

INSTALLATION GUIDE

BLOWER/DRYER FOR CREW 44 & CREW 66



REVISION HISTORY

Revision Letter	Revision Date	Made By	Applicable ECNs	Details
A	01-30-2014	MHH		Release to production.

Jackson®

Warewashing Systems

BLOWER/DRYER FOR CREW 44 & CREW 66

Model: _____

Serial No.: _____

Installation Date: _____

Service Rep. Name: _____

Phone Number: _____

Jackson WWS, INC provides technical support for all of the dishmachines detailed in this manual. We strongly recommend that you refer to this manual before making a call to our technical support staff. Please have this manual with you when you call so that our staff can refer you, if necessary, to the proper page. Technical support is not available on holidays. Contact technical support toll free at 1-888-800-5672. Please remember that technical support is available for service personnel only.

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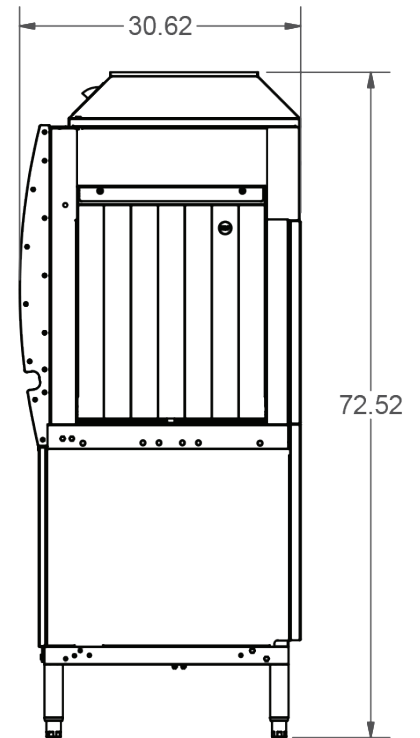
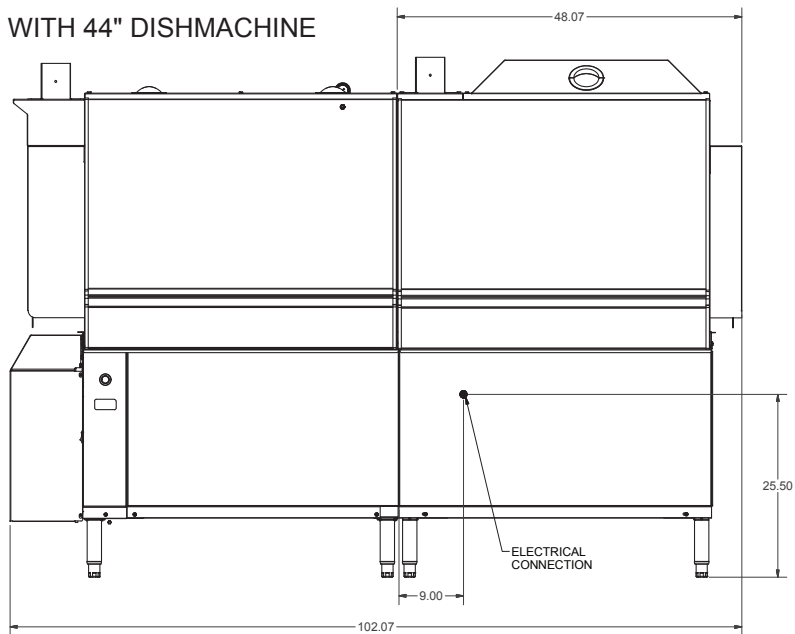
240V7

480V8

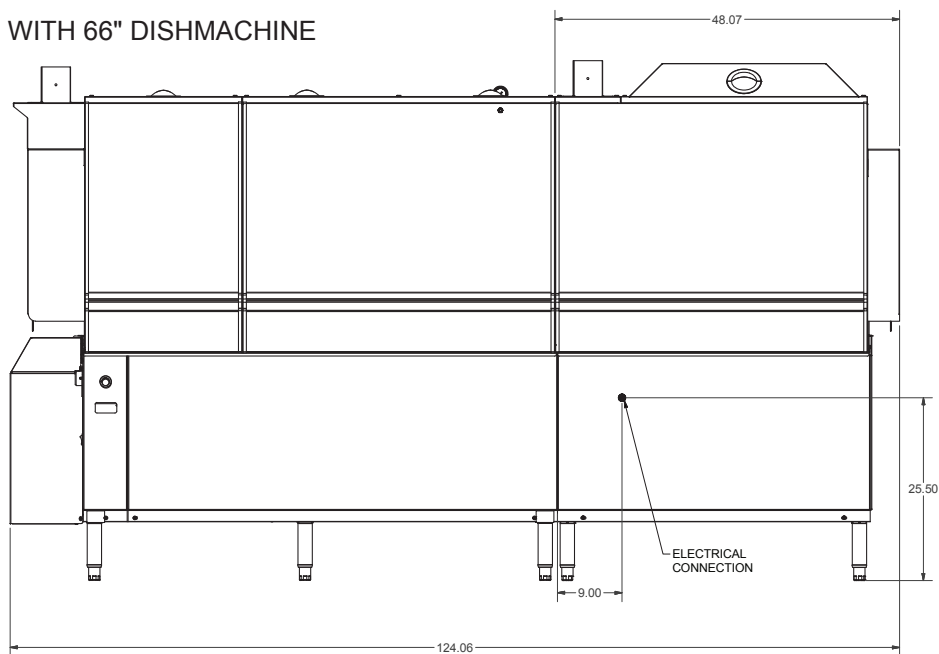
SPECIFICATIONS

MACHINE DIMENSIONS

WITH 44" DISHMACHINE



WITH 66" DISHMACHINE



SPECIFICATIONS

ELECTRICAL REQUIREMENTS & FEATURES

ELECTRICAL REQUIREMENTS:

VOLTS	PHASE	FREQ	AMPS
208	3	60	32.2
230	3	60	22.9
460	3	60	13.4

Machine Dimensions:

Height	72.5"
Width	48"
Depth	30.625"

Wall Clearance: 5"

Height	19.75"
Width	21"

Shipping Weight: 750lbs.

Shipping Size:

Length	77"
Depth	41"
Height	89"

FEATURES: This blower/dryer is an accessory device that is bolted to the CREW dishmachine to promote drying of china and silverware.

Construction: Chamber construction will be 16 gauge #304 stainless steel, heliarc welded and bolted to the dishmachine. An inspection door provides access to the drying section. Included in the hood will be a 4" x 16" (inside dimension) vent with a locking type control damper. Vent stack will be located at the entrance of the drying chamber for connecting to the dish room exhaust ducting.

Removable #304 stainless steel panels enclose the entire external component assembly consisting of heating devices, motor and blower.

The tank portion is constructed of 16 gauge #304 stainless steel, and the frame is constructed of 2" square stainless steel tubing. The legs are constructed of 2" diameter stainless steel tubing and the feet of NSF-approved stainless steel.

Conveyer mechanism will be a center-mounted, heavy-duty, stainless steel pawl bar with stainless steel cast, counter-weighted, wide surface pawls. The pawl bar will be driven by the conveyer drive motor.

A total of 9 kW electric heaters will be used. Thermostatic control and separate over temperature protection are standard. Electrical specifications are 208/60/3, 230/60/3 and 460/60/3.

Blower: Industrial fan type with a squirrel cage wheel. Optimal motor cooling and a compact construction achieved through integrating the voltage controllable external rotor motor into the impeller.

Motor: 208/230v Blower has a 2.1kW or 2.8HP motor. 460v Blower has a 1.65kW or 2.2 HP motor.

INSTALLATION

INSTRUCTIONS

VISUAL INSPECTION: Before installing the unit, check the container and the machine for damage. A damaged container may be an indication there is possible damage to the product. If there is any type of damage to both the container and the unit, DO NOT THROW AWAY THE CONTAINER. The machine has been previously inspected at the factory and is expected to arrive to you in new, undamaged condition. However, rough handling by carriers or others may result in damage to the unit while it is in transit. If such a situation occurs, DO NOT RETURN THE UNIT TO THE MANUFACTURER. Instead, contact the carrier and ask them to send a representative to the site to inspect the damage. You should request that an inspection report be completed. You must contact the carrier within 48 hours of receiving the machine in order to report possible freight damage. You are also encouraged to contact the dealer through which you purchased the unit.

UNPACKING THE MACHINE: The machine should be unboxed and removed from the pallet prior to installing. Remove the wooden lift beams and their associated brackets after the unit has been positioned. Open the front door and remove all of the materials from the inside. Once unpacked, verify there are no missing parts. If you discover a part is missing, contact the manufacturer immediately.

LEVEL THE UNIT: The blower/dryer is designed to operate while level, and must match the height of the existing dishmachine. This is important to prevent any damage to the machine during operation and to ensure the best results possible. Align the blower/dryer next to the existing dishmachine. While adjusting the blower/dryer's bullet feet with a pair of pliers, view the hood tops of both machines to ensure that they are the same height. Verify the unit is level from front to back and side to side prior to making any electrical or plumbing connections.

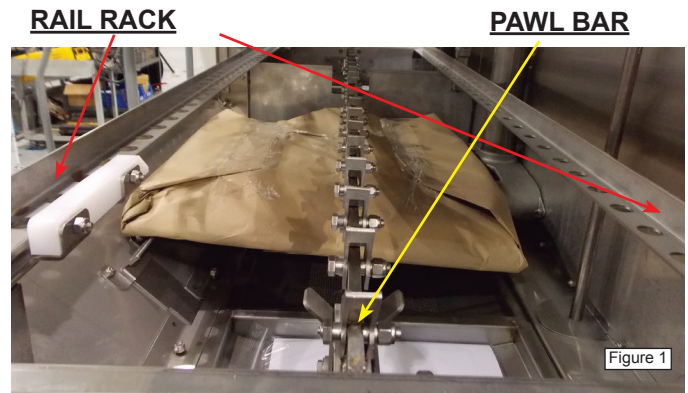
CONNECT BLOWER/DRYER TO EXISTING DISHMACHINE: Follow the steps below to connect the blower/dryer to the dishmachine.

**CAUTION: DISCONNECT ELECTRICAL POWER SUPPLIES TO
THE DISHMACHINE BEFORE BEGINNING THIS PROCESS.
LOCK OUT/TAG OUT IN ACCORDANCE WITH APPROPRIATE PROCEDURES AND CODES.**

1. Remove the dress panels from the bottom front of both units and set aside. Remove the panels from the top of both units and set aside. Open the doors on both units.

2. Remove the rack rails from inside of dishmachine, by loosening both 1/4-20 locknuts on both ends of rails. Then lift rack rails to remove. (see figure 1 & 2)

3. Now remove the pawl bar. Lift up on bar to remove.
(as shown in figure 1)



1/4-20 LOCK NUT



INSTALLATION

INSTRUCTIONS

4. Remove rinse arm by removing screw securing rinse arm bracket to bracket attached to hood. Once screw is removed pull rinse arm forward to remove. (see figure 3)
5. Remove the three, 1/4-20 locknuts securing the curtain hanger bracket to the hood. Set aside for use in reassembly.
6. On the inside of the dishmachine remove the four screws securing the ventilation cowl to the machine. (see figure 4)
7. Remove the three screws connecting the ventilation cowl assembly to the hood top. (see figure 5)

RINSE ARM

Pull out here to remove

RINSE ARM SCREW

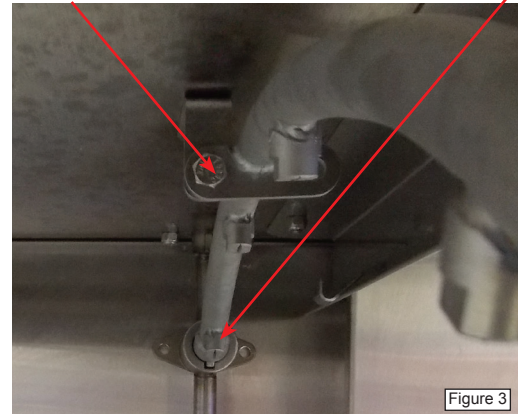


Figure 3

VENTILATION COWL SCREWS



Figure 4

REMOVE SCREWS

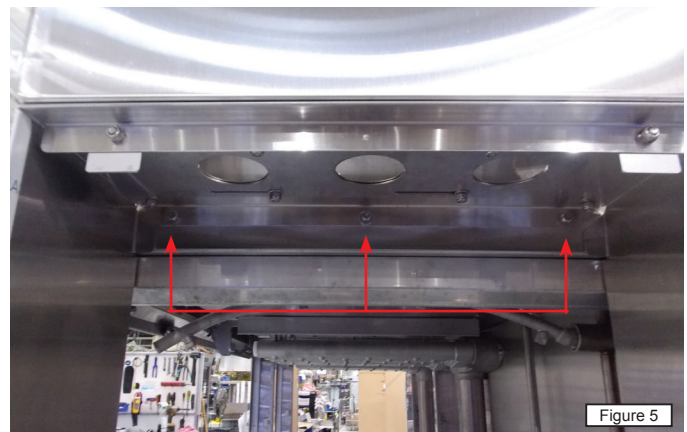


Figure 5

8. Use nut driver to hold the two locknuts on the inside of the dishmachine (see figure 6), while removing the screws from the inside of the ventilation cowl. (shown in figure 7)

REMOVE LOCK NUTS

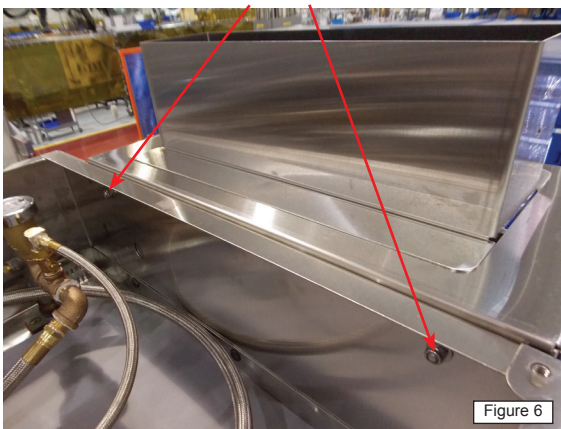


Figure 6

Ventilation shroud upper flange bolts will be located in this section

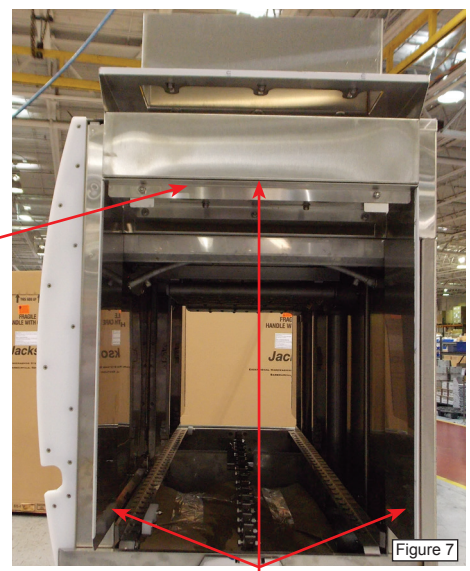


Figure 7

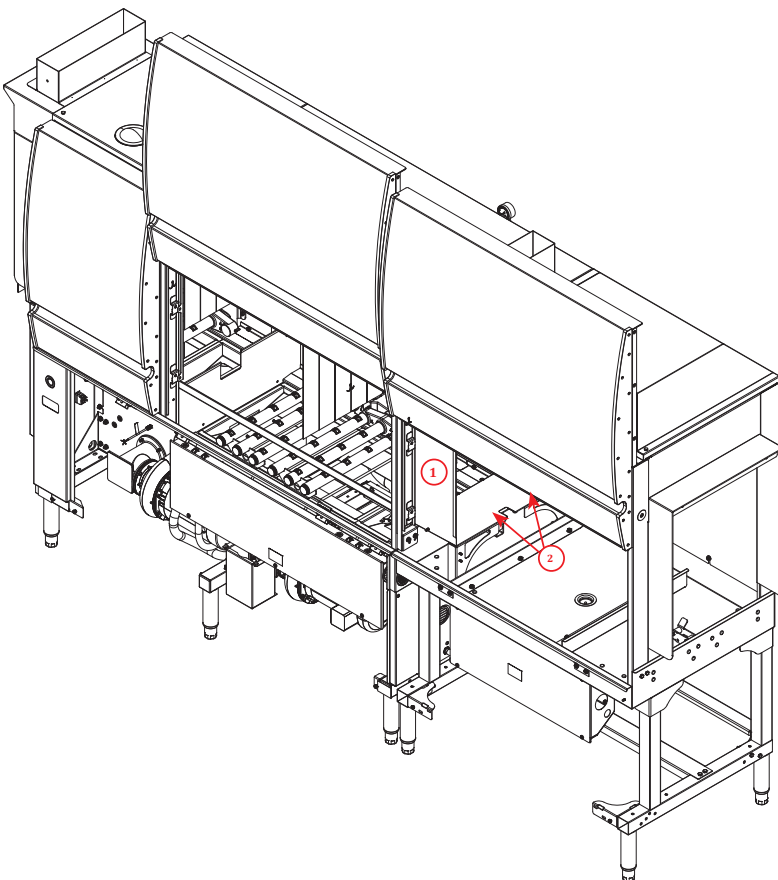
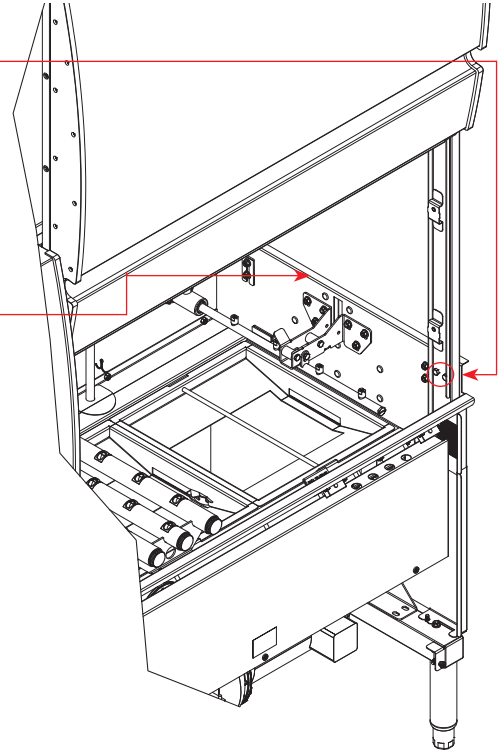
VENTILATION SHROUD

INSTALLATION INSTRUCTIONS

9. Remove the bolts on the front leg of hood on exit end of dishmachine.
11. Align holes on the entrance side of blower/dryer with the studs on the exit end of the dishmachine and push the two units together.

WHEN PUSHING UNITS TOGETHER, SLIGHTLY LIFT UP ON FRONT HOOD SUPPORT TO ENSURE THE BLOWER/DRYER RESTS ON THE FLANGE OF THE DISHMACHINE TUB'S EXIT END.

12. Once the units are securely joined, replace the bolts on the front support hood of the dishmachine and secure with nuts. Secure the units further by tightening nuts on the dishmachine studs that were pushed through the blower/dryer.



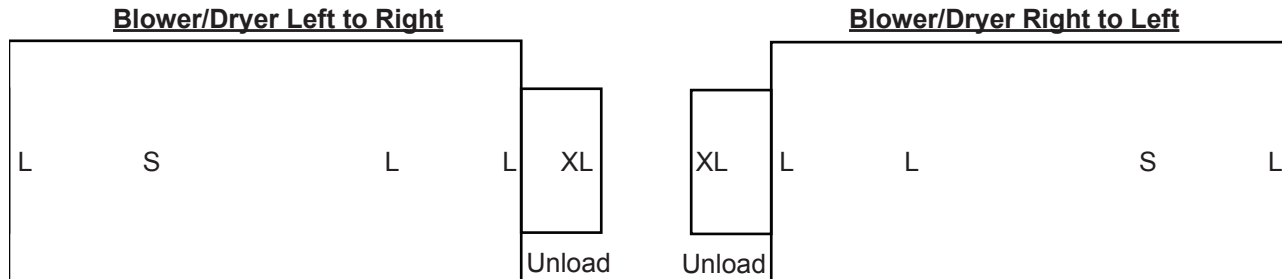
PREPARE INSIDE OF BLOWER/DRYER: Install inner shroud weldment, pawl bar and rack rails into the blower/dryer.

1. Install inner shroud weldment (**1: see below**) through the dishmachine exit end into the blower/dryer.
2. Slide the slots on the triangle pieces (**2**) onto the studs on the tub and the bottom of the shroud and secure with nuts and washers. The long end should be up and the flange should point towards the blower/dryer entrance. Secure the top flanges of the shroud to the hood with 1/4-20 locknuts.
3. Mount the rack rails by positioning slots onto the studs on the side and front of the triangle pieces and secure with nuts and washers. Secure the other end of the rack rails to the studs on the inner tub on the exit end of the blower/dryer.
4. Reattach the rack rails in the dishmachine.
5. Place pawl bar back in dishmachine.

INSTALLATION

INSTRUCTIONS

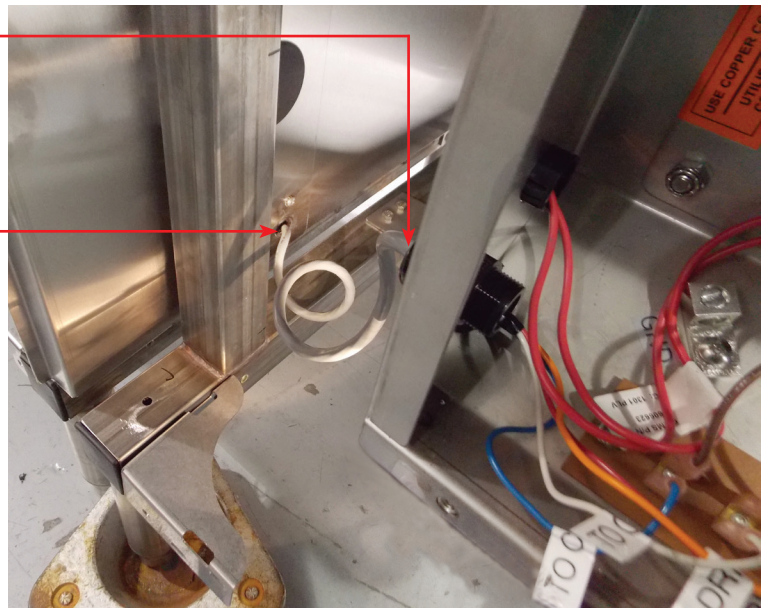
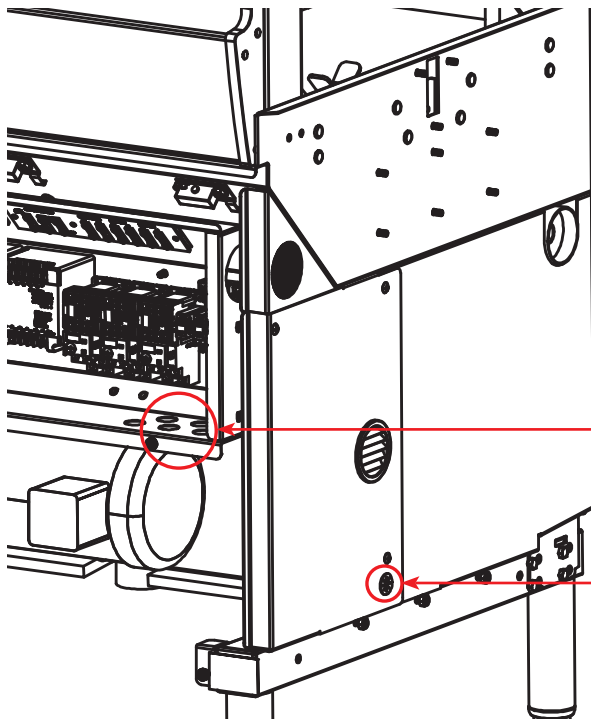
- Place pawl bar in the blower/dryer and slide the hooked end under the inner shroud until it meets the dishmachine's pawl bar. Connect the two hooked ends of the pawl bars.
- Reinstall rise arm and curtain bracket.
- Install curtains in order of the stickers on the door of the blower/dryer. (See diagram below.)



CONNECT BLOWER/DRYER WIRING TO DISHMACHINE:

CAUTION: BE CERTAIN THAT ALL ELECTRICAL POWER SUPPLIES TO THE DISHMACHINE ARE DISCONNECTED BEFORE BEGINNING THIS PROCESS.

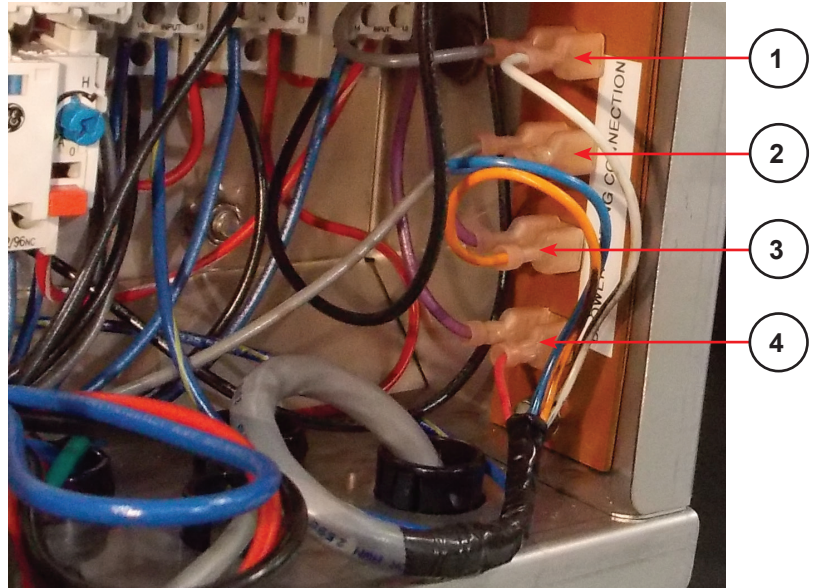
- Locate the gray SJ cord at the left side of the blower/dryer control box.
- Push SJ cord up through the empty hole at the bottom of the dishmachine's control box.
- Push SJ cord through the hole on the side and near the bottom of the dishmachine panel that faces the blower/dryer control box.



INSTALLATION

INSTRUCTIONS

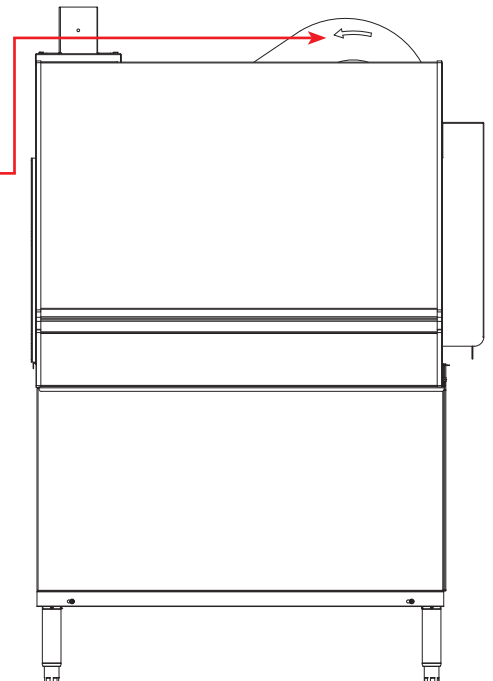
4. Connect the white wire from the SJ cord to the first terminal on the terminal board on the right side of the control box.
(The white wire connects to C1-13.)
(Refer to photo of terminal board.)
5. Connect the blue wire from the SJ cord to the second terminal on the terminal board.
(The blue wire connects to C1-14.)
6. Connect the orange and red wires to the third and fourth terminals on the terminal board
(either color can go on either terminal).
(These wires connect to Drive C/O.)
7. Reinstall control box covers and front dress panels on both units.
8. Install existing table at the end of the blower/dryer.

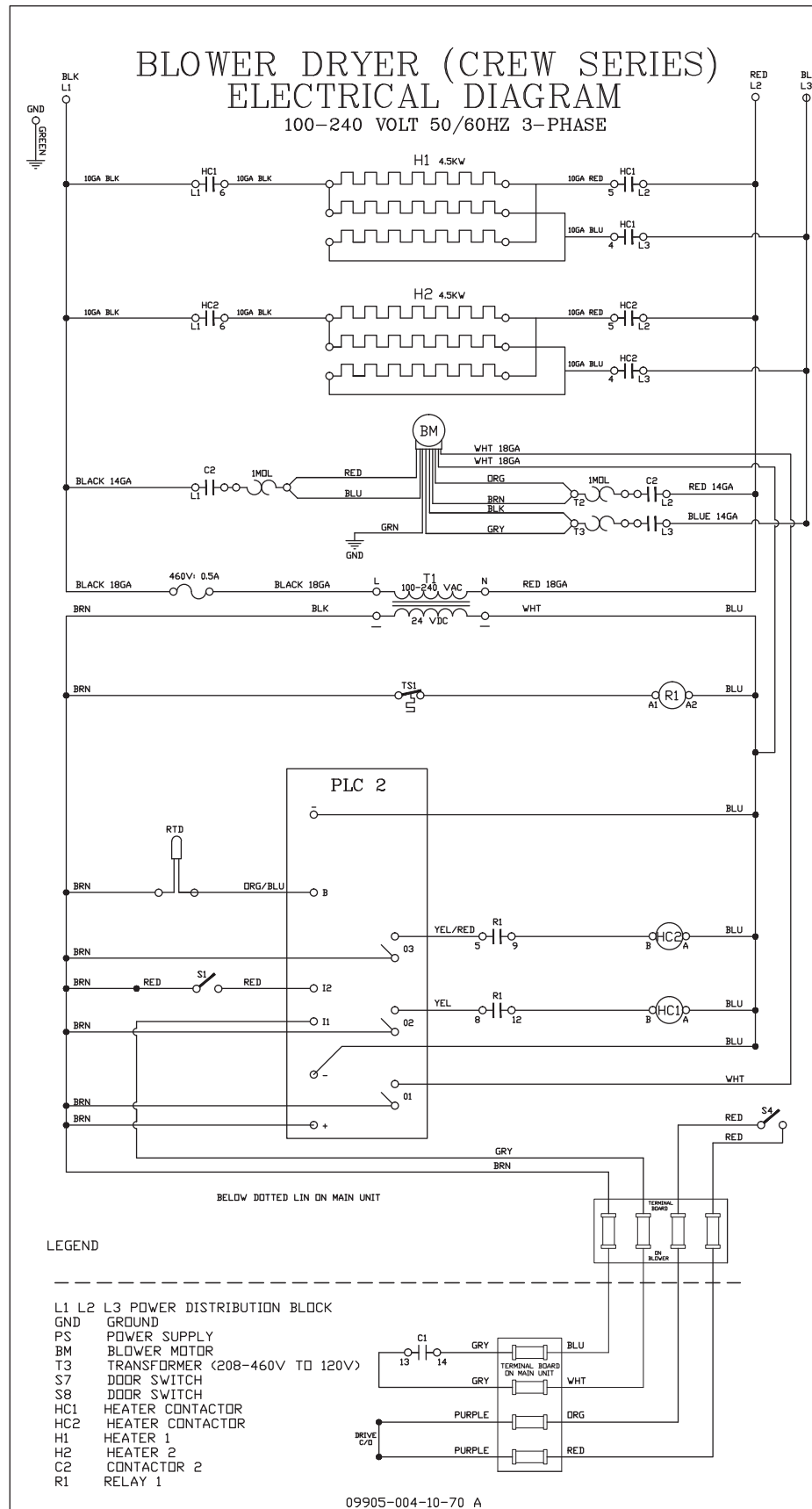


CONFIRM PROPER FUNCTION OF BLOWER/DRYER AND DISHMACHINE: Reconnect all power supplies to the dishmachine and the blower/dryer. Run a cycle without dishware to confirm proper function of the two units together and proper function of the blower portion of the blower/dryer.

To ensure proper drying, it is important to verify that the blower fan is rotating correctly. To do this, look at the blower through the top of the blower/dryer unit. Locate the arrow at the top of the blower and confirm that the fan is rotating in this direction. If it is rotating in the opposite direction, change two of the phases on the main terminal block in the blower/dryer control box.

Once the blower fan rotation is confirmed to be correct, reinstall all panels on the top of the blower/dryer and dishmachine.





SCHEMATICS

ELECTRICAL SCHEMATICS, 480V

