOLENOID–3 FLV *H60*	X46639–03	1	B		
BRACKET–SOLENOID *H60*	046640	1	B		
ELBOW–1/4MP X 1/4BARB–PLASTIC	016614	3	B		
ELBOW–1/4MP X 3/16BARB–PLASTIC	016615	3	B		
FERRULE–.475 ID NP BRASS	021082	3	C		
LABEL–1/4 X 1–1/2 LONG–BROWN	022710	1	C		
LABEL–1/4 X 1–1/2 LONG–DK BLUE	022708	1	C		
LABEL–1/4 X 1–1/2 LONG–RED	022707	1	C		
TUBE–NYLOBRADE 1/4ID X 7/16OD	020568–44	3	C	BULK–100FT R30317	
TUBE–VINYL 3/16ID X 1/16 WALL	020940–15	3	C	BULK–100FT R30314	
VALVE–SOLENOID–3/16ORIFICE–SS	041589–03	3	B		
VALVE A.–SOLENOID–RINSE *H60*	X46657–	1	B		
TUBE–VINYL 3/16ID X 1/16 WALL	020940–11	1	C	BULK–100FT R30314	
VALVE–SOLENOID–3/32ORIFICE–SS	041599–	1	B		
VALVE–EXP–AUTO–1/4S X1/4 FPT	046365	1	B		
BOOT–EXPANSION VALVE	027137	1	C		
VALVE–SOLENOID	044125–	1	B	ACCUMULATOR	
WASHER–PLASTIC PIVOT	013808	2	C	SYRUP LINES	
WATER COOLED					
BLOWER–100 CFM	012796–	1	B		
CONDENSER–W/C	047540	1	B		
GUARD–BLOWER	022505	1	B		
HOSE–RUBBER 1/2 X 7/8	R50200	4.5 ft	C		
RECEIVER A.–REFRIGERANT	X48107	1	B		
SWITCH–PRESSURE 350 PSI	048231	1	B		
TEE–ACCESS	026688	1	B		
VALVE–WATER 3/8 REG/HEAD	046686	1	B		

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DESCRIPTION	PART NUMBER	H60 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
50 Hz					
BELT	007098	1	C		
CAPACITOR–RUN	012906	1	B	J4063682/PRIOR (BRISTOL)	
CAPACITOR–RUN	029439	1	B	J4063683/UP (TECUMSEH)	
CAPACITOR–RUN (CENTURY)	033050	1	B	BEATER MOTOR	
CAPACITOR–RUN (LEESON)	036084	1	B	BEATER MOTOR	
CAPACITOR–START	038143	1	B	J4063682/PRIOR (BRISTOL)	
CAPACITOR–START	048133	1	B	J4063683/UP (TECUMSEH)	
CAPACITOR–START (CENTURY)	033043	1	B	BEATER MOTOR	
CAPACITOR–START (LEESON)	035798	1	B	BEATER MOTOR	
MOTOR–FAN 100WATT	047178–34	1	B		
PULLEY–AGITATOR DRIVE	045717	1	B		
PULLEY–AK 30 x 5/8 (MOTOR)	033559	1	B		
RELAY	038146	1	B	J4063682/PRIOR (BRISTOL)	
RELAY	048134	1	B	J4063683/UP (TECUMSEH)	

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Model H63

DESCRIPTION	PART NUMBER	H63 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
ACCUMULATOR–COPPER 2”DIA	047062	1	B		
ADAPTOR A.–CASTER	X18915	4	B		
AGITATOR A. *HT*20 QT HOPPER	X44797	1	B		
ARM–TORQUE	014500	1	B		
BEARING–FRONT	013116	1	C		
BEARING–GUIDE	014496	1	C		
BEARING–REAR SHELL *NICK.PLATE	031324	1	C		
+GUIDE–DRIP SEAL	028992	1	C		
+NUT–BRASS BEARING	028991	1	C		
+WASHER–BEARING LOCK	012864	1	C		
BEATER A.–7QT–1 PIN–SUPPORT	X46233	1	B		
+BLADE–SCRAPER–PLASTIC 9–13/16L	046237	2	C		
+CLIP–SCRAPER BLADE	046238	2	B		
BELT–RD 3/16 W X 4.95 ID	036162	1	C	AGITATOR	
BELT–V–4L370	004227	1	C		
BLOCK–TERMINAL 2P	039422	2	B	SINGLE PHASE ONLY	
BLOCK–TERMINAL 3P	039423	2	B	THREE PHASE ONLY	
BLOCK–TERMINAL 5 POLE	024329	1	B		
BLOCK–TERMINAL–PLUG 10P .2 SIP	040322–005	1	B		
BLOCK–TERMINAL–PLUG 6P .2 SIP	040322–002	1	B		
BLOCK–TERMINAL–PLUG 7P .2 SIP	040322–003	2	B		
BLOCK–TERMINAL–PLUG 8P .2 SIP	040322–004	1	B		
BRUSH–DOUBLE ENDED–PUMP&FEED T	013072	1	C		
BRUSH–DRAW VALVE 1–1/2”OD X 3”	014753	1	C		
BRUSH–END–DOOR–SPOUT–SS–HT	039719	1	C		
BRUSH–MIX PUMP BODY–3”X7”WHITE	023316	1	C		

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DESCRIPTION	PART NUMBER	H63 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
BRUSH–REAR BRG 1IN.DX2IN.LGX14	013071	1	C		
CABLE–RIBBON–10C–34”L–DIL/DIL	040040–023	1	B	J3IF–LED	
CABLE–RIBBON–14C–14”L SIP/SIPR	040040–015	1	B	J9UC–LCD	
CABLE–RIBBON–20C–33”L–DIL/DILR	040040–027	1	B	J7UC–J9IF	
CABLE–RIBBON–20C–35”L–DIL/DIL	040040–026	1	B	J2UC–J12IF	
CABLE–RIBBON–50C–20”L–DIL/DIL	040040–011	1	B	J10UC–J2IF	
CABLE–2 COND –#22 SHIELDED	045154–22	1	B	POWER CABLE IF–UC BULK# R6003001	
CAPACITOR–RUN– .8UF/400V	039482	1	B	AGITATOR MOTOR	
CAPACITOR–RUN– 4UF–370V	019624	1	B	FAN MOTOR	
CARD–DAILY CLEAN–HT–SHK	048625	1	C		
CASTER–SWV 5/8 STEM 4IN WHEEL	018794	4	B		
CLAMP–HOSE 9/16 CRIMP TYPE	047344	14	C	GLYCOL TUBE	
COMPRESSOR AH7513Z–AH245ET	047520–	1	*		
+CAPACITOR–RUN– 35UF/370V	029439	1	B	SINGLE PHASE ONLY	
+CAPACITOR–START–124–149UF/330V	048134	1	B	SINGLE PHASE ONLY	
+GROMMET–COMPRESSOR MOUNT–AH	039923	4	C		
+RELAY–START–COMPRESSOR	048150	1	B	SINGLE PHASE ONLY	
+SLEEVE–MOUNTING–COMP.–AH	039924	4	B		
CONDENSER–AC–12LX18HX4.3–5ROW	019558	1	B	AIR COOLED	
COVER A.–HOPPER INS.–COMPLETE	X42628	1	B		
KNOB–MIX COVER	025429	1	B		
+PIN–RETAINING–HOPPER COVER	043934	4	B		
+RETAINER–HOPPER COVER	042619	2	B		
+SCREW–8–32 X 1/2 OVAL HD–SS	043295	8	C		
DECAL–CAUTION–AGITATOR PADDLE	045191	1	C	HOPPER COVER	
DECAL–DAILY CLEANING–HT–SH–H60	046698	1	C		
DECAL–DEC–TAYLOR–H63	048358	1	C		
DECAL–MANUAL CLEANING–HT–H60	046699	1	C		

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DESCRIPTION	PART NUMBER	H63 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
DECAL–TROUBLESHOOTING	038374	1	C		
DIAGRAM–WIRING *H63*	048384–	1	C		
DISPLAY–LIQUID CRYSTAL	X38062–SER	1	B		
DOOR A.–PARTIAL–1 SPT *452	X17373	1	B		
+GASKET–DOOR 5.177ID X 5.938OD	016672	1	C		
+O–RING–1–1/16 OD X .139W	013029	2	C	DRAW VALVE	
+VALVE A.–DRAW *H63*	X48373	1	B		
DRYER–FILTER–HP62–3/8 X 1/4S	047521	1	C		
FILTER–CORCOM 6EH1	040140–001	1	B		
FILTER–INLINE–GLYCOL–40 MICRON	041670	1	B		
+BOOT–GLYCOL FILTER	047490	1	C		
FLUID A.–HEAT TRANSFER	X39667	1	C		
FUSE–7 AMP–IN LINE–NOW DELAY	047332	1	C		
GEAR A.*REDUCER	012235	1	*		
GEAR A.*REDUCER–AGITATOR	047988	1	B	AGITATOR	
GUIDE A.–DRIP PAN *H60*	X47900	1	B		
HEATER A.–GLYCOL–2500W *H60*	X47331–	1	B		
+THERMOSTAT–HI LIMIT	035786	1	B		
HOLDER–FUSE–IN LINE–TYPE HLR	045606	1	B		
HOSE–RUBBER 5/16”ID X 9/16”OD	047340–	12ft	C	GLYCOL TUBE–ORDER BULK# R502011	
HOUSING A.–AGITATOR *HT*	X42842	1	B		
+CAP–MAGNET *HT*	044796	1	B		
MAGNET A.–AGITATOR–INNER	X41733	1	B		
SCREW–8–32 X 3/16 ALLEN SET	006812	2	C		
KIT A.–TUNE UP*H63*	X48404	1	C		
BEARING–FRONT	013116	1	C		
BEARING–GUIDE	014496	1	C		
GASKET–DOOR 5.177ID X 5.938OD	016672	1	C		

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\+ Available Separately

DESCRIPTION	PART NUMBER	H63 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
O–RING–.291 ID X .080W	018550	5	C	INNER FEED TUBE/TORQUE SHAFT	
O–RING–.643 OD X .077W	018572	2	C	OUTER FEED TUBE	
O–RING–1–1/16 OD X .139W	013029	2	C	DRAW VALVE	
SEAL–DRIVE SHAFT	032560	1	C		
TOOL–CLEANING O–RING REMOVAL	048260	1	C		
KNOB–ADJUSTMENT	014499	1	B	TORQUE SWITCH	
+SCREW–ADJUSTMENT	014498	1	B		
KNOB–DRAW VALVE	013635	1	B		
+NUT–LOCK KNOB	013649	1	B		
LABEL–MOVING PARTS WARNING	024315	3	C		
LENS–DISPLAY	038221	1	B		
+STANDOFF–LENS	038225	4	C		
LIGHT–INDICTOR–GREEN–ROUND	048352–03	1	B		
LIP–DRIP–NOSE CONE	036435	1	C		
LOUVER–SIDE	013631	1	B	LEFT SIDE	
LUBRICANT–TAYLOR HI PERF–4 OZ	048232	1	C		
MAN–OPER *H63*	048887–M	1	C	J5040000/UP	91
MOTOR–1.0 HP	013102–	1	*		
MOTOR–AGITATOR	047987–	1	B		
MOTOR–FAN 120 W 208/230V 60HZ	041401–	1	B		
+FAN–4 BLADE 12 ” PUSH 26DEG CW	029771	1	B		
NUT–STUD *GENERAL USAGE*	021508	4	B		
PAIL–MIX 10 QT.	013163	1	C		
PAN–DRIP 19–1/2 LONG	035034	1	B		
PANEL A.–FRONT *H63*	X48371	1	B		
PANEL A.–SIDE *H60*LEFT	X48285	1	B		
PANEL A.–SIDE *H60*RIGHT	X48286	1	B		
PANEL–REAR W/LOUVERS *5472*	026980–SP	1	B		

* See Taylor Warranty Card
\+ Available Separately

DESCRIPTION	PART NUMBER	H63 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
PANEL–SERVICE *H63*	048380	1	B		
PANEL–SIDE *5472 HT* UPPER	042317	1	B	RIGHT SIDE	
PCB A.–CONTROL *H63*	X48463–SER	1	*		
+CHIP–SOFTWARE *H63*	X40854	1	*		
+PCB A.–UNIVERSAL CONTROL 64K	X44863–SER	1	*	BASE BOARD	
PCB A.–INTERFACE–HT–BASE	X44747–SER	1	*		
PCB A.–LED–4 POSITION	X44752–SER	1	B		
PLATE A.–DEC–H63*PARTIAL	X48382	1	B		
PROBE A.–MIX LOW–HT	X42077	1	B		
PROBE A.–MIX OUT–SQUARE HOLE	X41348	1	B		
+O–RING–1/2OD X .070W	024278	2	C		
PROBE–THERMISTOR–BARREL–2% TOL	038061–BLK	1	B	BARREL	
PROBE–THERMISTOR–HOPPER–2% TOL	039470–BLK	2	B	HOPPER AND HEATER	
PULLEY–AGT DR–1.910PDX5/16 THD	036210	1	B	AGITATOR DRIVE	
+SCREW–8–32 X 1/4 ALLEN SET	043603	1	C		
PULLEY–AGT MTR–1.910PDX3/8BORE	042063	1	B	AGITATOR MOTOR	
+SCREW–8–32 X 1/4 ALLEN SET	043603	2	C		
PULLEY–AK25–5/8	019153	1	B	BEATER MOTOR	
PULLEY–AK64–5/8	007538	1	B	GEAR	
PUMP–GLYCOL–1/8NPT–1650 RPM	041785	1	B		
+BOOT–GLYCOL PUMP	042131	1	C		
RELAY–3 POLE–20A–208/240 50/60	012725–	1	B	MAIN COMPRESSOR	
RELAY–SPDT–30 A–240 V	032607–	1	B	BLOWER MOTOR	
SANITIZER KAY–5 CASE 125 PACKETS	041082	1	C		
SHAFT–BEATER	035527	1	B		
+SEAL–DRIVE SHAFT	032560	1	C		
SHELL A.–INSULATED *H60*HOOD	X46622	1	*		
SHIELD–MIX–GEAR REDUCER 3–3/8”	013356	1	B		

* See Taylor Warranty Card
\+ Available Separately

DESCRIPTION	PART NUMBER	H63 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
SHIELD–SPLASH–WIRE 13–11/16L	046177	1	B		
SPRING–TORQUE*BLACK*	015007	1	B		
STARTER–1 PHASE–4.5 TO 7 AMP	041950–27K	1	B	SINGLE PHASE ONLY	
STARTER–3 PHASE– 3 TO 5 AMP	041950–33J	1	B	THREE PHASE ONLY	
STUD–NOSE CONE 5/16–18X3/8–16	011390	4	B		
SWITCH A.–DRAW *452 HT*GEN 3	X41374	1	B		
ARM A.–DRAW *452* HT*	X43524	1	B		
BRACKET–DRAW ARM *452 HT*	043526	1	B		
CLIP–HAIRPIN .026 WIRE 37/64L	014051	1	C		
PIN–PIVOT	015478	1	B		
SWITCH–LEVER–SPDT–11A–125–277V	039252	1	B		
SWITCH A.–TORQUE *H60*	X46656	1	B		
+HUB A.–ARM	X17033	1	B		
+SWITCH–SNAP–SPDT–20A/125–250V	014472	1	B		
SWITCH–MEMBRANE–5 POSITION–8”L	044520	1	B		
SWITCH–PRESSURE 440 PSI–SOLDER	046362	1	B		
+BOOT–PRESSURE SWITCH	034682	1	C		
SWITCH–TOGGLE–DPDT*ON–NONE–ON	024295	1	B	POWER SWITCH	
TANK–GLYCOL 1.5QT–PLASTIC	047314	1	B		
TORQUE A. *452–453*	X17381	1	B		
+O–RING–.291 ID X .080W	018550	2	C		
TRANS.–CONT.–40VA 120/200/240V	045754	1	B		
TRAY–DRIP 14.8	046275	1	B		
TRIM–REAR CORNER *H60*	046668	2	B		
TUBE A.–FEED–OUTER–HT	X34641	1	B		
+O–RING–.643 OD X .077W	018572	2	C		
TUBE A.–FEED–SC–INNER	X32824–5	1	B		
+O–RING–.291 ID X .080W	018550	3	C		

* See Taylor Warranty Card
\+ Available Separately

DESCRIPTION	PART NUMBER	H63 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
TUBE–.170 ID X .250 OD	075885–14	1	C	ORDER IN BULK R40302	
TUBE–.170 ID X .250 OD	075885–18	1	C	ORDER IN BULK R40302	
VALVE–ACCESS 1/4FL X 3/8SDR–90	044455	1	B		
VALVE–ACCESS–1/4 MFLX1/4 S–90	047016	1	B		
VALVE–EXP–AUTO–1/4S X1/4 FPT	046365	1	B		
+BOOT–EXPANSION VALVE	027137	1	C		
WATER COOLED					
BLOWER–100 CFM	012796–	1	B		
BRACKET–MOUNTING–WATER VALVE	038777	1	B		
CONDENSER–W/C	047540	1	B		
GUARD–BLOWER	022505	1	B		
HOSE–RUBBER 1/2” X 7/8	R50200	4.5 ft	C		
SWITCH–PRESSURE 350 PSI	046431	1	B		
TEE–ACCESS	026688	1	B		
VALVE–WATER 3/8 REG/HEAD	046686	1	B		
50 Hz					
BELT	007098	1	C		
BLOCK–TERMINAL–7 POLE GREEN	024156	1	B		
BLOCK–TERMINAL 3P+ N	039424	1	B	3 PHASE	
PULLEY–AGITATOR DRIVE	045717	1	B		
PULLEY–AK 30 x 5/8 (MOTOR)	033559	1	B		
RELAY–START–COMPRESSOR	048133	1	B	1 PHASE	

* See Taylor Warranty Card
+ Available Separately

DESCRIPTION	PART NUMBER	H63 QTY.	WARR. CLASS	REMARKS	PARTS UPDATE
BURGER KING					
COLLAR–HOLDING	019481	4	B	HOLDS SYRUP RAIL	
SCREW–10–32X3/4 OVAL HD–SS	001086	4	C		
COVER–TOUCH PAD	048379	1	B		
DECAL–DEC–BURGER KING–H63	048361	1	C	LARGE	
DECAL–DEC–BURGER KING–H63	048362	1	C	SMALL 2.1/5 X 4	
JAR–SYRUP–PLASTIC	036573	2	B		
LADEL–1 OZ–1/2" OFFSET	048454	2	B		
LID–SYRUP JAR–HINGED	048462	2	B		
MAGNET–4.250 X 3	048543	1	B		
MAN–OPER *H63* BURGER KING	048888–M	1	C	J5040000/UP	91
PANEL A.–FRONT *H63* SPINNER	X48371–SP	1	B		
PANEL A.–SIDE *H60*LEFT	X48285–SP	1	B		
PANEL A.–SIDE *H60*RIGHT	X48544	1	B		
RAIL A.–SYRUP *H63*BK*ROOM TEMP	X48449	1	B		
SPINNER A.–PANEL W/FILTER	X48375–	1	B		
DISC–SPINNER	013359	1	B		
FILTER–CORCOM 2VR1	032567	1	B		
HOOK–UPPER SPINNER	011173	1	B		
MOTOR–SPINNER	020101–	1	B		
MOUNT A.–PANEL SPINNER	X48376	1	B		
PLATE A.–SWITCH *SPINNER A.*	X34363	1	B		
SCREW–SPINNER DISC	013360	1	B		
STUD–1/4–20 X 2 1/4 STL.ZP	020102	1	B		
SWITCH–SNAP–SPDT–20A/125–250V	013192	1	B		
STANDOFF ASSEMBLY	X48446	1	B		
TRAY–PARTS–BARREL 7QT–19IN	048387	1	C		

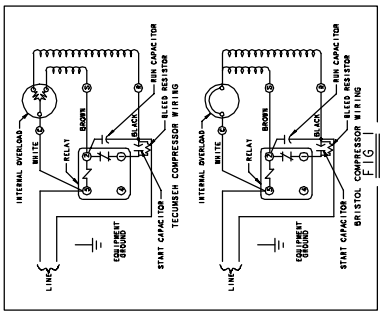
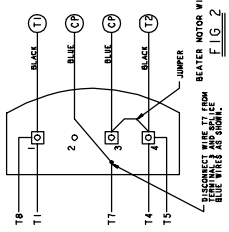
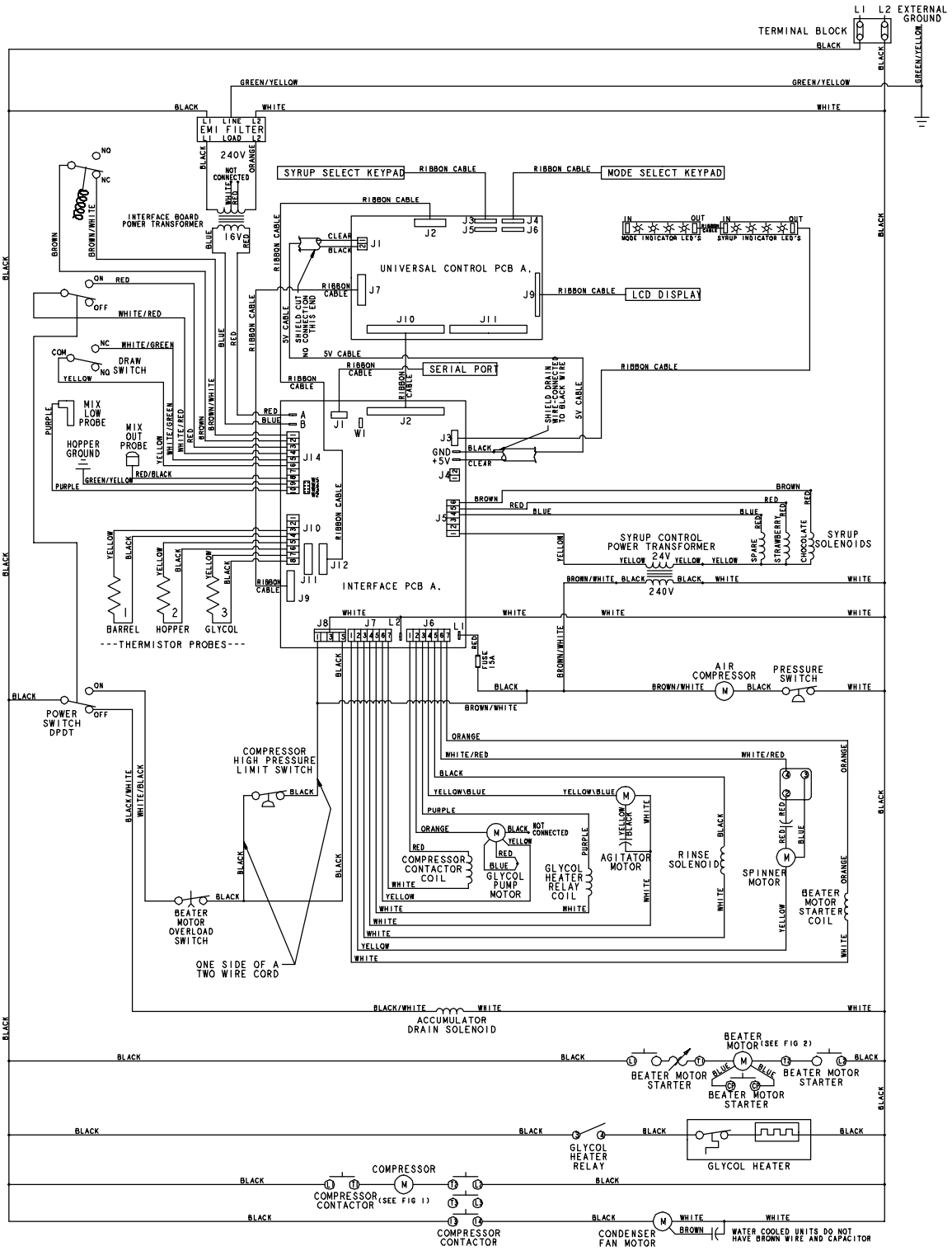


FIG 1



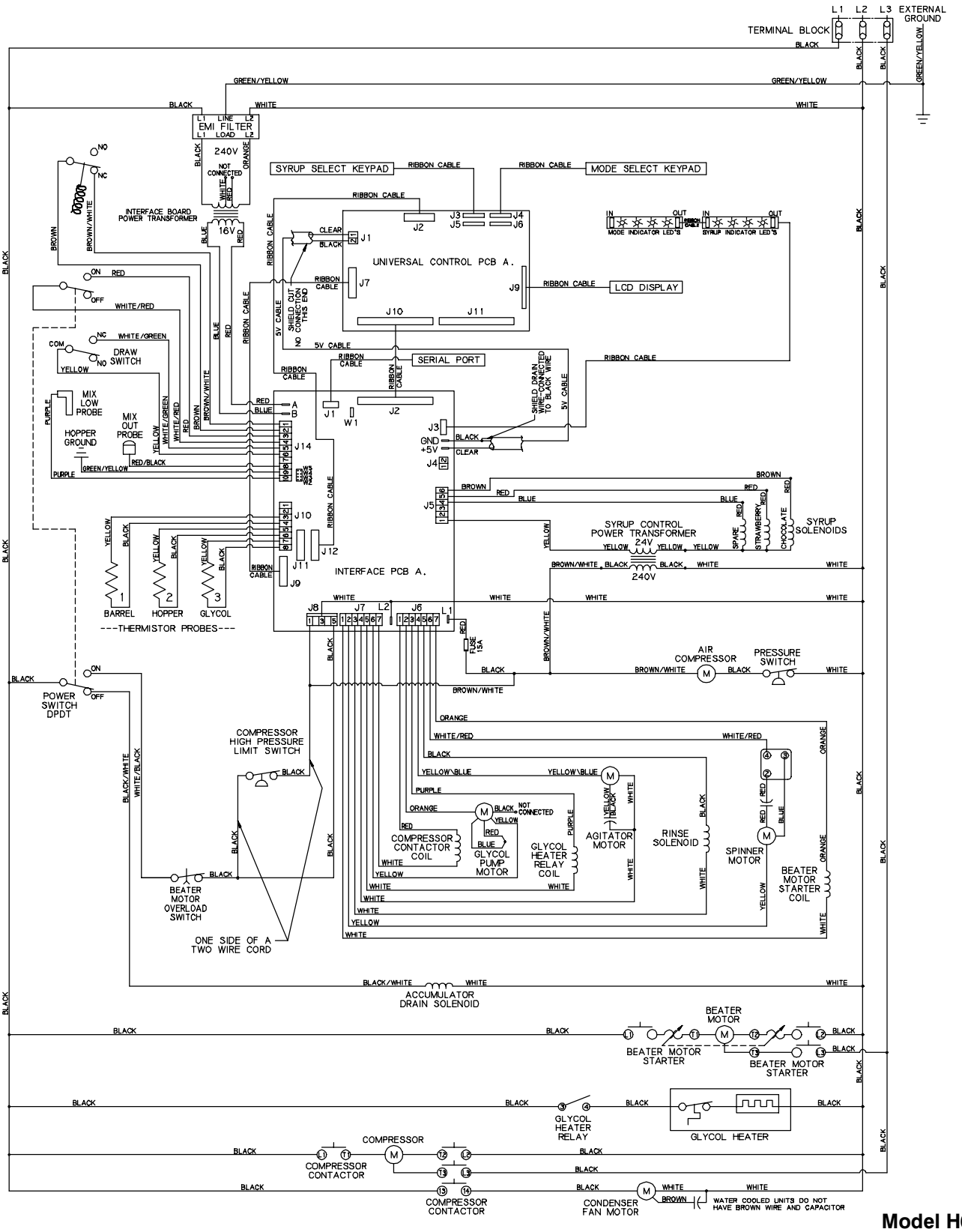
BEATER MOTOR WIRING FIG 2



Model H60
046638-27

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.



Model H60
046638-33

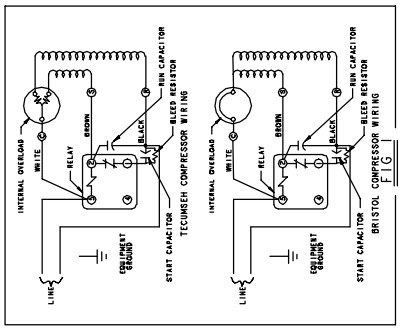


FIG 1

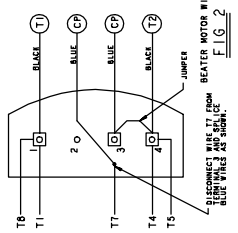
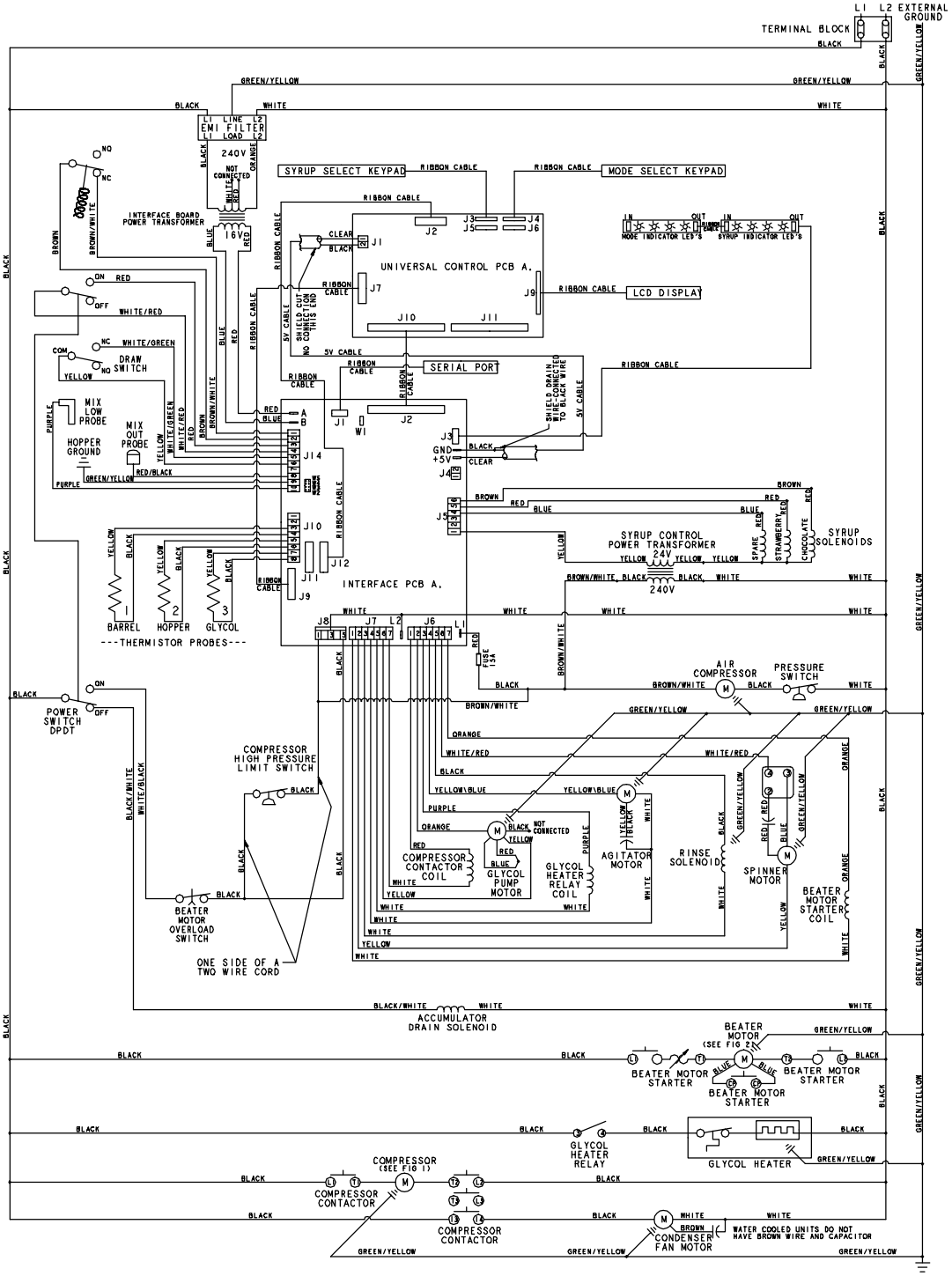


FIG 2

GROUND FRAME SECURELY

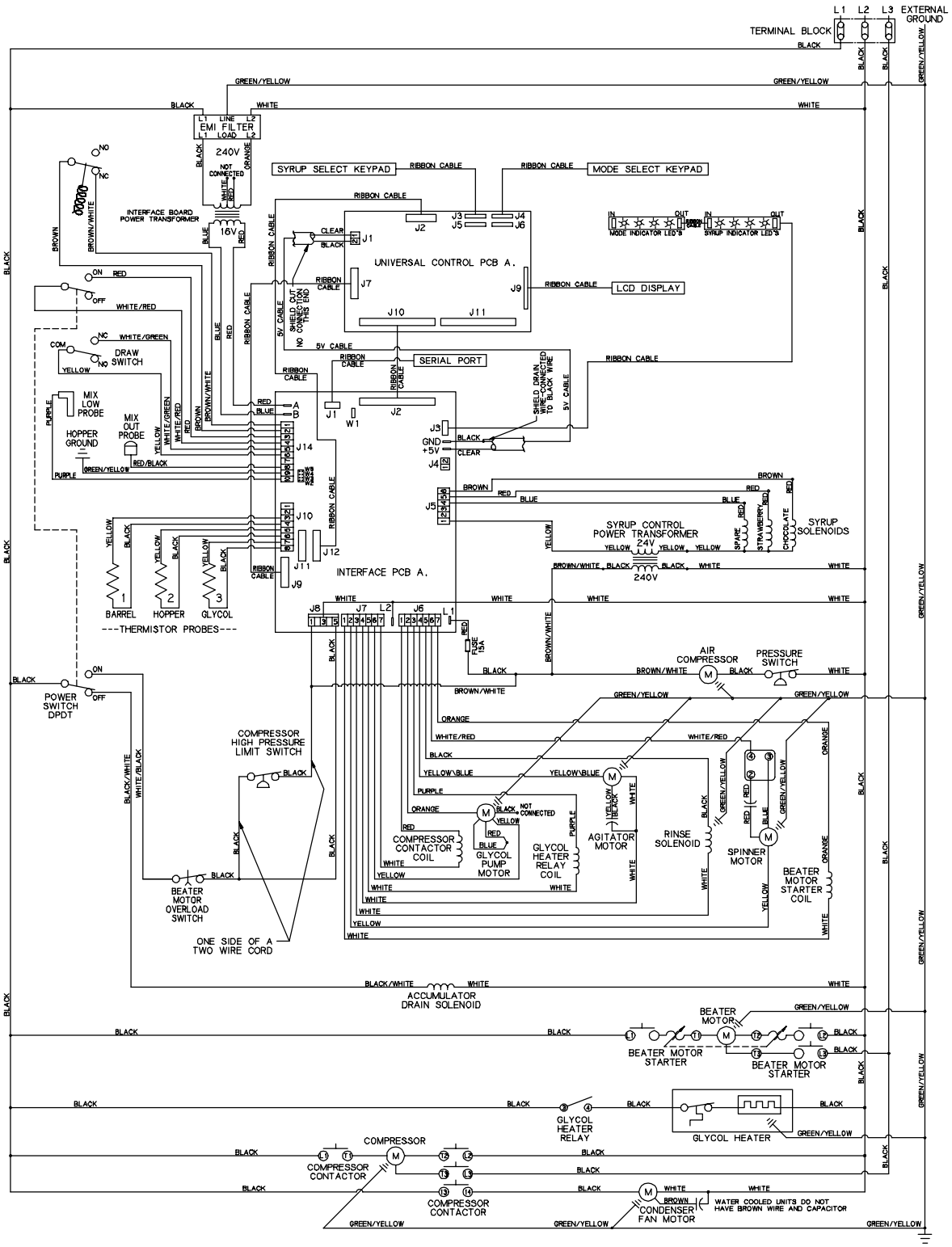
NOTE:
1. STATIC ELECTRICITY MAY CAUSE DAMAGE TO SOLID STATE COMPONENTS. ELIMINATE STATIC ELECTRICITY BY TOUCHING GROUNDED UNIT BEFORE HANDLING SOLID STATE COMPONENTS.
2. RED WIRE ON RIBBON CABLES MUST BE CONNECTED TO PIN 1 AT EACH END.



Model H60
046638-34

GROUND FRAME SECURELY

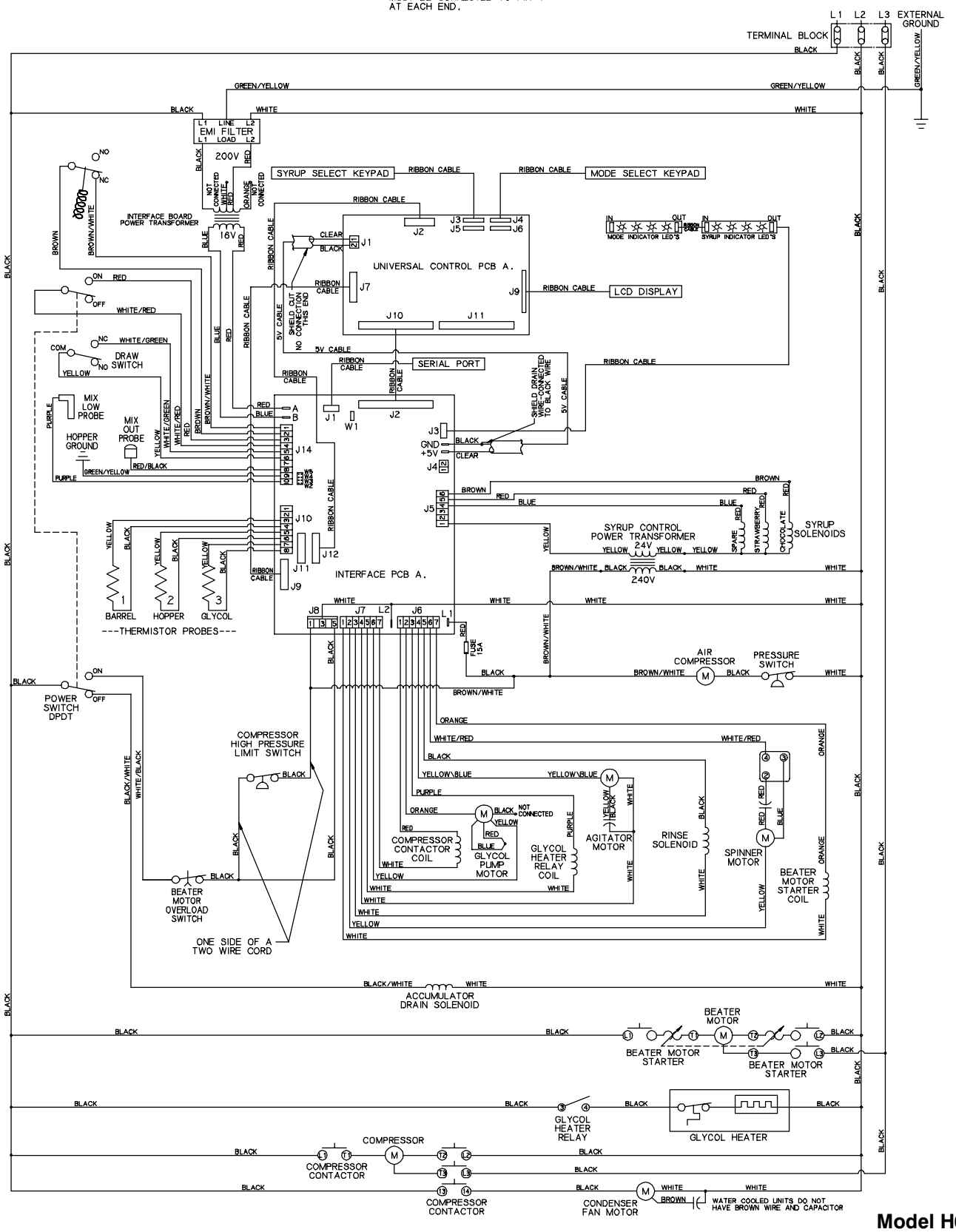
NOTE:
1. STATIC ELECTRICITY MAY CAUSE DAMAGE TO SOLID STATE COMPONENTS. ELIMINATE STATIC ELECTRICITY BY TOUCHING GROUNDED UNIT BEFORE HANDLING SOLID STATE COMPONENTS.
2. RED WIRE ON RIBBON CABLES MUST BE CONNECTED TO PIN 1 AT EACH END.



Model H60
046638-35

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.



Model H60
046638-39

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.
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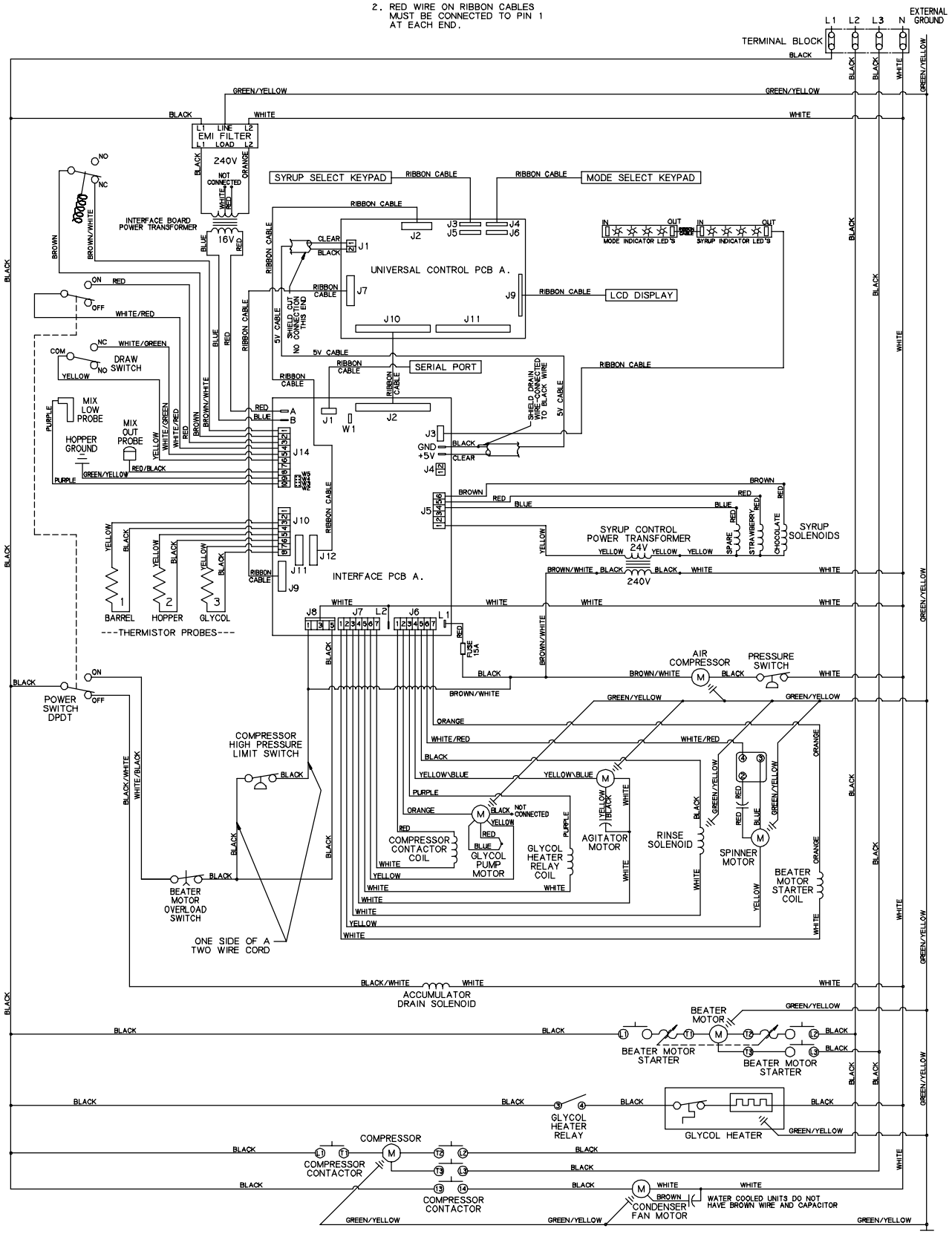

Model H60
046638-62

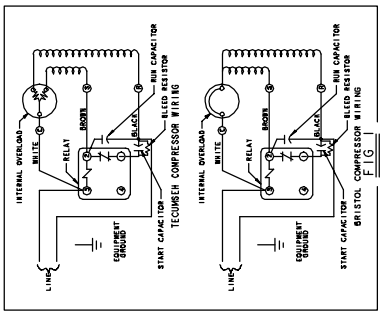

FIG 1

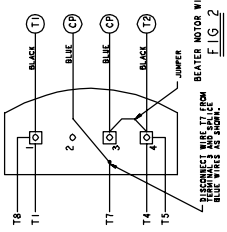

FIG 2

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.
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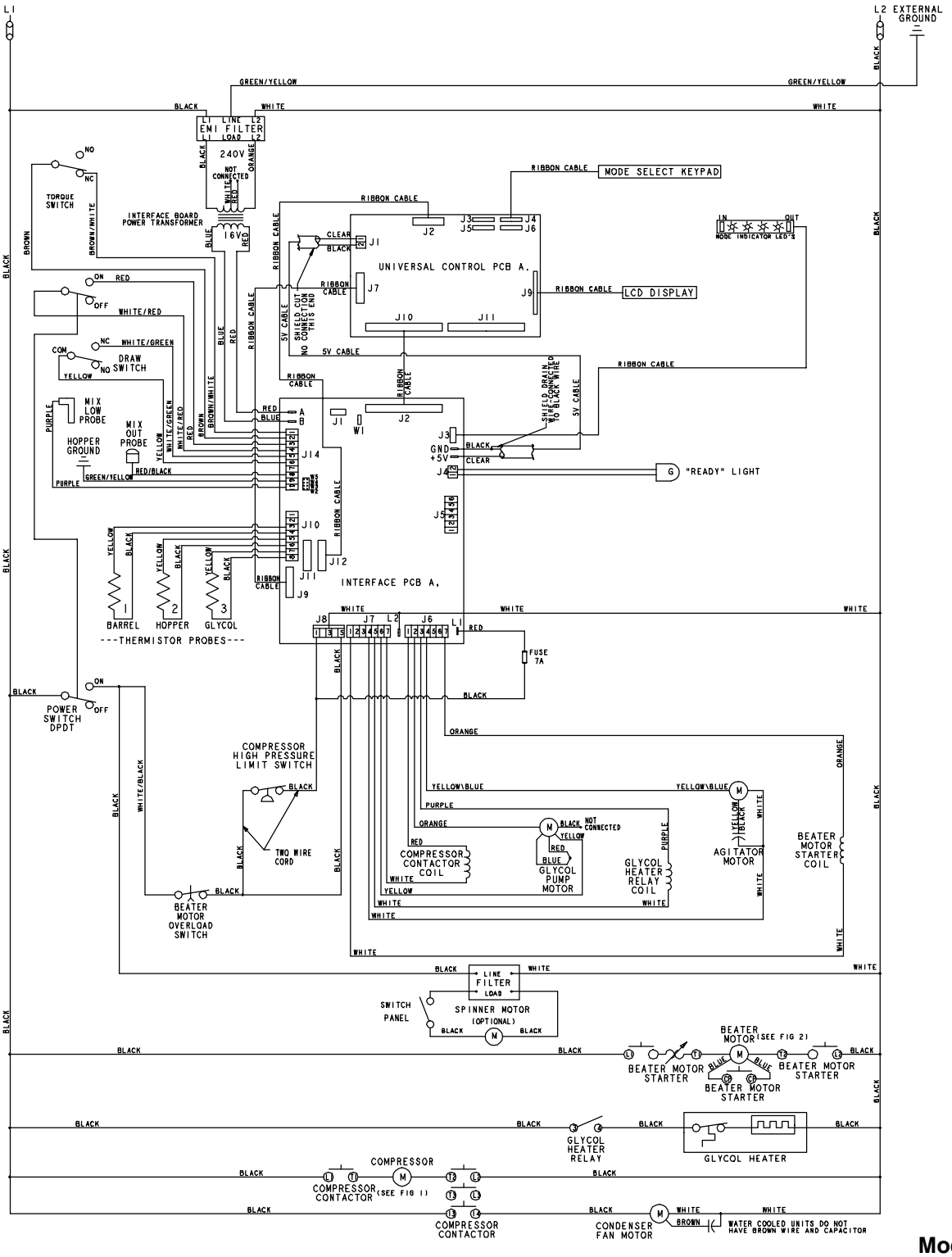
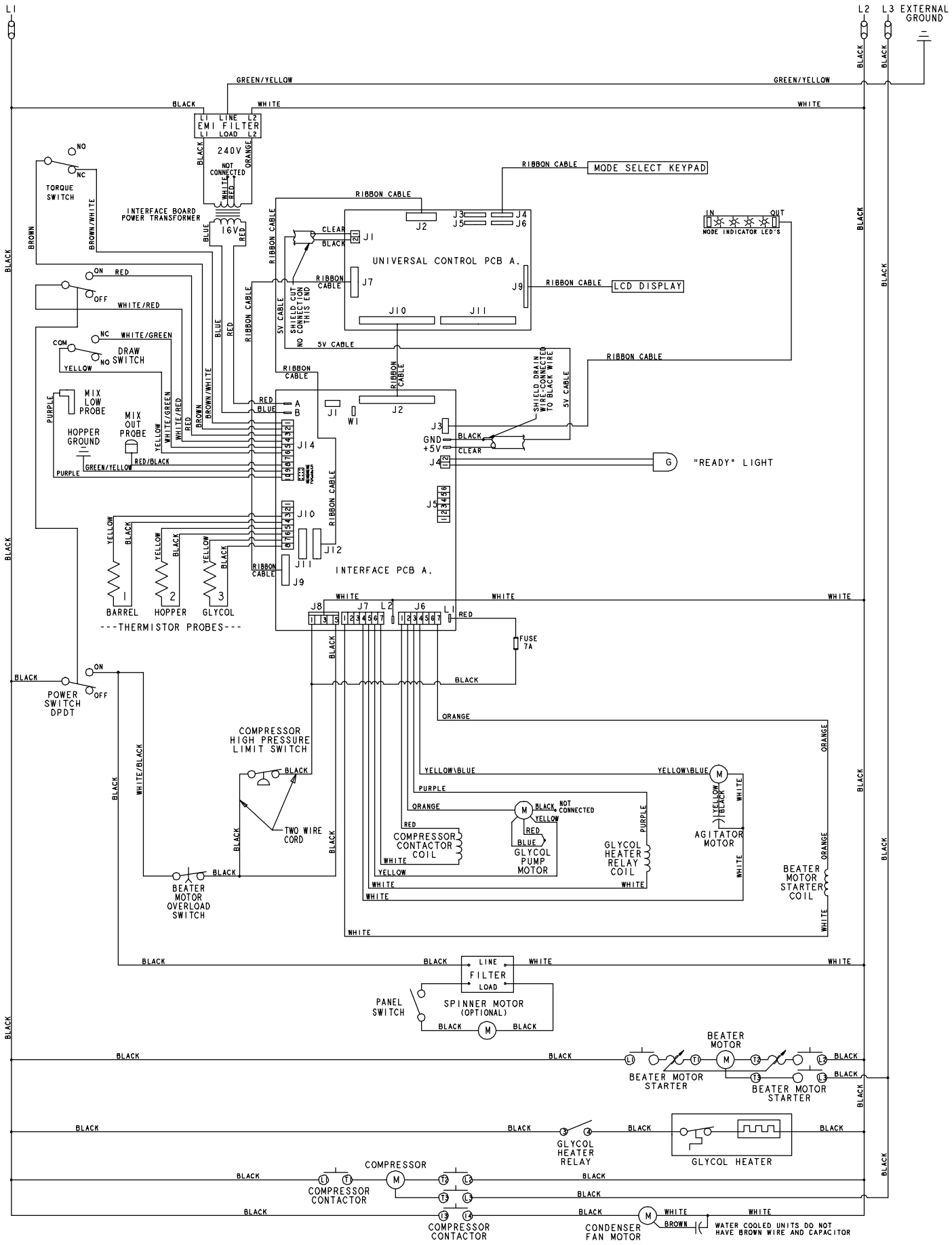


Model H63
048384-27



Model H63
048384-33

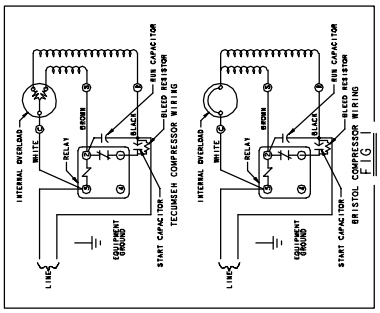


FIG 1

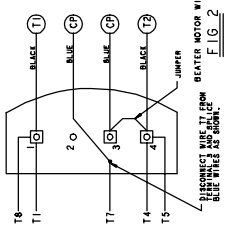
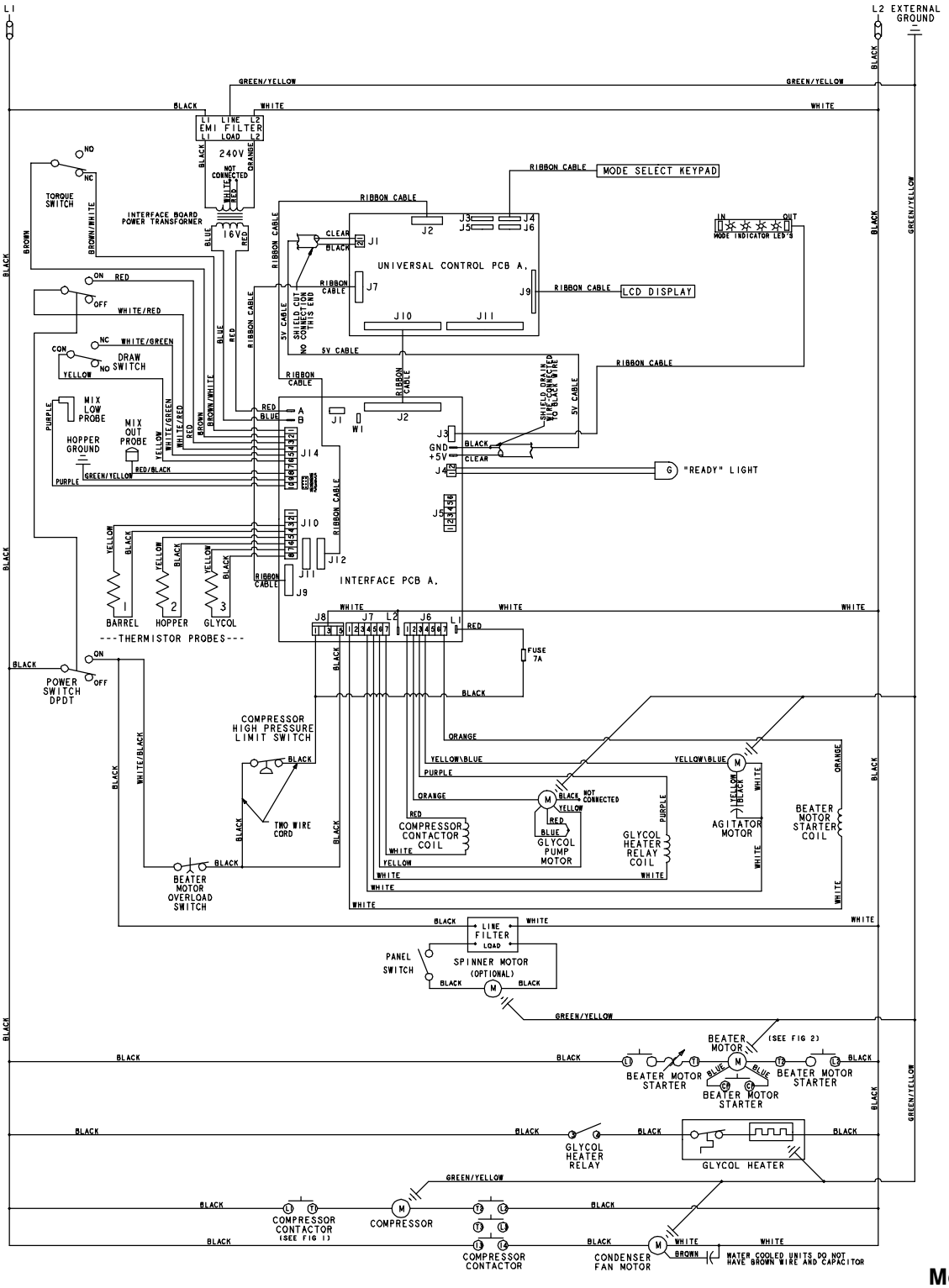


FIG 2

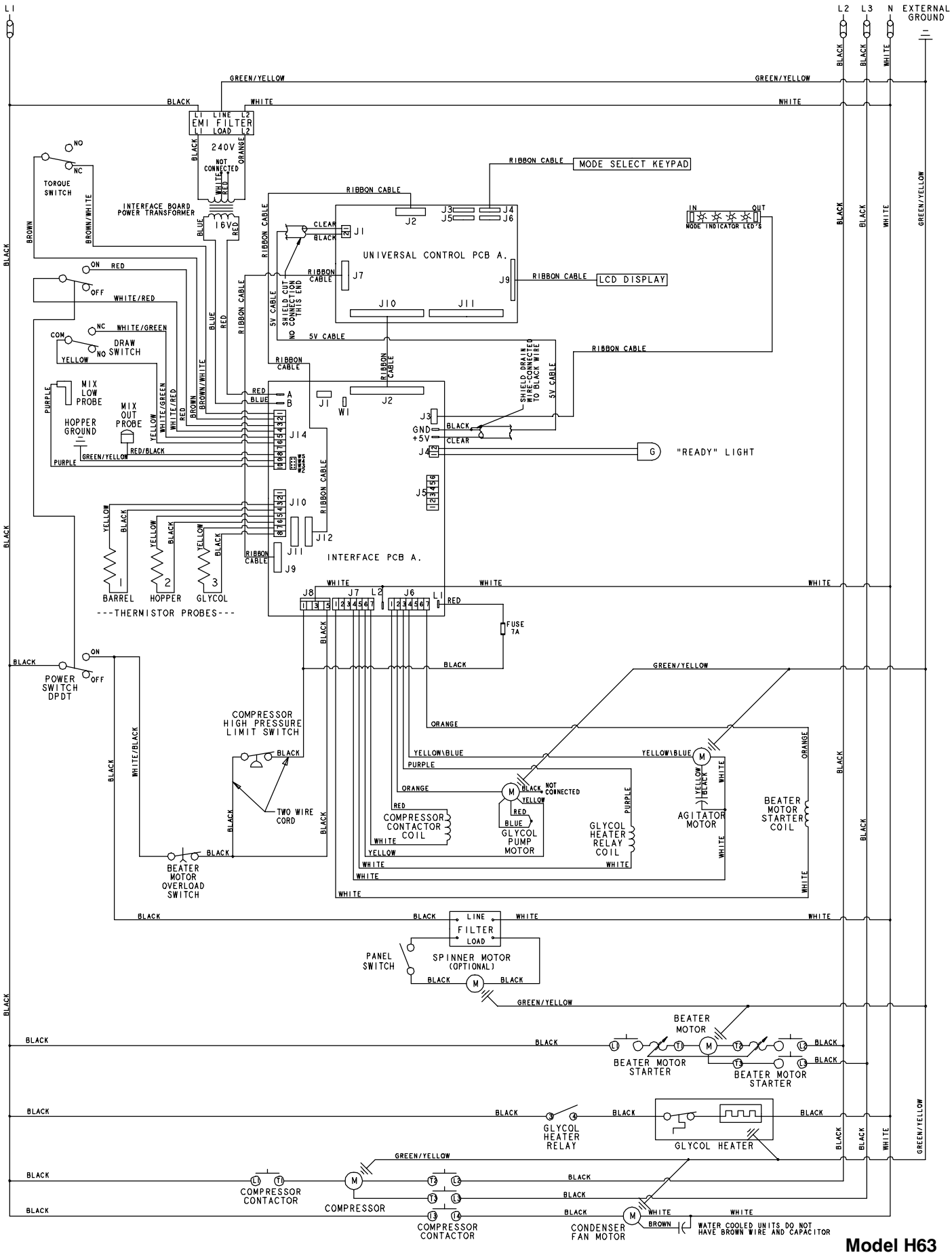
GROUND FRAME SECURELY

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.



Model H63
048384-40



Model H63
048384-58

FOODSERVICE EQUIPMENT SPARES LTD

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