SERVICE MANUAL

WasteXpress®

Food Waste Reduction Systems

Part No. F377-26E-95-10

© 2026

TABLE OF CONTENTS

NOTES

GENERAL INFORMATION

IMPORTANT SAFETY INFORMATION

This symbol indicates potential personal injury hazards. Obey all safety messages accompanying this symbol to avoid possible injury or death.

⚠ WARNING **WARNING** indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION **CAUTION** indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE **NOTICE** is used to address practices not related to physical injury.

WasteXpress® System

The InSinkErator WasteXpress is a Foodservice kitchen waste reduction system that utilizes a standard Foodservice disposer in line with the WasteXpress dewatering system. The kitchen waste is ground through the disposer then transferred to the WasteXpress where it is compressed. After the waste is compressed, the liquids are sent down the drain line and the solid waste exiting the WasteXpress is 85% less in volume.

Note: *This manual services the following models:*

WX-8 (14492B) WasteXpress
WX-9 (14492C) WasteXpress
WX-10 (14492D) WasteXpress
WX-11 (14492E) WasteXpress
WX101A-5 (15258) Control Center
WX101A-6 (15258A) Control Center
WX101A-7 (15258B) Control Center

Contact InSinkErator for service information on any other model WasteXpress or Control Center.

See separate service instructions for disposer - Ref. F376-24E-76-02.

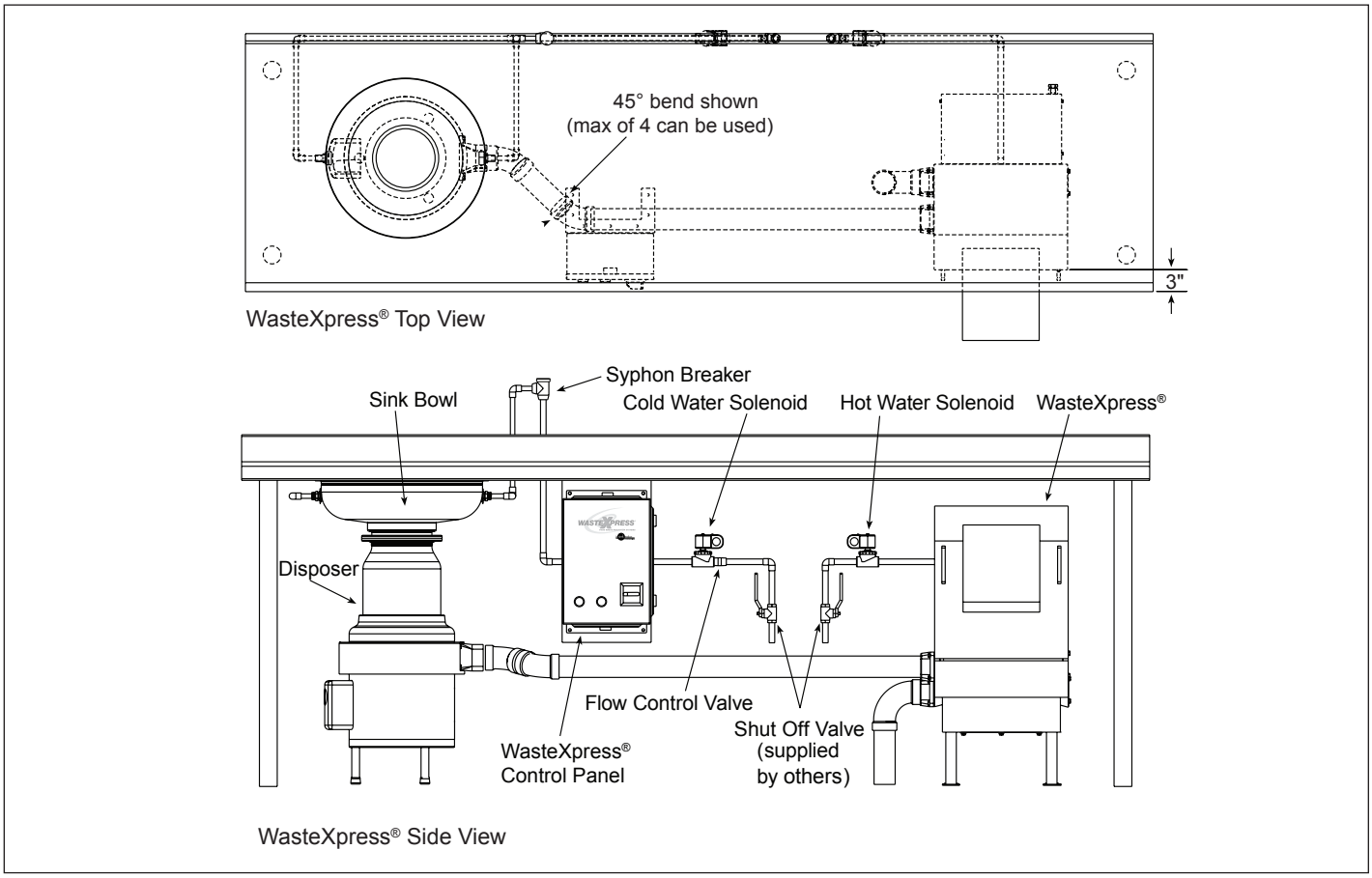


Figure 1. Typical WasteXpress® Installation

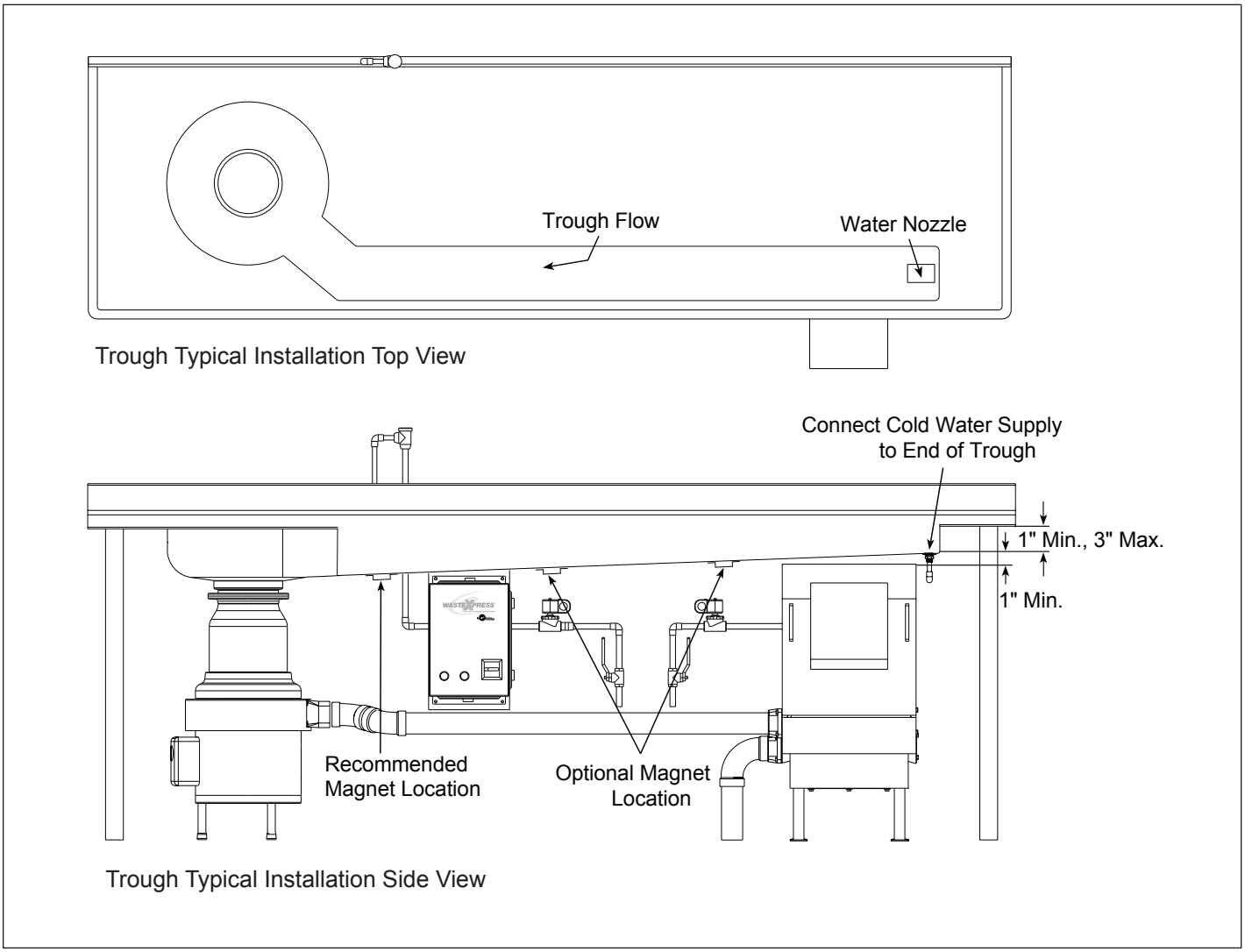


Figure 2. Typical WasteXpress® Trough Installation

Product Features

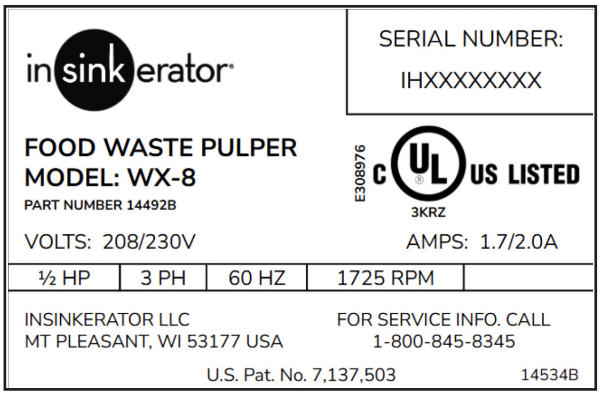
- Up to 85% volume reduction
- Capacity 700 pounds of waste per hour
- Fits under standard table - minimum height 34"
- Does not require cardboard
- Stainless steel construction
- Quick and easy to clean - no tools required
- One year full warranty
- Processes 100% food waste or up to 50% disposables
- NEMA 4 stainless steel electrical control panel
- Removable auger and screen
- Interlock on discharge chute
- Water usage 2-5 gallons per minute (gpm) - sink or bowl configuration
- Trough application - contact factory

Specification Plates

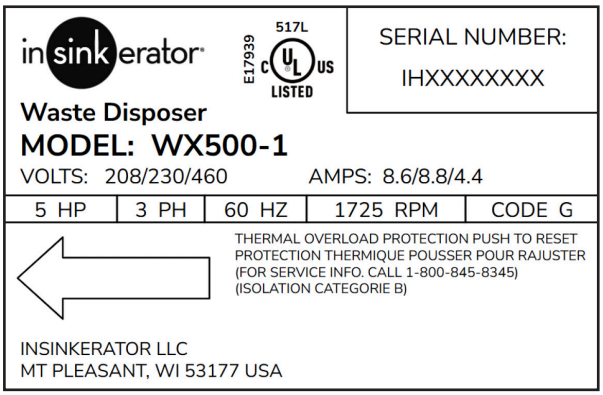
Each of the three major components of the WasteXpress system incorporates their own unique specification decal which indicates the following product information:

- Complete model number
- Serial number (includes manufactured date)
- Amperage
- Voltage
- Phase
- Horsepower rating

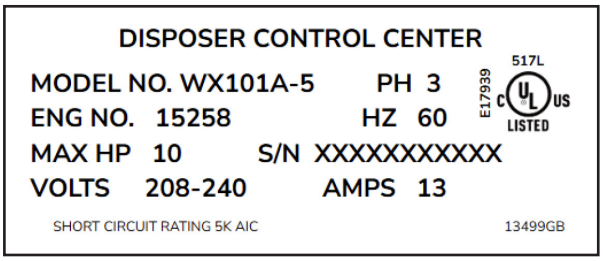
NOTE: *The correct part sheet (as designated by the complete model number) must be referenced to order replacement parts.*



WasteXpress® Dewatering Unit
Location - Left Side, Lower Right-Hand Corner



Disposer
Location - Right Side of Terminal Box

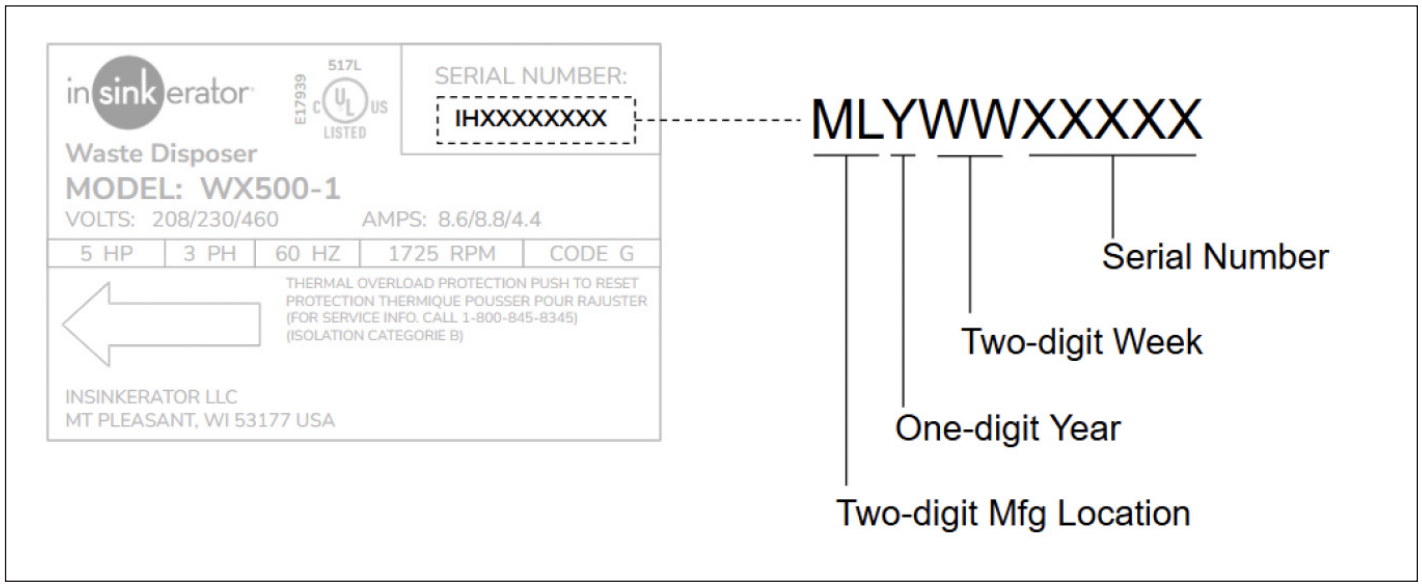


WX101A Control Center
Location - Right Side of Control Enclosure (Latch Side)

Figure 3. Specification Plates

Serial Number Date Code

The date of manufacture is embedded into the units serial number code.



Safety Interlock

The WasteXpress is equipped with safety interlock on the discharge chute. This interlock prevents the system (disposer and WasteXpress) from operating unless the discharge chute is properly seated.

NOTICE **Do not process plastic wrap, cans, silverware, rubber, glass or crockery or damage to the unit could occur.**

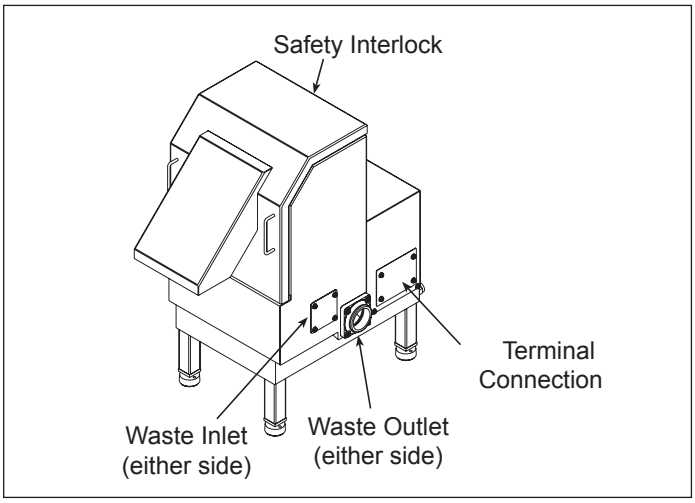


Figure 4. Safety Interlock

Prior To Service Call

- Obtain model numbers, serial numbers and voltage/phase from the customer to prepare for the service call.
- Confirm date of system installation and/or initial startup.
- Obtain the service history of the system if any exists.

Defining Problems

Before troubleshooting for mechanical problems, verify the following:

- Ensure discharge chute on WasteXpress is fitting securely in position.
- Ensure disposer overload protector has been reset and check for foreign objects that may be jammed in grind chamber.
- Ensure the WasteXpress, disposer and control center electrical specifications match the incoming power supply.
- Make sure the disposer motor and WasteXpress auger drive motor lead connections are correct for the corresponding power supply and control center.
- Determine if there are electrical problems with other kitchen appliances. This may indicate a problem with the building's electrical circuitry.

After Completing Service

Test the system as follows:

- Stop and restart the system to ensure auger is rotating in clockwise rotation at all times during operation.
- Ensure system shuts down when discharge chute is removed.
- Ensure hot water spray in cabinet activates and deactivates during operation.
- Check all plumbing connections to ensure system is "leak free".

Limited Warranty

The InSinkErator WasteXpress system is warranted against defects in material and workmanship for one year from the date of installation. The warranty includes parts and labor, provided an InSinkErator Factory Authorized Service Center performs the service. This warranty does not apply if the failure is due to: faulty or improper electrical installation, faulty or improper plumbing installation, product abuse or misuse, accidental damage, clogged drain lines or improper water flow.

Parts Limited Warranty

Replacement parts installed on OUT OF WARRANTY WasteXpress systems are covered (parts and labor) for 90 days from the date the parts are installed, provided the service is performed by an InSinkErator Factory Authorized Service Center. To receive credit, the Service Agency must provide a copy of the service invoice given to the customer as a receipt for the replacement part.

SPECIFICATIONS

Electrical

NOTE: *Electrical specifications of the disposer, control and WasteXpress listed on the corresponding unit specification labels must match the supply voltage from service.*

208 volts, 3 phase	
Disposer 8.6 amps	WX 1.7 amps
460 volts, 3 phase	
Disposer 4.4 amps	WX 1.0 amp

⚠ WARNING **ELECTRIC SHOCK! The WasteXpress system (disposer, control and WasteXpress unit) must be permanently grounded.**

Plumbing

Waste Connection

- 2" NPT used between disposer, WasteXpress and drain and can be mounted on either side of the cabinet.
- Waste outlet on WasteXpress unit should be routed directly to a floor drain (recommended method), or to a connection to the main sewer line, bypassing any grease trap(s) or grease interceptors.
- When connecting drain line from the disposer to the WasteXpress, use a maximum of four (4) 90° bends (45° bends are recommended) with a ¼" drop per foot or run, or as local codes apply.

Fresh Water Connections

- ½" NPT used on syphon breaker, solenoid and flow control valve.
- ½" NOM compression used on hot water connection to WasteXpress.
- If fresh water supply is greater than 50 psi, a pressure regulating valve must be installed on both.
- Ball type shut off valves are recommended for the hot and cold water lines.
- It is recommended that the hot water connection between solenoid valve and WasteXpress be terminated with a union for ease of serviceability.

Dimensions

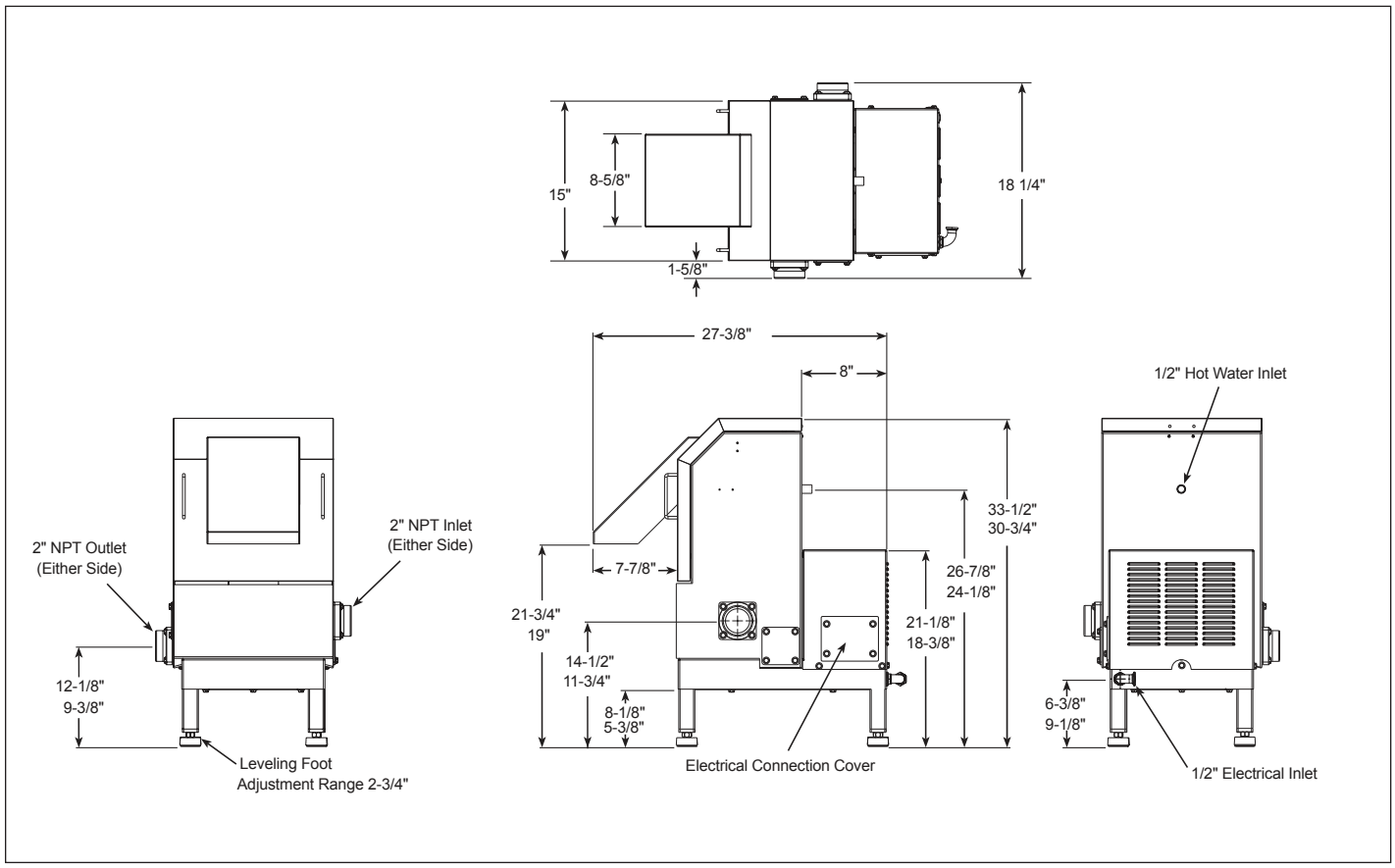


Figure 5. Dimensions

AUGER AND AUGER SCREEN

Auger and Auger Screen Removal

1. Turn off electrical supply and water supply to WasteXpress.
2. Holding both handles, remove discharge chute by tilting forward and lifting upward simultaneously (Figure 6).
3. Release retention clips on auger bearing bracket by pushing inward and remove bracket (Figure 7).
4. Simultaneously lift and tilt auger screen/auger assembly and remove from cabinet.
5. Remove auger from screen (Figure 8).
6. Clean auger thoroughly.
7. Inspect auger and screen as follows:
    - Check “drive” end of auger for unusual wear or damage to auger and drive pin.
    - Check “paddle” end of auger shaft for unusual wear or scoring of shaft/bearing contact area from bearing in auger bearing bracket.
    - Check that auger paddle is firmly retained with hardware and not loose.
    - Check auger screen for any evidence of paddle making contact with discharge pan (paddle may be loose on auger).

Auger Brush Replacement

8. Remove Auger and Screen as described above.
9. Remove two screws and clips (one each end) securing brush to auger. From either end of auger, slide brush free.
10. Inspect and clean brush channel.
11. From either end of auger, slide in new brush and secure with two screws and clips (one on each end).
12. Install auger and screen as described in “Auger and Screen Installation” on page 9.

Figure 6. Discharge Chute

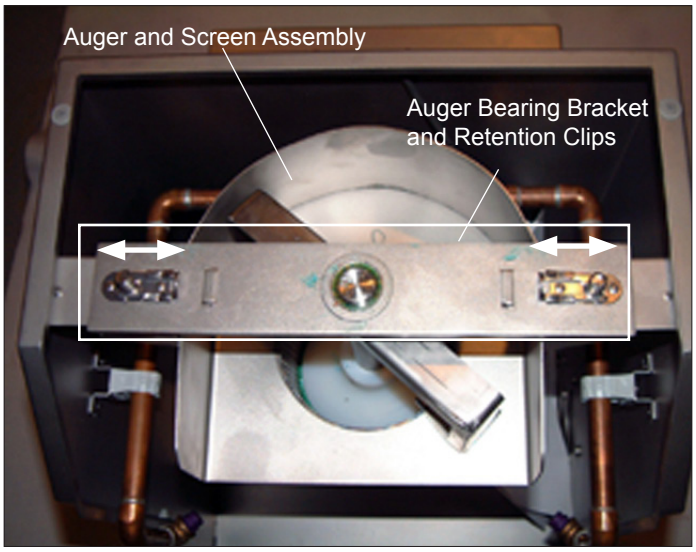


Figure 7. Auger Bearing Bracket and Fasteners

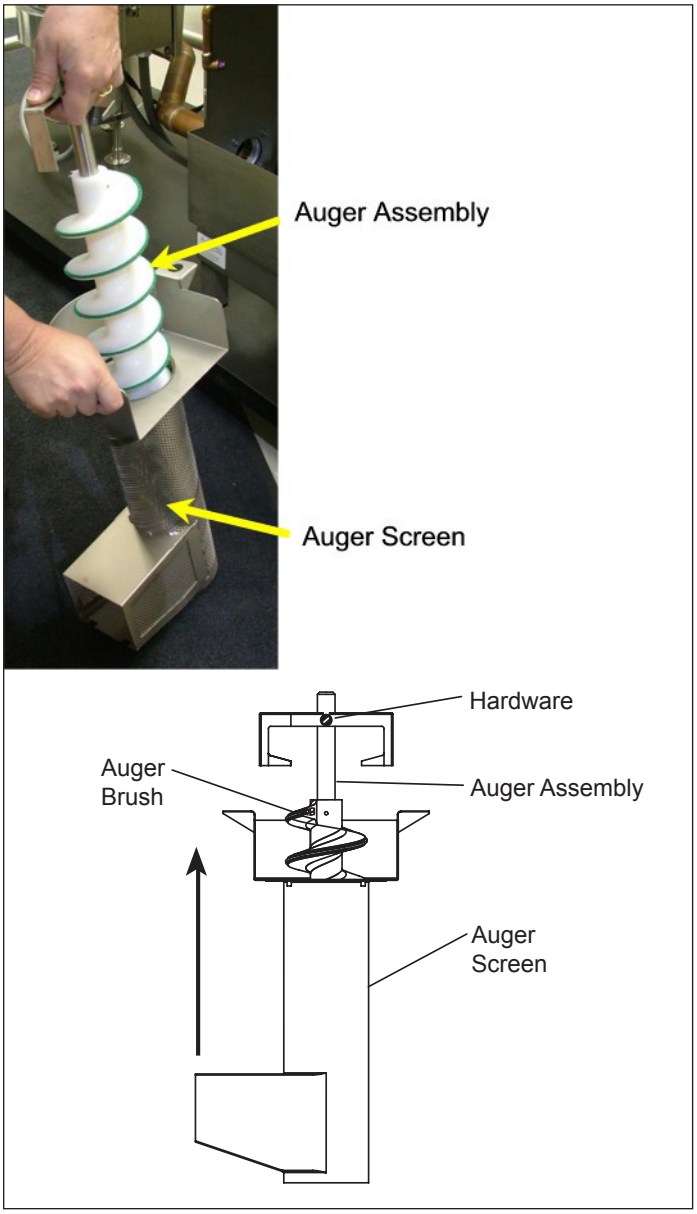


Figure 8. Auger Screen and Auger Assembly

Auger Screen Reversal

NOTE: *This procedure is only required when the inlet (waste line from disposer) on the WasteXpress cabinet has been reversed to accommodate disposer position. Re-orientation is required to ensure open side of discharge pan is facing toward chute. Failure to reverse discharge pan on screen will cause processed waste to fall into WasteXpress cabinet and not exit unit properly, potentially causing waste line blockages downstream of the WasteXpress system.*

1. Turn over auger screen with discharge pan resting on a flat work surface.
2. Remove four (4) nylock hex nuts (Figure 10).
3. Rotate screen 180°. Reinstall hex nuts and tighten.

Auger and Screen Installation

1. Place auger screen on a flat surface and insert auger, drive end first, from top of screen.
2. Align inlet shoe at base of screen with inlet flange of WasteXpress cabinet and open side of cabinet. Tilt assembly and guide base of screen over auger drive hub in base of cabinet. Push into place with minimal resistance. Flange ears on discharge pan of screen (top) should drop over retention pins and flanges at top of cabinet interior (Figure 9).

NOTICE **Do not force or pound auger and screen into place.**

3. Install bearing bracket assembly over guide pins and auger shaft. Slide retention clips outward toward ends of bracket (Figure 7).

NOTICE **If clips do not "click" bracket is not positioned correctly and will not hold auger in place. Unit will malfunction and damage will occur.**

4. Install discharge chute (Figure 6). Check position to ensure chute is positioned and seated correctly.

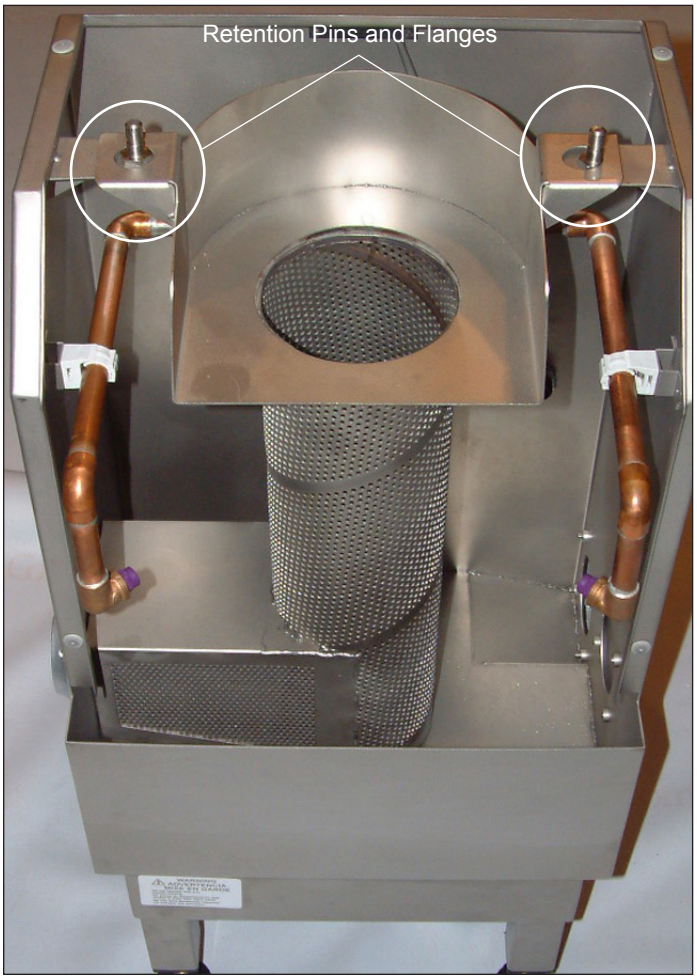


Figure 9. Installing Auger Screen and Auger Assembly

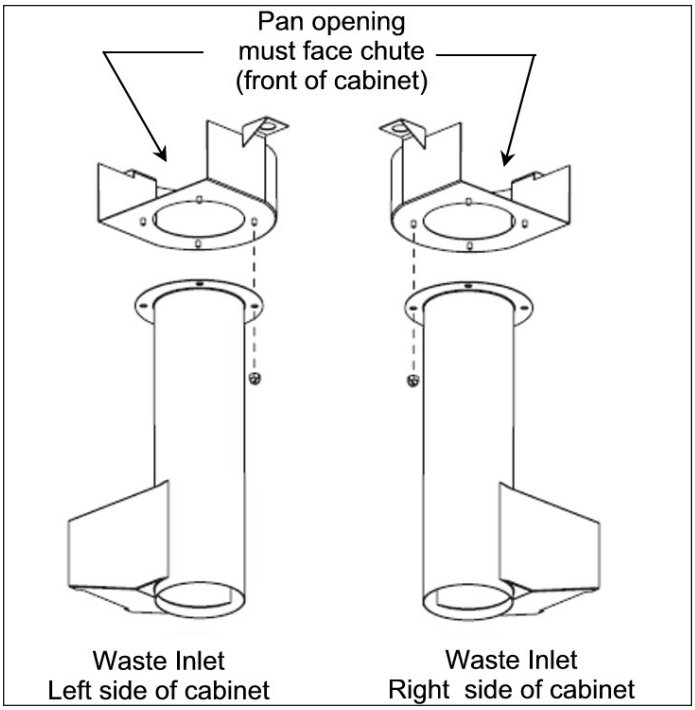


Figure 10. Reversing Auger Screen

AUGER DRIVE SYSTEM

⚠ WARNING **Electrical Shock! Turn off electrical supply to WasteXpress, control center and disposer before attempting to work on it. Test with a volt meter or circuit tester to ensure that power is off.**

NOTE: *Disconnect WasteXpress electrically and mechanically from rest of system prior to performing work on auger drive system and components. Unit should be pulled away from installation site and carefully turned on a side for ease of servicing.*

Auger Drive Belt Replacement

1. Remove slotted hex screws securing bottom cover in place and remove motor cover.
2. Loosen four (4) bolts (from top of unit) securing auger motor bracket (Figure 11) to frame.
3. Loosen tension bolt located on back of unit until there is sufficient slack in belt, then remove belt (Figure 11).
4. Install belt and remove slack by tightening tension bolt. **Do not overtighten.** Belt should have 3/8"-1/4" of deflection when properly tensioned.
5. Tighten four (4) bolts (from top of unit) securing auger motor bracket (Figure 11) to frame.
6. Install bottom cover and secure with slotted hex screws.

Auger Drive Pulley Replacement

1. Remove slotted hex screws securing bottom cover in place and remove motor cover and bottom cover.
2. Loosen four (4) bolts (from top of unit) securing auger motor bracket (Figure 11) to frame.
3. Loosen tension bolt located on back of unit until there is sufficient slack in belt, then remove belt (Figure 11).
4. Remove and inspect auger belt for damage or unusual wear. Replace if necessary.
5. Remove nut and washer securing pulley in position and remove pulley (Figure 11). Pulley removal may require use of a bearing or gear puller. Remove woodruff key.
6. Install new woodruff key and pulley. Secure with washer and nut.
7. Install belt and remove slack by tightening tension bolt. **Do not overtighten.** Belt should have 3/8"-1/4" of deflection when properly tensioned.
8. Tighten four (4) bolts (from top of unit) securing auger motor bracket (Figure 11) to frame.
9. Install bottom cover and secure with slotted hex screws.

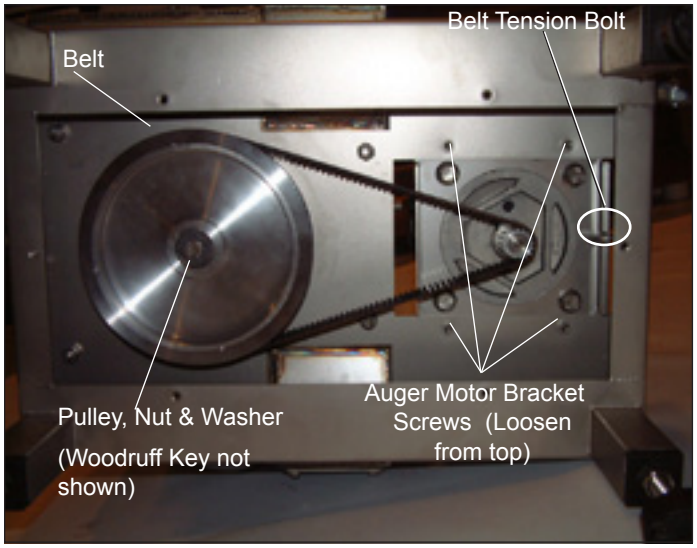


Figure 11. Pulley and Belt

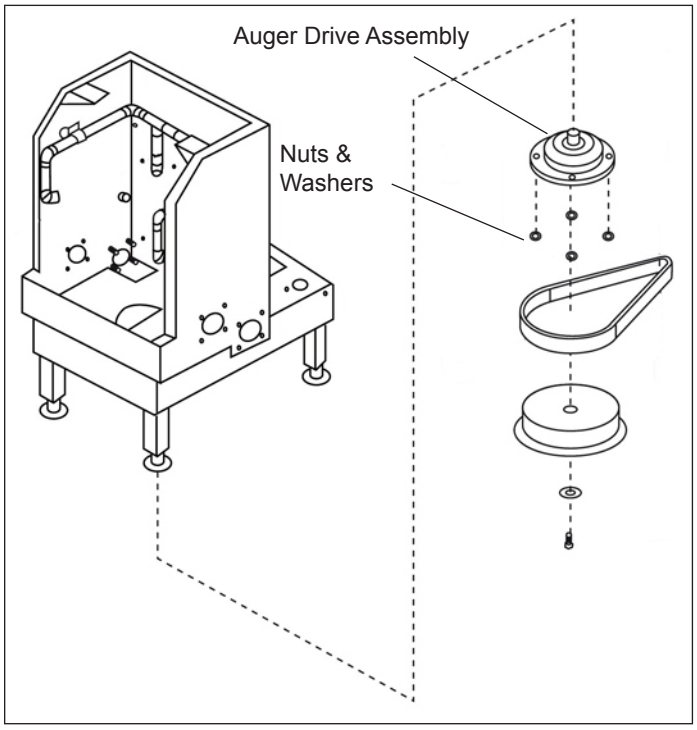


Figure 12. Auger Drive

Auger Drive Assembly Replacement

1. Remove slotted hex screws securing bottom cover in place. Remove motor cover.
2. Loosen four (4) bolts (from top of unit) securing auger motor bracket (Figure 11) to frame.
3. Loosen tension bolt located on back of unit until there is sufficient slack in belt, then remove belt (Figure 11).
4. Remove and inspect auger belt for damage or unusual wear. Replace if necessary.
5. Remove nut and washer securing pulley in position and remove pulley (Figure 11). Pulley removal may require use of a bearing puller. Remove woodruff key.
6. Remove nuts and washers securing auger drive (Figure 12). Using a rawhide, wooden or rubber mallet, tap downward on hub of auger drive from inside of cabinet (Figure 13).
7. Clean area surrounding hub opening of any old sealant or debris.
8. Run a bead of silicone sealant around the full diameter of the auger drive mounting flange.
9. Install auger drive assembly with nuts and washers (Figure 12).
10. Install new woodruff key and pulley. Secure with washer and nut.
11. Install belt and remove slack by tightening tension bolt. **Do not overtighten.** Belt should have 3/8"-1/4" of deflection when properly tensioned.
12. Tighten four (4) bolts (from top of unit) securing auger motor bracket (Figure 11) to frame.
13. Install bottom cover and secure with slotted hex screws.

Auger Motor Replacement

1. Turn off electrical supply and water supply to WasteXpress.
2. Holding both handles, remove discharge chute by tilting forward and lifting upward simultaneously (Figure 6).
3. Release retention clips on auger bearing bracket by moving inward and remove bracket (Figure 7).
4. Simultaneously lift and tilt auger screen/auger assembly and remove from cabinet.
5. The motor cover is secured to the cabinet with eight (8) screws. Remove two (2) screws with rubber gaskets accessed from inside the cabinet (Figure 13). Remove the six (6) outer screws securing cover to cabinet and remove motor cover.
6. Remove terminal block cover and gasket from side of cabinet (Figure 14).
7. Remove strain relief securing motor wires to terminal block (Figure 14).

   Remove slotted hex screws securing bottom cover in place and remove cover.

Figure 13. Removing Auger Drive

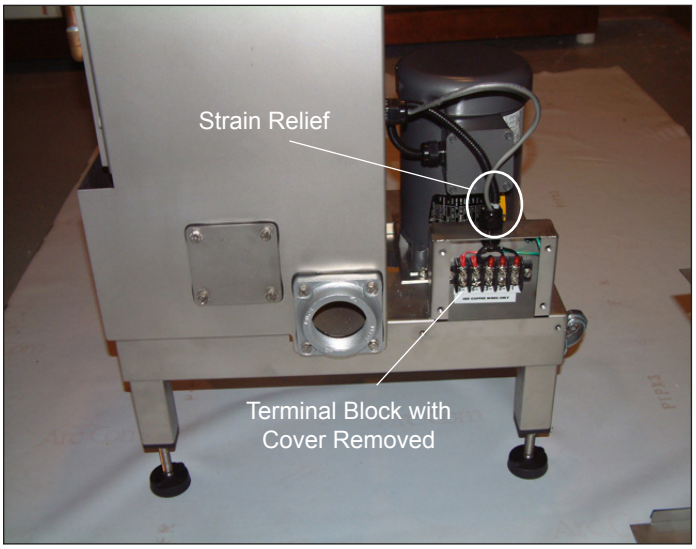


Figure 14. Terminal Block

9. Loosen four (4) bolts securing auger motor bracket (Figure 11).
10. Loosen tension bolt located on back of unit until there is sufficient slack in belt, then remove belt (Figure 11).
11. Remove and inspect auger belt for damage or unusual wear. Replace if necessary.
12. Remove wire harness from terminal block and remove ground terminal on auger motor (see wiring diagram).
13. Remove four (4) bolts and washers securing auger motor from underside of unit, then remove motor (Figure 15).
14. Install new motor with washers and bolts finger tight (Figure 15).
15. Check motor leads for proper electrical requirements. See Wiring Diagrams section in this manual.

NOTICE **Motor connections in motor must match voltage specifications for WasteXpress unit and WX101 Control Panel. Connecting motor to improper voltage can result in malfunction and/or component failure.**

16. Install wiring harness to terminals in motor (if shipped loose from motor).
17. Feed opposite end of wiring harness through strain relief in terminal block housing and connect to terminal block per wiring diagram. Secure ground wire to grounding terminal.
18. Tighten strain relief.
19. Install belt and remove slack by tightening tension bolt. Do not overtighten. Belt should have 3/8"-1/4" of deflection when properly tensioned.
20. Tighten four (4) bolts (from top of unit) securing auger motor bracket (Figure 11) to frame.
21. Install bottom cover and secure with slotted hex screws.
22. Install motor enclosure cover with outer six (6) hex screws and washers and two (2) inner hex screws and rubber gaskets (Figure 13).
23. Install terminal block enclosure cover and gasket on side of unit (Figure 14).
24. Turn unit right-side up. Place auger screen on a flat surface and insert auger, drive end first, from top of screen.

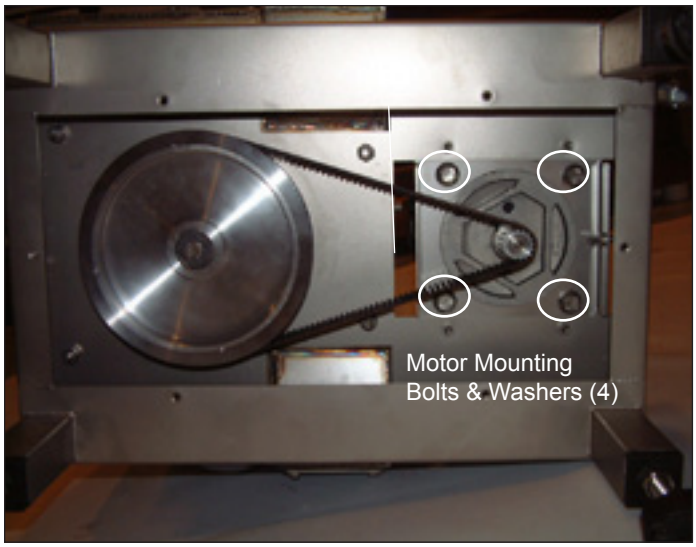


Figure 15. Auger Motor Mounting

25. Align inlet shoe at base of screen with inlet flange of WasteXpress cabinet and open side of cabinet. Tilt assembly and guide base of screen over auger drive hub in base of cabinet. Push into place with minimal resistance. Flange ears on discharge pan of screen (top) should drop over retention pins and flanges at top of cabinet interior (Figure 9).

NOTICE **Do not force or pound auger and screen into place.**

26. Install bearing bracket assembly over guide pins and auger shaft. Slide retention clips outward toward ends of bracket (Figure 7).

NOTICE **If clips do not "click" bracket is not positioned correctly and will not hold auger in place. Unit will malfunction and damage will occur.**

27. Install discharge chute (Figure 6). Check position to ensure chute is positioned and seated correctly.

WasteXpress® CABINET

Figure 16. Discharge Chute

⚠ WARNING **Electrical Shock! Turn off electrical supply to WasteXpress, control center and disposer before attempting to work on it. Test with a volt meter or circuit tester to ensure that power is off.**

Bearing Bracket

Replacing Captive Fasteners

1. Turn off electrical supply and water supply to WasteXpress.
2. Holding both handles, remove discharge chute by tilting forward and lifting upward simultaneously (Figure 16).
3. Release retention clips on auger bearing bracket by moving inward and remove bracket (Figure 17).
4. Remove hardware and discard (Figure 18).
5. From underneath, install threaded end of pin assembly through hole in cabinet flanged ear (Figure 17). Install flat washer and nut. Do not overtighten.

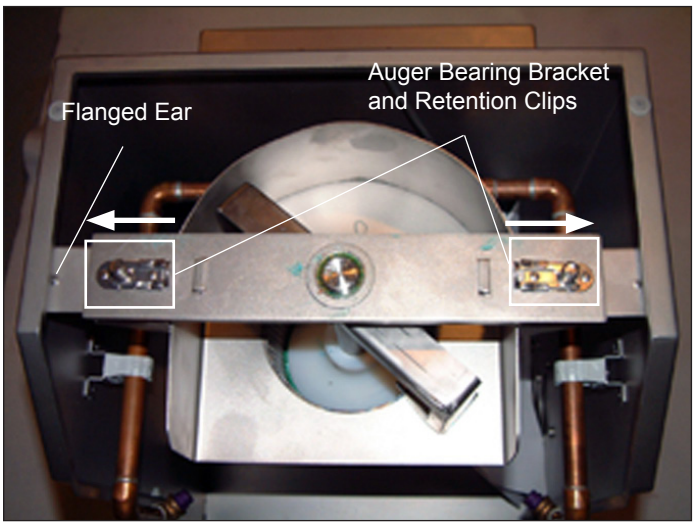


Figure 17. Auger Bearing Bracket and Fasteners

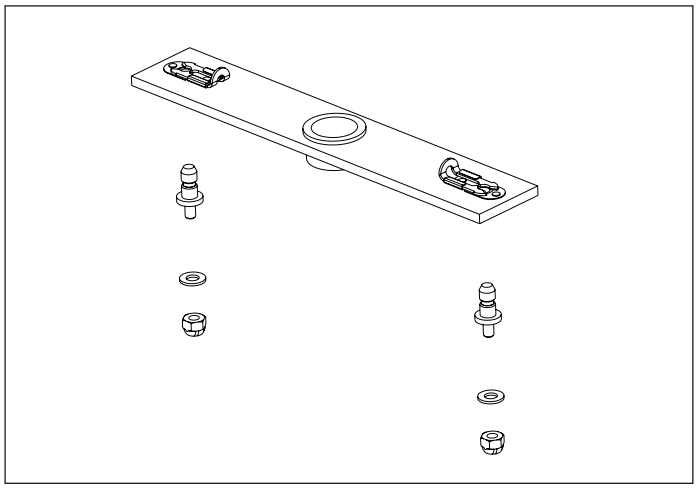


Figure 18. Auger Bearing Bracket and Hardware

6. Install bearing bracket over pins. Bracket should fall freely into place with no force.
7. Slide retention clips outward toward ends of bracket (Figure 17).

NOTICE **If clips do not "click" bracket is not positioned correctly and will not hold auger in place. Unit will malfunction and damage will occur.**

8. Lift up on bracket with two hands to verify that bracket is properly installed and is retaining auger and auger screen.
9. Install discharge chute (Figure 16). Check position to ensure chute is positioned and seated correctly.

HOT WATER SPRAY

Plumbing

1. Turn off electrical supply and water supply to WasteXpress.
2. Holding both handles, remove discharge chute by tilting forward and lifting upward simultaneously (Figure 19).
3. Release retention clips on auger bearing bracket by moving inward and remove bracket (Figure 20).
4. Simultaneously lift and tilt auger screen/auger assembly and remove from cabinet.
5. Loosen compression nut on “tee” fitting at the top rear of the cabinet (Figure 21).
6. Using a screwdriver, carefully unsnap copper tubing from retaining clips on both sides of cabinet and remove plumbing assembly (Figure 21).
7. Install new plumbing assembly. Snap into place in retaining clips. Install compression nut onto fitting and tighten.
8. Align inlet shoe at base of screen with inlet flange of WasteXpress cabinet and open side of cabinet. Tilt assembly and guide base of screen over auger drive hub in base of cabinet. Push into place with minimal resistance. Flange ears on discharge pan of screen (top) should drop over retention pins and flanges at top of cabinet interior (Figure 20).

NOTICE **Do not force or pound auger and screen into place.**

9. Slide retention clips outward toward ends of bracket (Figure 20).

NOTICE **If clips do not “click” bracket is not positioned correctly and will not hold auger in place. Unit will malfunction and damage will occur.**

10. Install discharge chute (Figure 19). Check position to ensure chute is positioned and seated correctly.

Spray Nozzles

1. Perform steps 1 - 6 above under “Hot Water Spray Plumbing”.
2. Remove spray nozzles from tubing assembly using either a box or socket wrench (Figure 21).
3. Apply plumbing thread sealant and install new nozzle(s). Do not overtighten.
4. Perform steps 7 - 10 above under “Hot Water Spray Plumbing”.

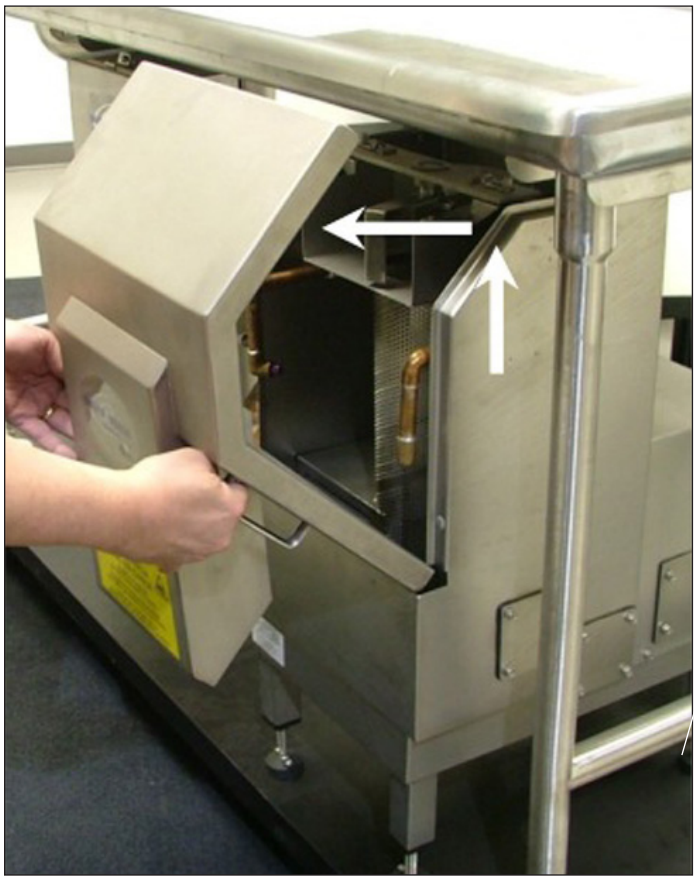


Figure 19. Discharge Chute

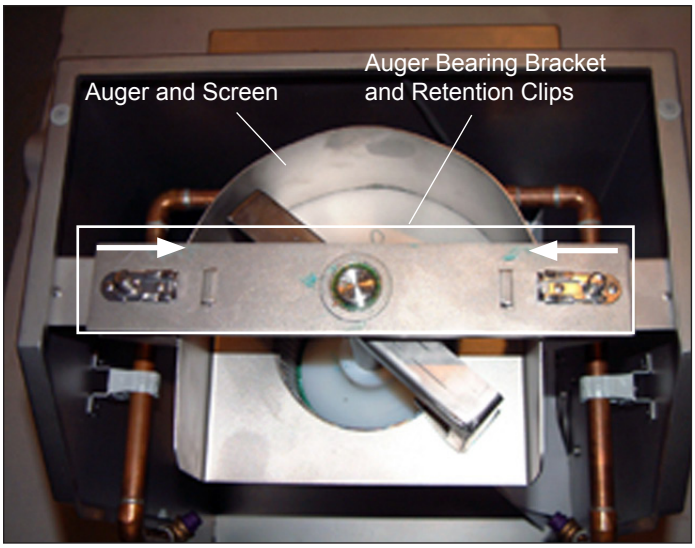


Figure 20. Auger Bearing Bracket and Fasteners

Inlet/Outlet Flange & Inlet/Outlet Cap

Based on installation requirements, the inlet and outlet positions may have been changed or may require change to accommodate the following:

- Disposer and/or disposer outlet orientation/position to WasteXpress inlet connection.
- WasteXpress outlet-to-sewer connection or floor drain location. In some applications, a dual drain connection may have been made due to higher waste water volume from the sink, bowl or trough for adequate drainage.

Flange/Cap Replacement

1. Disconnect WasteXpress from inlet and outlet plumbing connections (Figure 22).

NOTE: *Disconnection of hot water supply to WasteXpress may be necessary due to installation characteristics.*

2. Remove four (4) slotted hex head screws and lock washers securing flange in place on side of cabinet.
3. Remove any gasket material or sealant from side panel of cabinet.
4. Install new gasket and flange. Secure with four (4) slotted hex head screws and lock washers.
5. Reconnect to inlet and outlet plumbing connections. Reconnect to water supply if applicable.

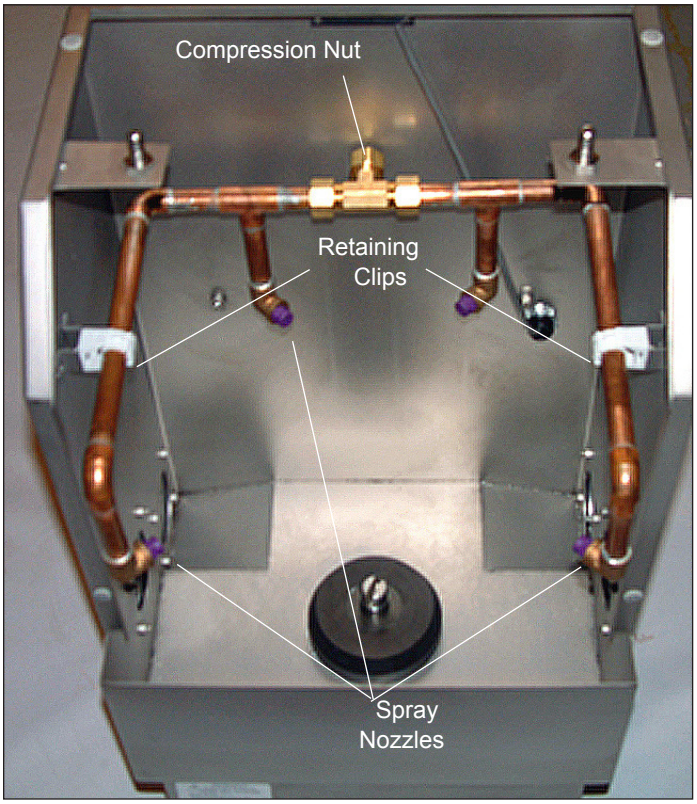


Figure 21.

Flange/Cap Relocation

NOTE: *WasteXpress cabinet inlet and outlets cannot be switched with each other; inlet cannot be used as outlet and outlet cannot be used as an inlet. They can only be switched from one side to the other side*

1. Disconnect WasteXpress from inlet and outlet plumbing connections.

NOTE: *Disconnection of hot water supply to WasteXpress may be necessary due to installation characteristics.*

2. Remove four (4) slotted hex head screws and lockwashers securing flange in place on side of cabinet.
3. Remove any gasket material or sealant from side panel of cabinet.
4. Re-position flange(s) and cap(s) based on location/source of inlet connection from disposer and outlet connection from sewer/floor drain.
5. Secure using slotted hex head screws and lockwashers.
6. Reconnect to inlet and outlet plumbing connections. Reconnect to water supply if applicable.

Adjustment Foot Replacement

1. Perform all steps under “Auger and Auger Screen Removal” on page 8.
2. Carefully tip unit on its side.
3. Disconnect WasteXpress from inlet and outlet plumbing connections. It may be necessary to disconnect hot water supply.

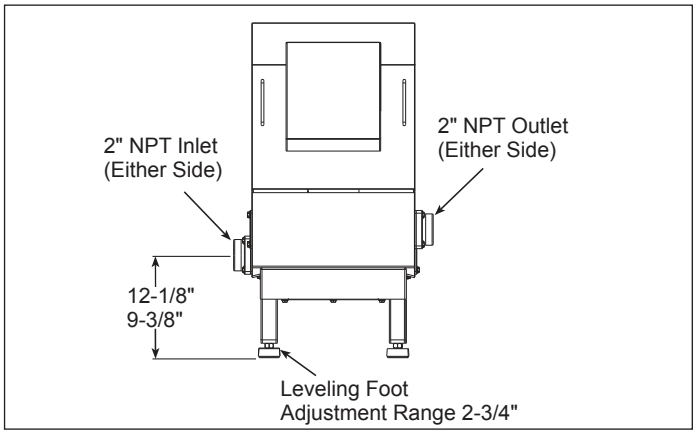


Figure 22. Inlet/Outlet

4. Remove adjustment foot. If necessary, use a screwdriver to carefully pry seam between foot insert and cabinet leg.
5. Insert new adjustment foot into cabinet leg. Carefully tap four corners of foot insert until insert is fully seated in leg.
6. Turn unit upright and reposition in place. Extend foot by adjusting each foot screw until unit is level (Figure 22).
7. Reconnect inlet and outlet plumbing connections. Reconnect hot water supply if applicable.
8. Perform all steps under “Auger and Screen Installation” on page 9.

⚠ WARNING **Electrical Shock! Turn off electrical supply to WasteXpress, control center and disposer before attempting to work on it. Test with a volt meter or circuit tester to ensure that power is off.**

Interlock Safety Switch

Continuity Test

NOTE: *Safety interlock circuit test must be performed with discharge chute securely in place.*

1. Turn off electrical supply and water supply to WasteXpress.
2. Remove terminal cover from right side of WasteXpress cabinet. (Figure 24).
3. Locate terminals #3 and #95 on terminal block. Disconnect and isolate lead wires #3 and #95 going to interlock switch.
4. Test continuity at wire leads #3 and #95, making certain mating surfaces of magnet and switch are clean and aligned to one another. If circuit test is “OK”, reconnect #3 and #95 at terminal block. If circuit test fails, replace magnet and switch. See “Replacing Interlock Switch” below.

Replacing Interlock Switch

1. Perform all steps under “Auger and Auger Screen Removal” on page 8.
2. The motor cover is secured to the cabinet with eight (8) screws. Remove two (2) screws with rubber gaskets accessed from inside the cabinet (Figure 23). Remove the six (6) outer screws securing cover to cabinet and remove motor cover.
3. Remove terminal block cover and gasket from side of cabinet (Figure 24).
4. Disconnect interlock wires leads #3 and #95 from terminal block.
5. Loosen strain relief on back of cabinet (Figure 23).
6. Pull interlock cable through cabinet, free of strain relief.
7. Detach and remove interlock switch from WasteXpress cabinet.
8. Detach and remove magnet from underside of discharge chute.
9. Install new magnet to underside of discharge chute with hardware provided.
10. Install new interlock switch to WasteXpress with hardware provided.
11. Feed cable through strain relief and into terminal block enclosure. Allow adequate slack from interlock switch to terminal block. Strip wire ends and connect wire leads #3 and #95 to terminal block.

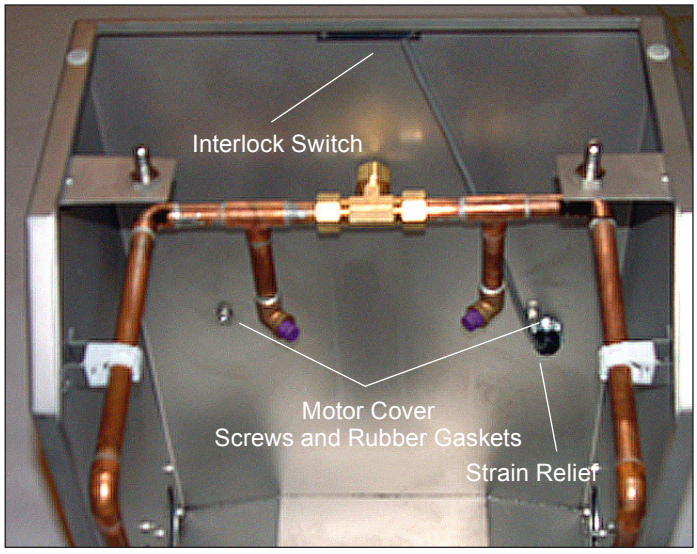


Figure 23. Interlock Switch Assembly

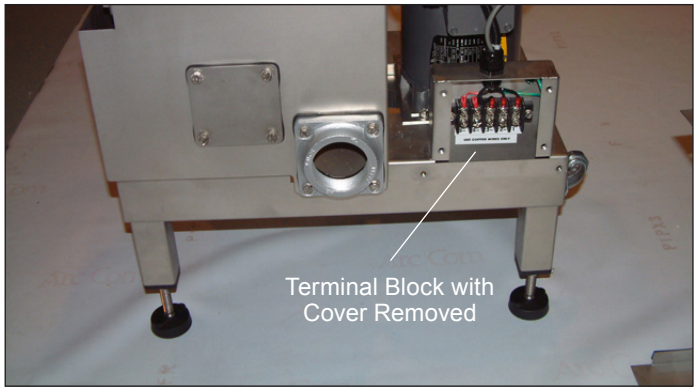


Figure 24. Terminal Block

12. Install motor enclosure cover with outer six (6) hex screws and washers and two (2) inner hex screws and rubber gaskets (Figure 23).
13. Install terminal block cover and gasket.
14. Perform all steps under “Auger and Screen Installation” on page 9.
15. Turn on electrical supply and water supply to WasteXpress. Wait 10-15 seconds before starting system to ensure system has completed its “self-test” in the control center.
16. Start the WasteXpress system. While system is running, remove the discharge chute to activate the interlock switch. System should immediately shut down. If system fails to shut down, refer to the “Troubleshooting” section in this manual.

ELECTRICAL

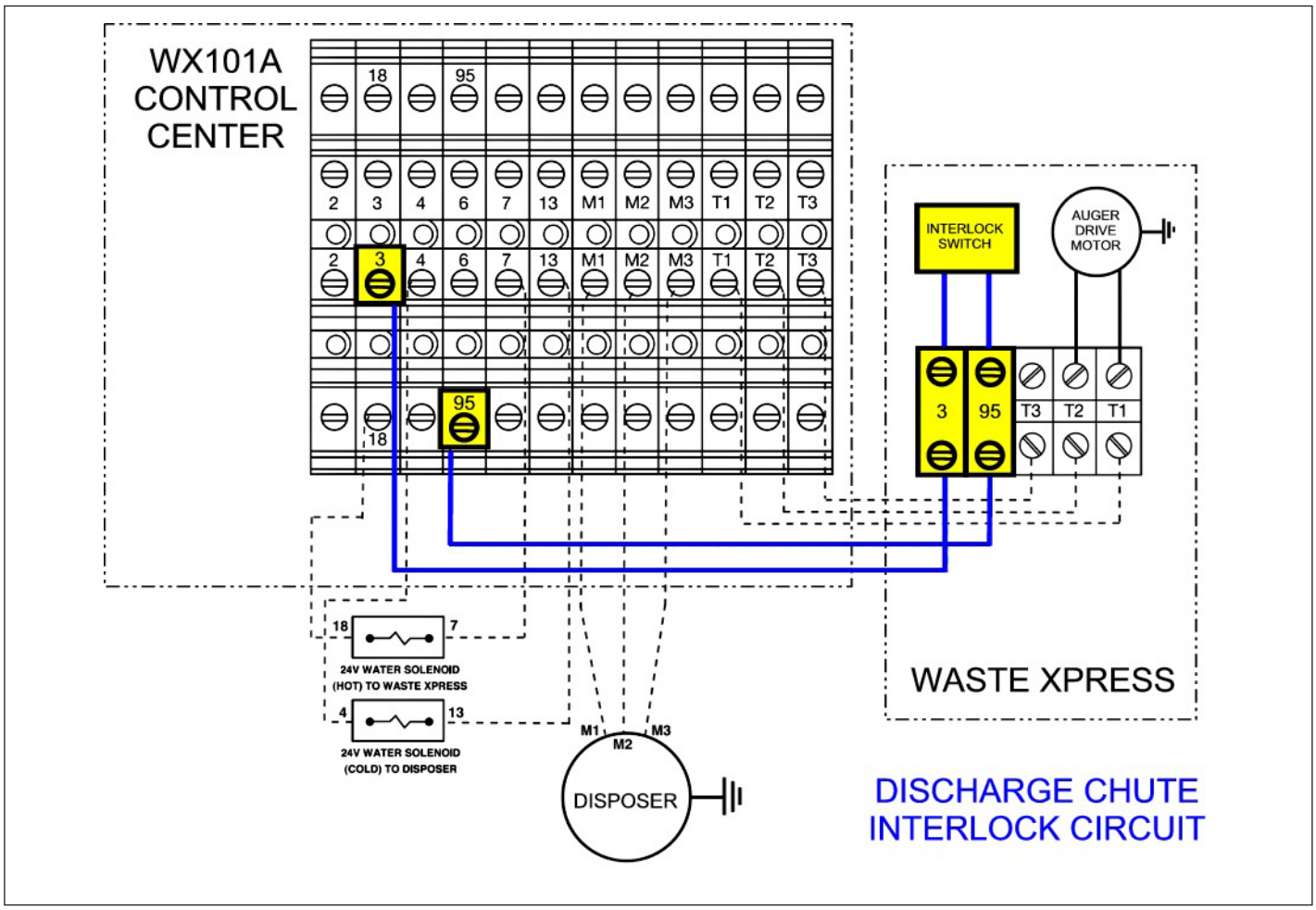


Figure 25. Safety Interlock Circuit

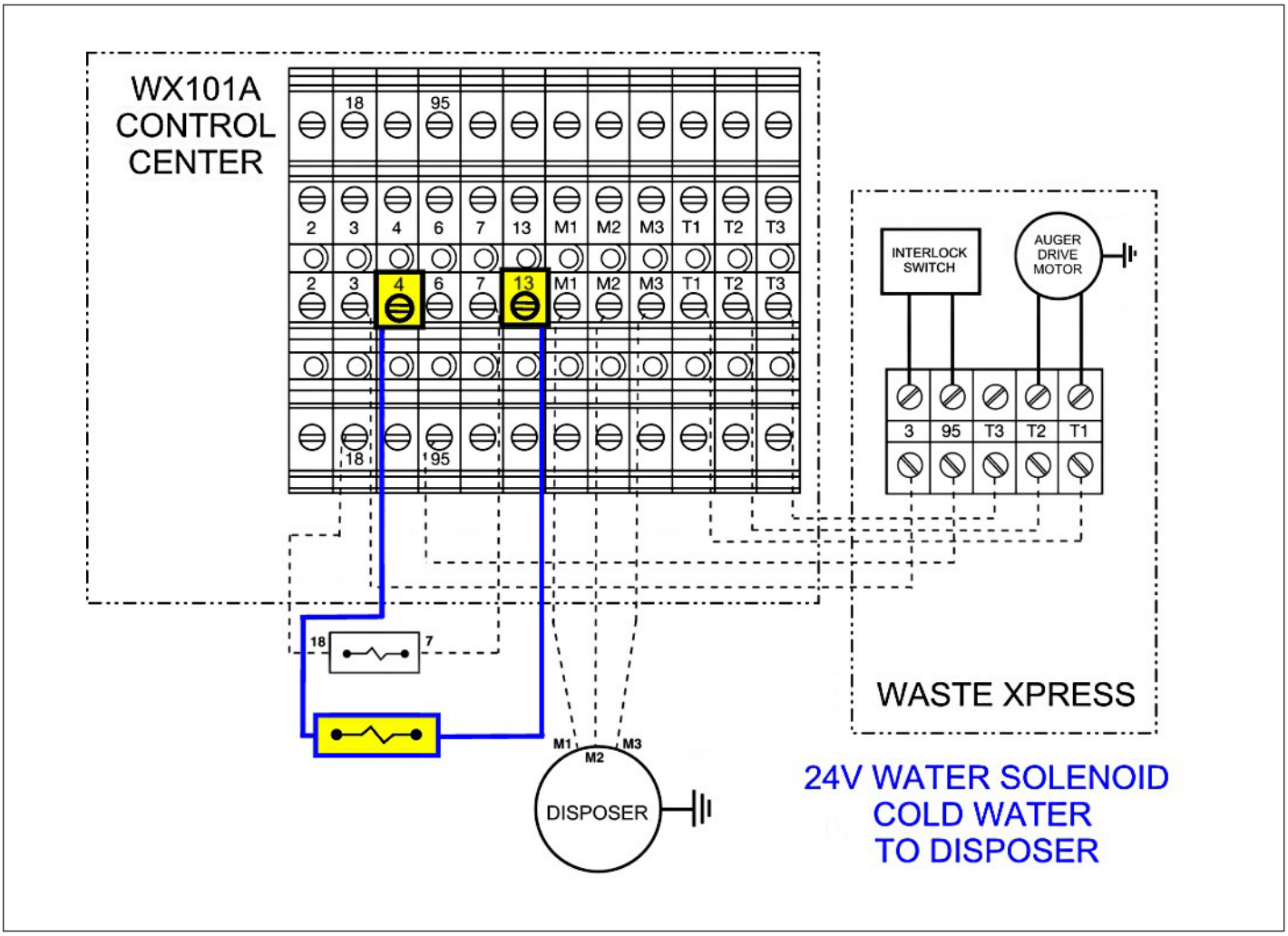


Figure 26. 24V Water Solenoid - Cold Water to Disposer

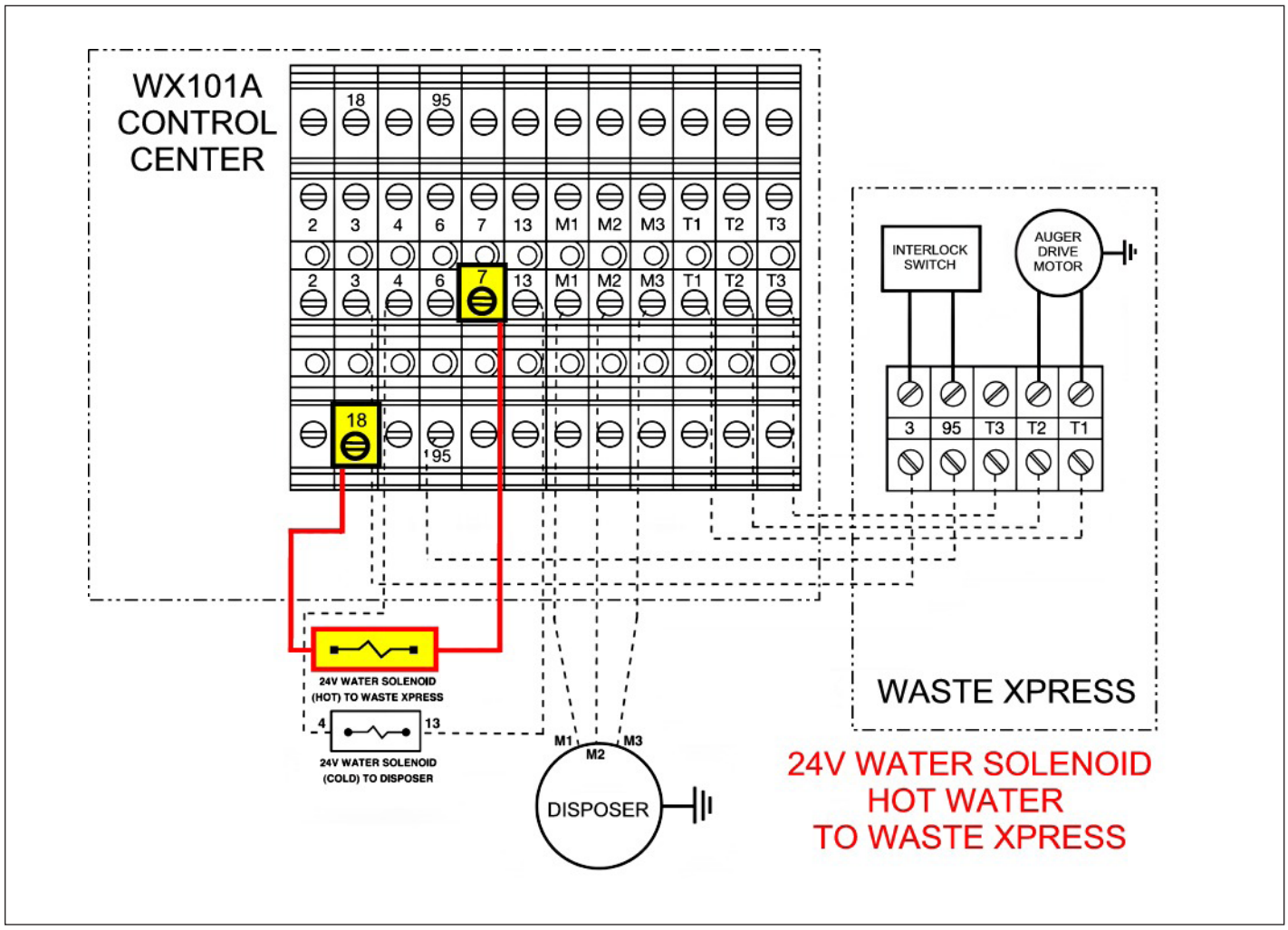


Figure 27. 24V Water Solenoid - Hot Water to Disposer

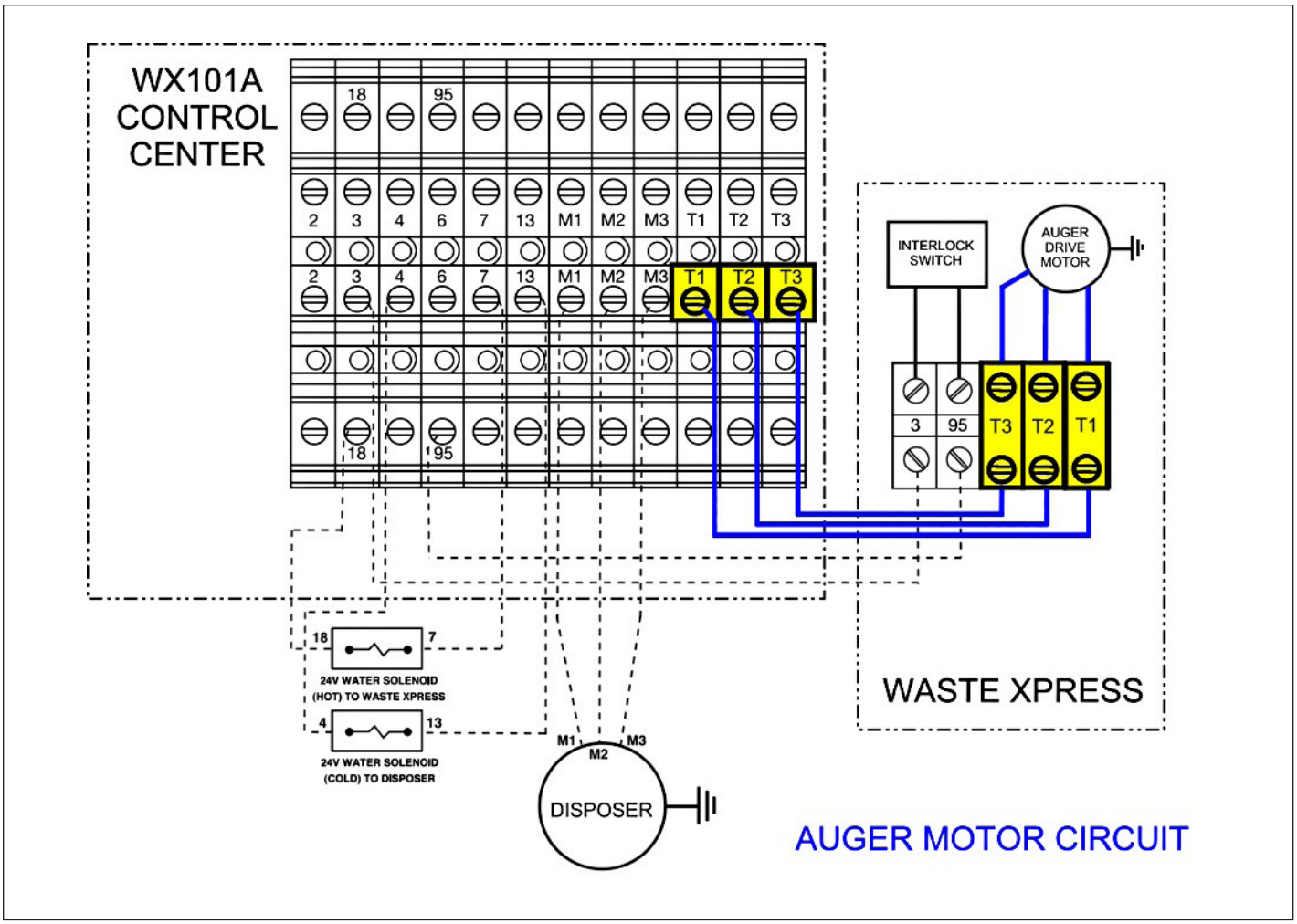


Figure 28. Motor Connection to WasteXpress®

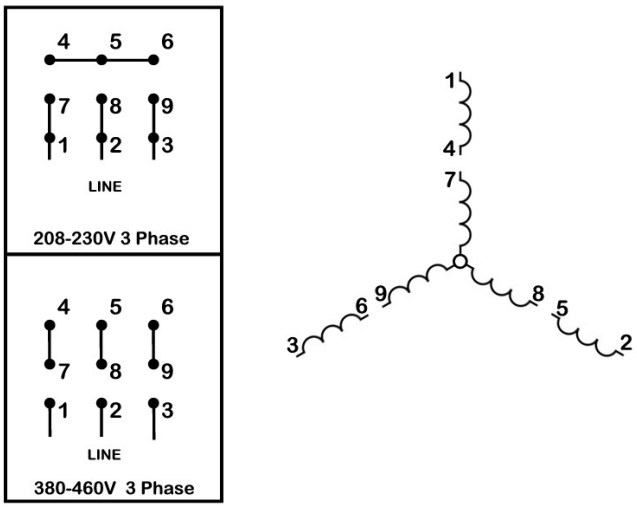


Figure 29. 3-Phase Motor Voltage Orientation

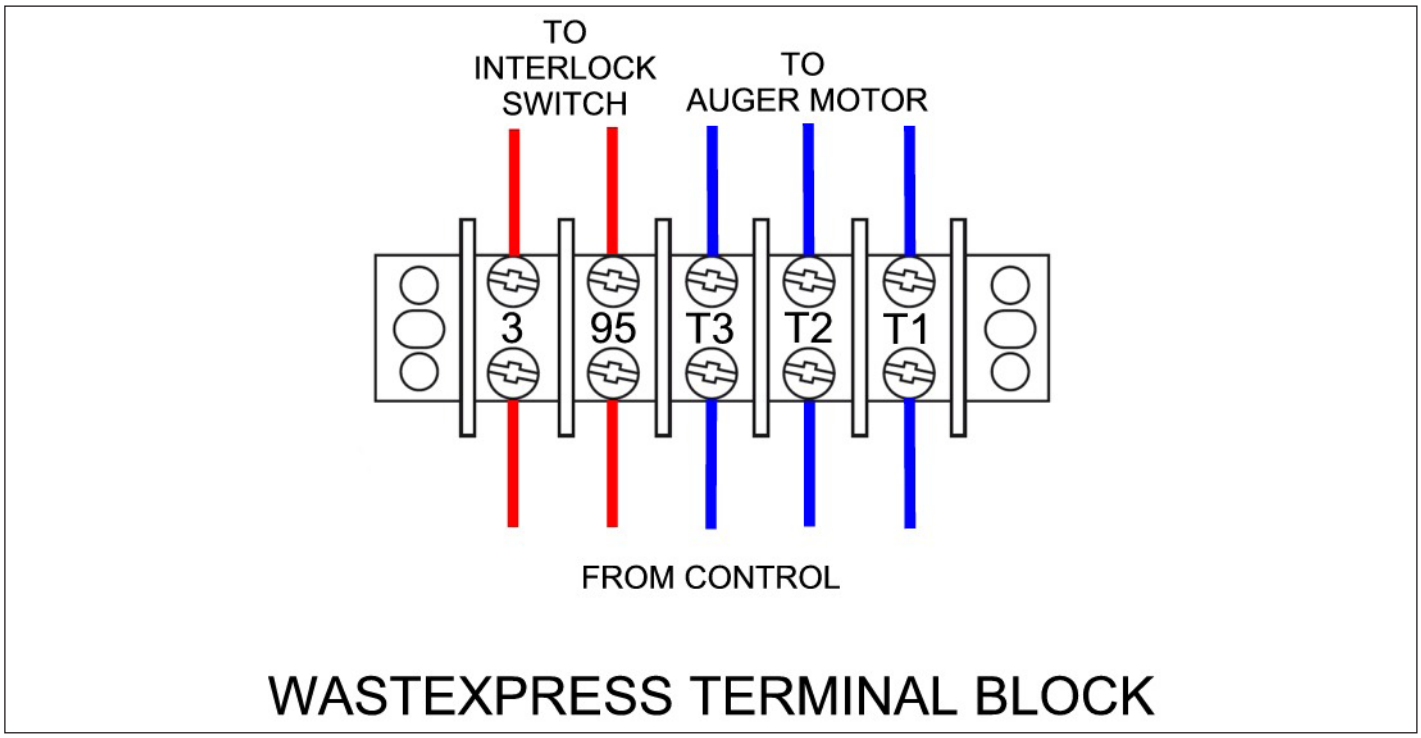


Figure 30. WasteXpress® Terminal Block

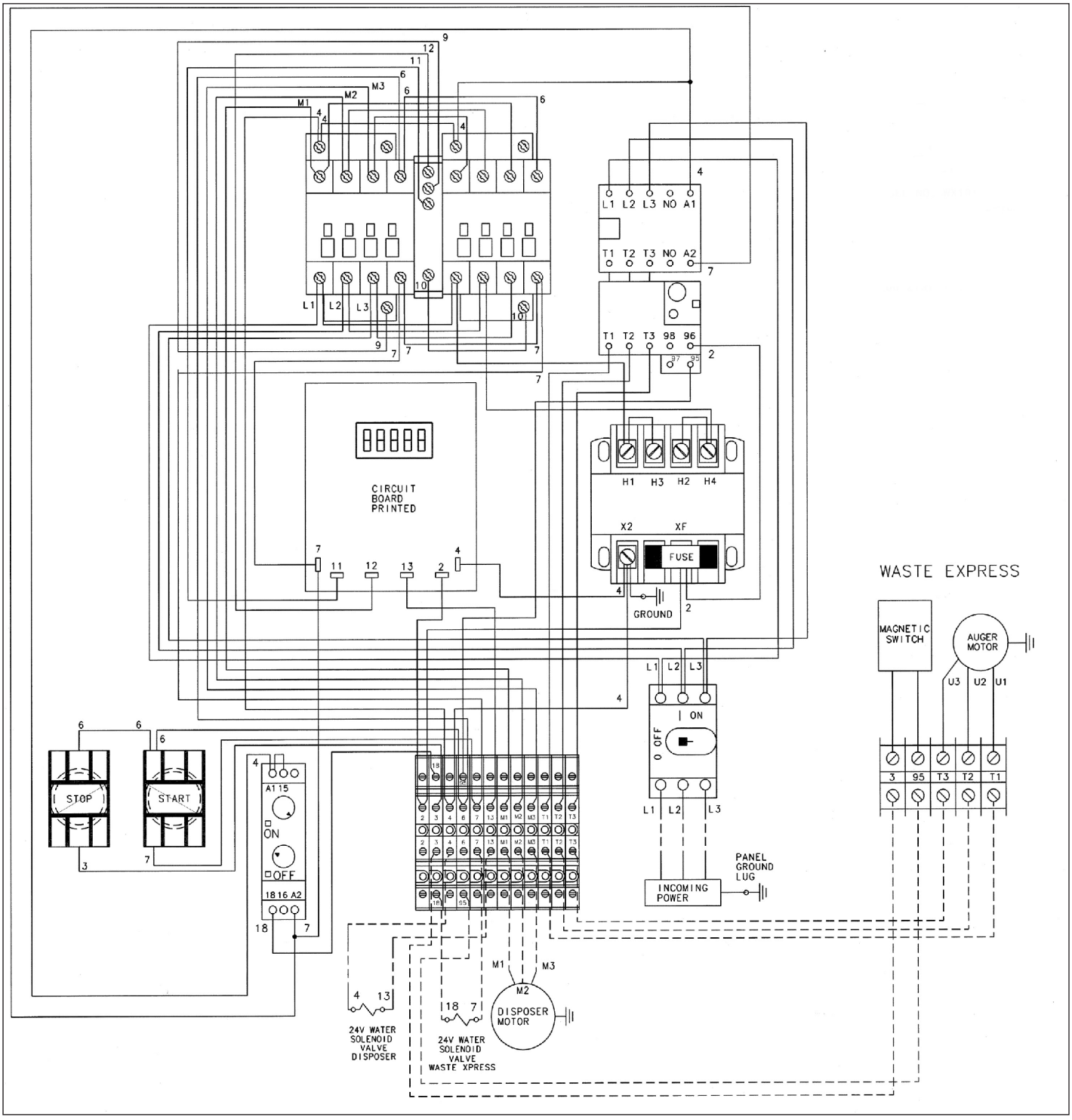


Figure 31. WasteXpress® 208 230V 3 Phase System Wiring Diagram

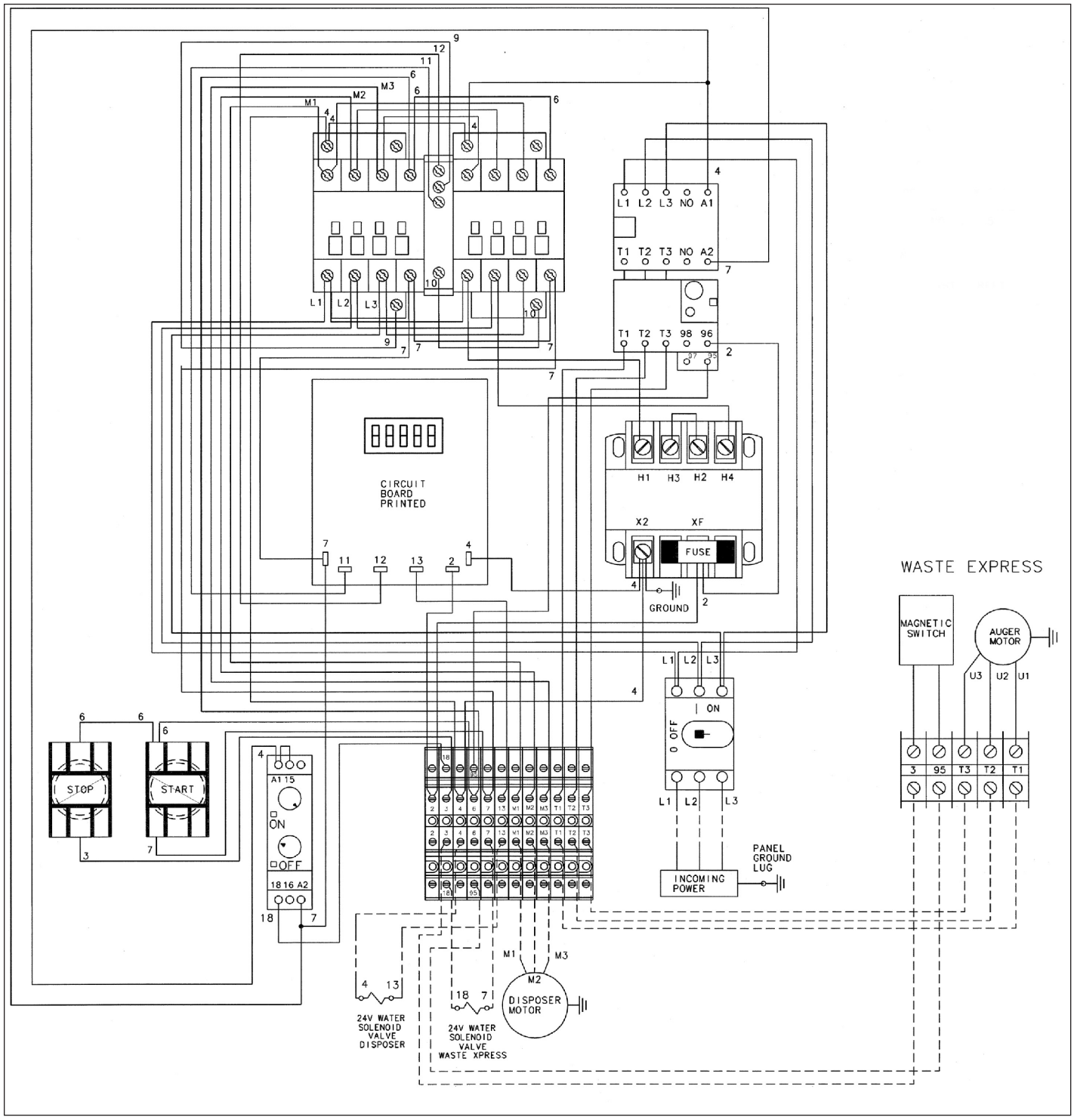


Figure 32. WasteXpress® 460V 3 Phase System Wiring Diagram

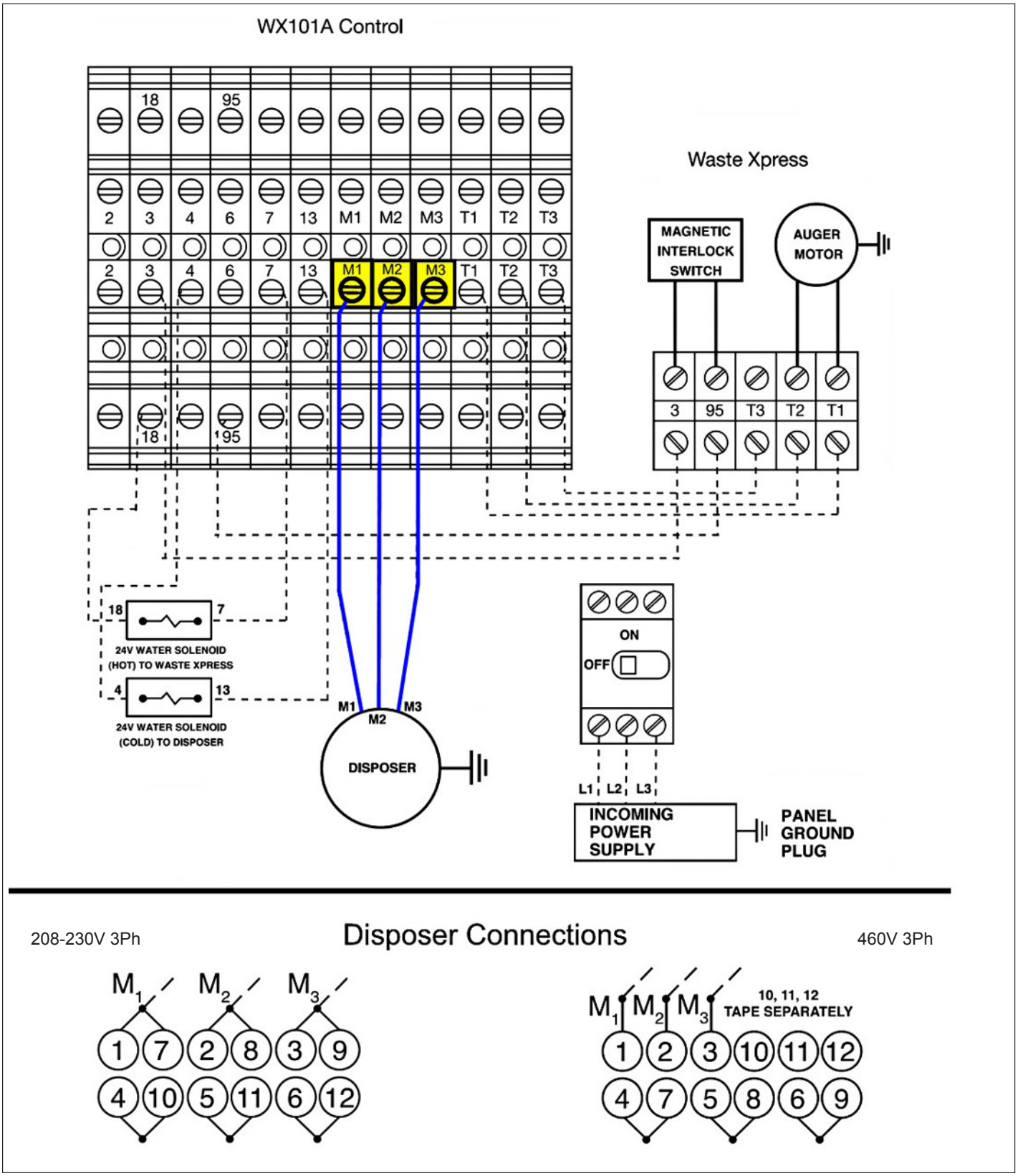


Figure 33. Disposer Connections

ADJUSTMENTS

⚠ WARNING **Electrical Shock! Turn off electrical supply to WasteXpress, control center and disposer before attempting to work on it. Test with a volt meter or circuit tester to ensure that power is off.**

Post Flush Water Delay Adjustment

The water shut off delay is adjustable from No Delay to 10 minutes. For trough systems, delay should be set for a minimum of 2 minutes.

1. Turn off electrical power to the control center and open the control center door.
2. Locate the water shut off delay at the top left of the printed circuit board (Figure 34).
3. Set DIP switches to the desired setting according to the guide on the board. DIP switch settings should match the white (filled in) areas of the chart not the black dot. See Figure 35 for correct switch positions

Note: *Setting the switch to match the position of the black dot on the circuit board is incorrect and post flush will malfunction. See Figure 35.*

4. Close the control center door. Turn on power to the control center.

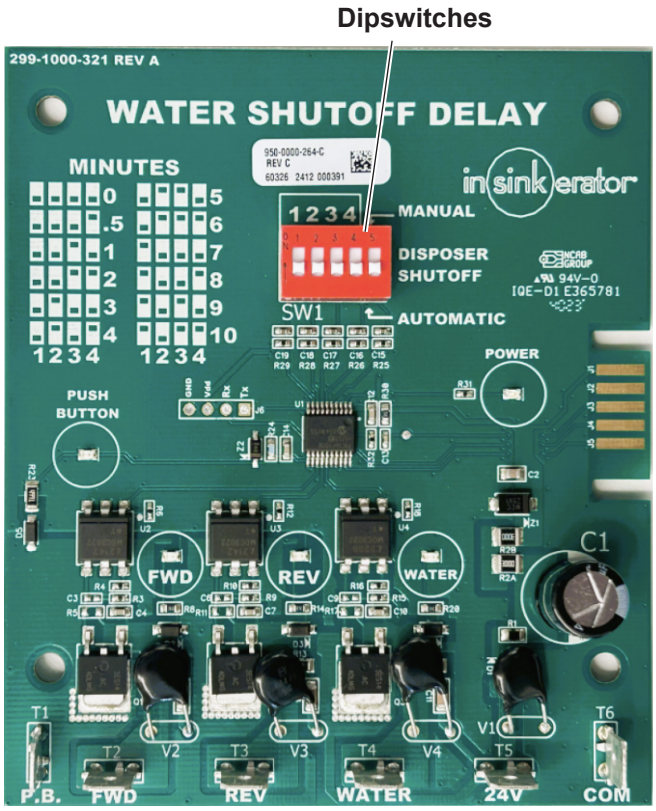
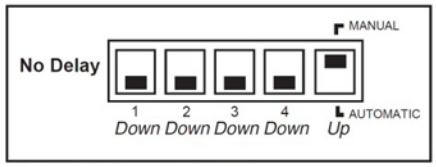
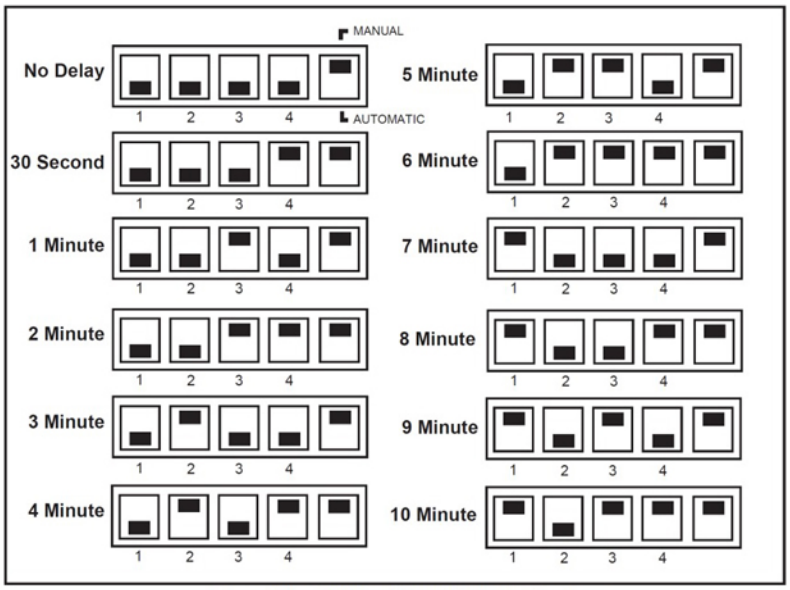


Figure 34. Circuit Board DIP Switches



Switch Position Example



Post Flush Water Shutoff Delay Settings

Figure 35. DIP Switch Settings

Hot Water Spray Adjustment

The hot water spray duration is set with the timer located in the control center. Turn off electrical power to the control center and open the control center door.

Use the following timer controls to set the hot water spray duration (Figure 36). See Table 1 below for setting examples.

1. Units of Duration — On Cycle.
2. On Time Duration.
3. Off Time Duration.
4. Units of Duration — Off Cycle.
5. Start Setting. On Duration or Off Duration.

Table 1: Sample Timer Settings

	Timer Control				
Hot Water Spray	**1**	**2**	**3**	**4**	**5**
10 seconds ON 1 minute OFF	1s	10	1	1m	ON
10 seconds ON 2 minutes OFF	1s	10	2	1m	ON

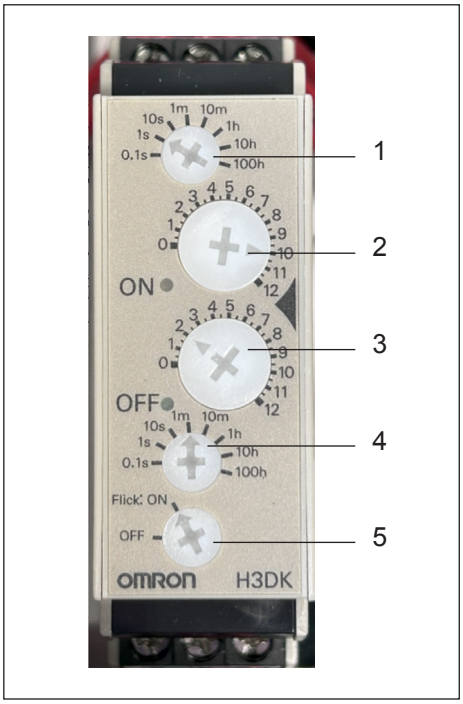


Figure 36. Timer

WasteXpress® Overload and Auger Motor Contactor

Because the overload and contactor for the auger circuit works in conjunction with one another they can be tested inter-connected or independently of one another.

Continuity/Resistance Test

1. Turn Line Disconnect Switch on WX101A to the “OFF” position and open cover.
2. Locate the WasteXpress overload and contactor block in the upper right-hand corner of the control (Figure 37).
3. Disconnect, identify, and isolate all wire leads connected to the overload and contactor (Test results will be invalid if any wire leads are left connected during the test). Components can be tested in place - do not remove from control box.
4. Depress gray reset on overload.
5. Insert small slotted screwdriver into manual override on left front side of contactor and push to the left to hold in place.
6. Check resistance across the following terminal combinations:

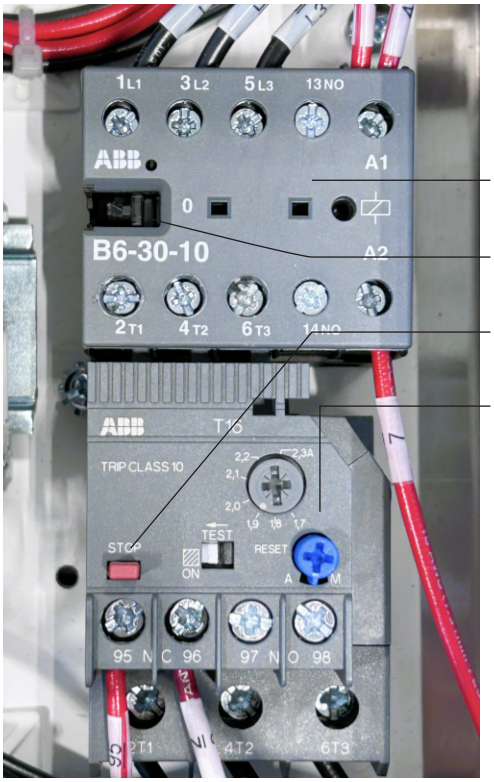


Figure 37. Continuity/Resistance Test

Contactor to Overload

- L1/T1
- L2/T2
- L3/T3
- Any “open” condition, retest same combinations on contactor only.
- If conditions are repeated, contactor is defective – replace contactor.
- If conditions do not repeat, overload is defective – replace overload.

Contactor only

- A1/A2 – “open” condition - replace.

Overload only

- 95/96 – “open” condition – replace.

Check across each terminal lug to “ground”. If continuity is found on any combination, replace the specific component accordingly.

WasteXpress® Overload Adjustment

NOTE: *The overload in the WX101A is pre-set at the factory when new. Any time system troubleshooting is required, or the overload is replaced in-service, the settings should be verified and adjusted if necessary. OVERLOAD AS A SERVICE PART IS NOT PRE-SET AT THE FACTORY.*

NOTE: *In the “A”utomatic mode, the overload resets itself automatically so that system can be restarted – it will not restart the system automatically.*

NOTE: *Setting of the limit adjustment above the set point that is recommended may cause damage to the electrical circuitry in the WX101A.*

The overload protecting the WasteXpress dewatering unit is located in the WX101A Control Center and activates if, and when, a peak amperage condition is sensed in the high voltage (load) supply to the auger drive motor. Abnormal spikes in this part of the system induced by one of the following:

- High torque conditions caused by a bearing failure auger drive unit.
- Change to the integrity of stator windings in the auger motor (open condition or short to ground).
- High volumes and/or compaction of waste (clog) in the waste line between the disposer and auger, causing the auger to stall and “lock up” during operation.

Table 2: System Operation

Control	Voltage	Overload Adj Range (Amps)	Adjustment Set Point (Amps)
WX101A-5	208-230V	1.6 - 2.4	2.0
WX101A-6	380-460V	1.0 - 2.0	1.0

To set the overload (see Figure 38):

1. Turn overload limit adjustment and align set point (see Table 2).
2. Depress and turn the Reset Mode Selector counterclockwise (CCW) to the “A” position (when released, button should remain engaged with indicator slot in button pointed toward “A”).

Figure 38. Overload Adjustment

To test overload:

1. Ensure discharge chute is securely in place on the WasteXpress.
2. With cover open on WX101A Control, activate Line Disconnect Switch to “ON” position using an adjustable wrench – wait 10-15 seconds before starting system to ensure system has completed its “self-test” in the control center.

⚠ WARNING **Electrical Shock! Interior of Control Center is “live” and high voltage present with Line Disconnect switch activated. Extreme care must be taken when troubleshooting or making adjustments to interior components of WX101A control.**

3. Start the WasteXpress system. While system is running, depress the red test switch on the overload. System should shut down and stop.
4. Restart system.
   - If system restarts, overload is working properly (skip to step 5).
   - If system does not restart, reposition reset mode selector to “H” (manual reset).
     - DO NOT REPOSITION BACK TO “A” – push reset – resistance may be felt and a “click” may be heard. Reset is spring loaded and should protrude from overload when released.
     - If overload does not respond to adjustment or will not reset, replace overload.
5. Using adjustable wrench, turn line disconnect to “OFF” position.
6. Close control center cover. Reposition cover retainer clips and tighten screws.

Solenoid Valves

The WasteXpress system utilizes two 24VAC water solenoid valves as a means of providing:

- COLD WATER – connected to the bowl or trough, which aids in the processing of waste in the disposer and, as a means by which to transfer processed waste downstream to the WasteXpress unit. The cold water solenoid is controlled by an adjustable timer (0 – 10 minutes), flushing the system and the drain lines after the system is shut off.
- HOT WATER – controlled by a programmable cycle timer, providing hot water to the spray jets inside the WasteXpress cabinet. These jets work in conjunction with the auger brush and aid in minimizing waste residue buildup, that may occur on the exterior of the auger screen while the system is operational.

Cold Water Solenoid
(Ref. Circuit #4 and #13)

Characteristics

Cold water should flow to the disposer any time the system is operational and depending on the Post Flush setting on the circuit board module, water can remain running – shutting off anywhere between 30 seconds and 10 minutes (1 minute increments) once the system is stopped.

Potential Cause(s) for malfunction

- Coil is defective.
- Valve is stuck “closed” – will not open when energized.
- Insufficient voltage to coil (18VAC minimum) from transformer or circuit board – will not open valve.
- Coil and/or circuit is wired incorrectly.
- 2 or more valves wired to circuit.

Verification

- #4 circuit being the “COMMON”, check voltage at:
  - #2 (XF/Fuse) on transformer.
  - #13 spade connection (“WATER”) on circuit board.
  - Terminal lugs on terminal block.
  - At any spliced connection between terminal block and valve coil.
  - Check for loose wire connections on any #4 and #13 connection or splices.

Voltage tests OK

- Shut down system. By process of elimination, disconnect and isolate wire leads #4 and #13 at closest splice to valve coil and work back toward #.

TROUBLESHOOTING

⚠ WARNING **Disconnect power before troubleshooting or servicing the disposer.**

⚠ CAUTION **Troubleshooting problems other than those listed in this section should be performed by qualified service personnel. Any troubleshooting performed by untrained personnel could result in electrical shock or damage to the disposer.**

SYSTEM TROUBLESHOOTING		
Problem	**Cause**	**Solution**
WasteXpress, disposer and water will not start or turn on.	Electrical supply is turned off.	Turn on electrical supply.
	Fuse is blown or circuit breaker tripped.	Replace fuse or reset circuit breaker.
	Discharge chute on WasteXpress is not aligned or sealed properly.	Reinstall chute to ensure proper fit.
	Waste blocking safety interlock.	Remove waste from safety interlock.
	Control circuit fuse (FLM2 or FNA2 approved) blown.	Replace fuse.
	24V power from control center (control circuit) is low or not present.	Troubleshoot control center in the following order: 1. Check resistance/voltage. 2. Fuse. 3. Transformer output (18V minimum.) 4. Circuit board - terminal #2 (18V minimum).
	Line Disconnect switch on control not in the ON position.	Turn to ON position. Wait 15-20 seconds for control to perform self-test before attempting to start system.
	Line Disconnect Switch on control is inoperable.	Check resistance across switch to verify. Replace if necessary.
	START switch on control center is inoperable.	Switch is N.O. - check resistance with button pushed in. Replace if necessary.
	STOP switch on control center is inoperable.	Switch is N.C. - check resistance with button released. Replace if necessary.
	DIP switch settings on circuit board in control center may not be set to specification.	Verify switch settings match diagram on circuit board. Reset if necessary.
Disposer will not start or stops while grinding - WasteXpress and water are operational.	Disposer overload is tripped.	Press stop button on control center and press red reset button on disposer. ***NOTE:*** *Button should be depressed until it "clicks". Unit may need to rest and cool prior to resetting overload.*
	Disposer is jammed.	Press stop button on control center and follow instructions for unjamming. See Disposer Operator Manual.

SYSTEM TROUBLESHOOTING		
Problem	**Cause**	**Solution**
WasteXpress, disposer and water will start when “start” button is pressed but shuts down when “start” button is released.	Insufficient time allowed after line Disconnect switch on control center is turned to ON position.	Allow 15-20 seconds prior to attempting system start up (at START switch) after turning Line Disconnect switch to the ON position.
	24V power from control center (control circuit) is low or not present.	Troubleshoot control center in the following order: 1. Check resistance/voltage. 2. Fuse. 3. Transformer output (18V minimum). 4. Circuit board - terminal #2 (18V minimum).
	Mechanical interlock on disposer reversing contactors is inoperable.	1. Verify that there is adequate control voltage (18V minimum) at all contactor terminals. If low voltage, troubleshoot the cause. 2. Depress manual override contactors to attempt startup. Replace contactors if voltage is 18V or higher and contactors will not lock in.
Full system shuts down unexpectedly.	Discharge chute on WasteXpress is not aligned or seated properly.	Reinstall chute to ensure proper fit.
	Fuse blown or circuit breaker tripped at power source.	Replace fuse or reset circuit breaker.
	24V power from control center (control circuit) is low or not present.	Troubleshoot control center in the following order: 1. Check resistance/voltage. 2. Fuse. 3. Transformer output (18V minimum). 4. Circuit board - terminal #2 (18V minimum).
	Operation mode on circuit board in control center is set for 10 minute automatic shutdown.	Reset dipswitch #5 to “Manual Mode”.
	STOP button on control center has been pushed.	Push START button on control center.
	Line Disconnect switch has been turned to OFF position.	Turn to ON position. Wait 15-20 seconds for control to perform self-test before attempting to start system. ***NOTE:*** *Line disconnect switch is only intended for use in the event of control center servicing. It is not designed, or intended for, shutting down the unit.*
WasteXpress, disposer and water run, but no waste is exiting the discharge chute.	Auger is not sufficiently primed with waste after cleaning.	Allow unit to run longer to prime itself.
	Insufficient amount of waste being processed.	Waste will exit when more waste is added.
	Auger screen is not oriented correctly (discharge pan opening is facing back wall of cabinet-all waste is falling into cabinet and exiting unit via drain.	Reverse auger screen orientation 180°. Pan opening must face front of machine and screen intake must fit over waste inlet on side of cabinet.
	Auger is running in wrong direction.	Reverse auger motor leads L1 and L2 in terminal box on side of WasteXpress.
SYSTEM TROUBLESHOOTING		

SYSTEM TROUBLESHOOTING		
Problem	**Cause**	**Solution**
Water backs up into disposer (does not drain properly).	Waste line between WasteXpress unit and disposer is clogged.	Clean waste line. Clean auger and screen if necessary.
	Auger not turning.	Inspect auger drive system: belt, auger drive, pulleys and auger motor.
	Auger and screen plugged.	Clean auger and screen.
Water exits WasteXpress at front of unit.	High water level.	Add second waste outlet. Connect from WasteXpress cabinet to sewer connection (typical on trough installations).
		Verify system has 5 gpm flow control and shut off valve installed. Install if missing.
WasteXpress will not run but disposer and water are operational.	WasteXpress motor contactor is inoperable.	Check resistance at T1/T2/T3 with contactor pushed in. Replace if necessary.
	WasteXpress overload will not reset.	Verify Reset on overload is set to “A” (automatic reset). Adjust limit (208-240V = 2.0A; 380-460V = 1.0A; 380V = 0.9A). Push the red square “test” button to verify function. Check resistance at T1/T2/T3. Replace if necessary.
	Auger drive system failed.	Inspect auger drive system: belt, auger drive, pulleys and auger motor.
No hot water spray.	Water is turned off.	Turn water on.
	Solenoid valve is clogged.	Disassemble valve, clean and reassemble.
	Solenoid valve is inoperable.	Check resistance. Verify valve is not stuck open or closed. Replace if necessary.
	Spray nozzles are clogged.	Clean and reinstall, or replace.
	Timer is not set properly.	Reset timer per instructions. See “Hot Water Spray Adjustment” on page 28.
No cold water flow.	Water is turned off.	Turn water on.
	Solenoid valve is clogged.	Disassemble valve, clean and reassemble.
	Solenoid valve is inoperable.	Check resistance. Verify valve is not stuck open or closed. Replace if necessary.
	Post flush setting in control center is not correct.	Reset per schematic on circuit board.

SYSTEM TROUBLESHOOTING		
Problem	**Cause**	**Solution**
Hot water will not shut off.	Solenoid valve is clogged.	Disassemble valve, clean and reassemble.
	Solenoid valve is inoperable.	Check resistance. Verify valve is not stuck open or closed. Replace if necessary.
	Timer is inoperable.	Replace timer.
	Timer is not set properly.	Reset timer per instructions. See “Hot Water Spray Adjustment” on page 28.
	Solenoid valve installed incorrectly.	Re-plumb solenoid valve with arrow on valve body pointing in direction of water flow.
Cold water will not shut off.	Solenoid valve is clogged.	Disassemble valve, clean and reassemble.
	Solenoid valve is inoperable.	Check resistance. Verify valve is not stuck open or closed. Replace if necessary.
	Post flush setting control center is not correct.	Reset per schematic on circuit board. See “Post Flush Water Delay Adjustment” on page 27.
	Solenoid valve installed incorrectly.	Re-plumb solenoid valve with arrow on valve body pointing in direction of water flow.
Cold water shuts off when WasteXpress shuts off.	System being shut down using Line Disconnect switch on control center.	Use STOP and START pushbuttons. Line Disconnect switch is only deactivated when system maintenance is required.
	Post flush settings on circuit board in control center are not to specification.	Reset DIP switches on circuit board to desired amount of time.

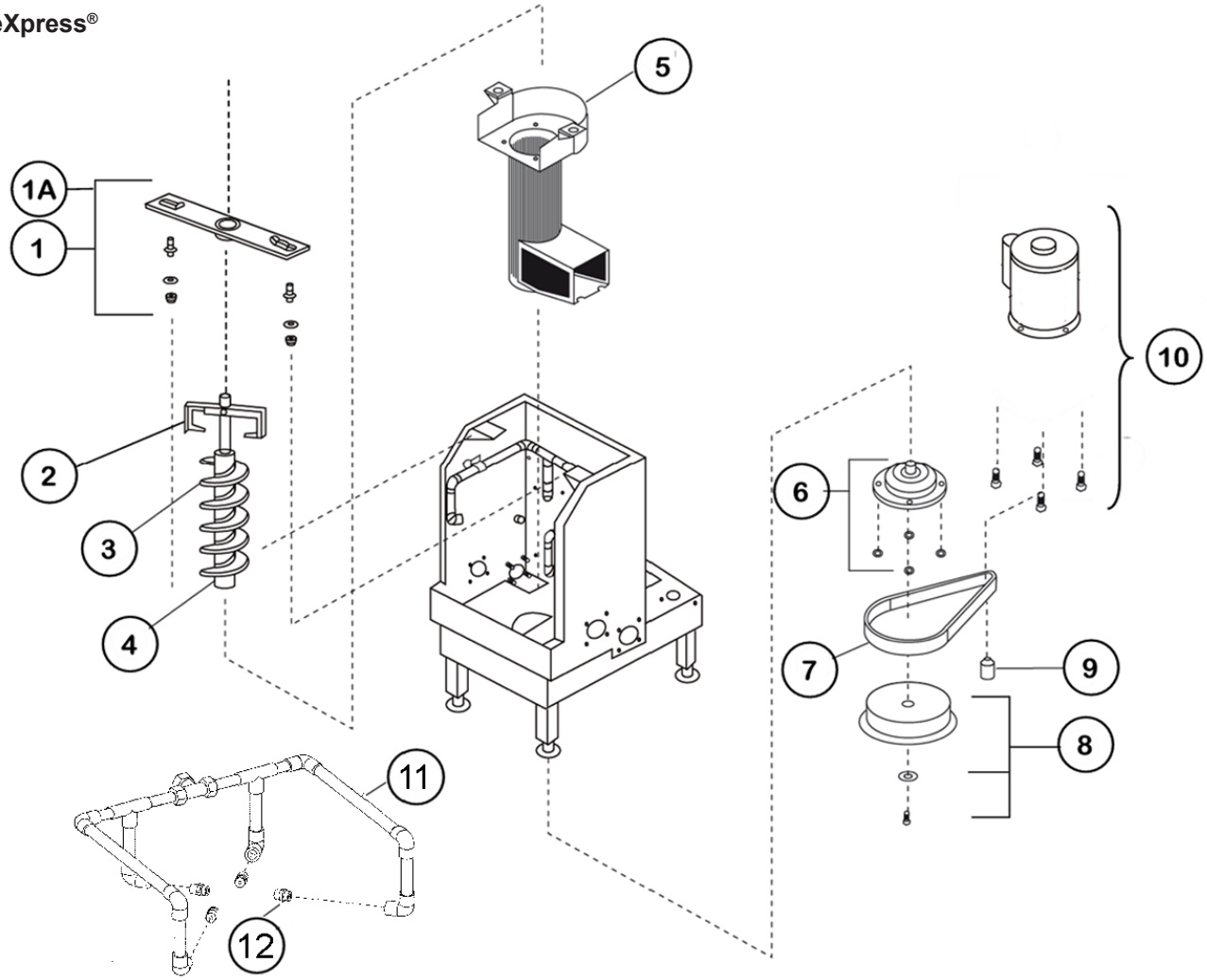
DISPOSER TROUBLESHOOTING		
Problem	**Cause**	**Solution**
Disposer will not start and water will not flow.	Electrical supply turned off.	Turn on electrical supply.
	Line Disconnect switch on control center not in the ON position.	Turn to ON position. Wait 15-20 seconds for control to perform self-test before attempting to start system. ***NOTE:*** *Line disconnect switch is only intended for use in the event of control center servicing. It is not designed, or intended for, shutting down the unit.*
	START switch on control center is inoperable.	Switch is N.O. Check resistance with button pushed in. Replace if necessary.
	STOP switch on control center is inoperable.	Switch is N.C. Check resistance with button released. Replace if necessary.
	DIP switch settings on circuit board in control center may not be set to specification.	Verify switch settings match diagram on circuit board. Reset if necessary.
	24V power from control center (control circuit) is low or not present.	Troubleshoot control center in the following order: 1. Check resistance/voltage. 2. Fuse. 3. Transformer output (18V minimum). 4. Circuit board - terminal #2 (18V minimum).
Disposer does not reverse direction.	Disposer was restarted too quickly.	Wait 15-20 seconds prior attempting restart. Control has anti-reverse logic to protect disposer from sudden reversal prior to coming to a full stop.
Disposer will not start or stops while grinding.	Disposer overload is tripped.	*Press STOP button on control center and press red RESET button on disposer.* ***NOTE:*** *Button should be depressed until it "clicks". Unit may need to rest and cool prior to resetting overload.*
	Operation mode on circuit board in control center is set for 10 minute automatic shutdown.	Reset switch to #5 "Manual Mode".
	Disposer is jammed.	Press STOP button on control center and follow instructions for unjamming. See Disposer manual.

WasteXpress® TROUBLESHOOTING		
Problem	**Cause**	**Solution**
Auger runs in counterclockwise rotation.	Power to auger motor is reversed.	Auger must run in clockwise direction. Reverse auger motor leads L1 and L2 on WasteXpress terminal block, or reverse L1 and L2 at auger motor connections in control center.
Auger reverses rotation on each restart.	Auger motor is wired to disposer motor circuit.	Rewire per schematic and/or ICU instructions.
WasteXpress will not shut off when discharge chute is removed from WasteXpress unit.	Safety interlock switch is not wired correctly.	Verify leads are connected to terminal #3 and #95 in WasteXpress terminal box and on terminal block in control center.
WasteXpress will not start.	Safety interlock switch is inoperable.	1. Disconnect leads from #3 and #95 terminals in WasteXpress unit. Check resistance with discharge chute in place. If test OK, reconnect leads at WasteXpress. 2. Disconnect leads #3 and #95 at terminal block in control center. Replace switch if "open" condition is found.
Hot water spray is cold.	Hot water not connected or unavailable.	Connect to hot water line per ICU instructions.
	Cold water solenoid is wired to hot water spray circuit.	Rewire per schematic and/or ICU instructions.
	Cold water solenoid is wired correctly but is plumbed to hot water spray.	Re-plumb. Hot water is most likely plumbed to trough, sink or bowl.
Repetitive "hammering" sound coming from WasteXpress unit while running. No waste exiting unit at discharge chute.	Auger is plugged. System has been either batch fed or auger drive system has failed. Waste buildup causing auger to malfunction - not engaging with auger drive correctly.	Shut system down and clean unit. Determine cause of plug.
Unusual metallic sound emitting from WasteXpress unit while running; continuous "grinding" or intermittent "slapping" sound.	Auger paddle is loose or making contact with discharge pan - top of auger screen.	Realign paddle perpendicular to auger shaft and tighten retention hardware.
Waste line clogs between disposer and WasteXpress unit.	System is being batch fed.	Feed waste at moderate and even rate. Do not attempt to process high volume all at one time.
	System is being shut down prematurely. It is not being allowed to properly clean itself of waste.	Allow system to run 3-5 minutes before shutting down, allowing the system to clear itself.
	Auger and screen not being cleaned properly. Waste buildup has hardened and created a clog over time.	Disassemble and clean the WasteXpress unit a minimum once per day.
	Auger is running in wrong direction.	Reverse auger motor leads L1 and L2 at terminal block on WasteXpress unit or at auger motor connection in control center.
	Lack of cold water flowing through system.	Increase water flow to 5 gpm.
	Waste mix has a high fibrous content (stringy food waste and/or cardboard).	Cardboard cannot be processed. Fibrous food waste should be balanced into the waste mix with other food waste products.

WasteXpress® TROUBLESHOOTING		
Problem	**Cause**	**Solution**
Waste exiting WasteXpress unit is extremely wet.	Excessive moisture in waste being processed or high volume of liquids being processed through system.	Slow down feed rate of waste to disposer while processing. Do not process large volumes of watery waste by itself. Balance waste mix with other types of food waste and/or disposables.
	No flow control valve in cold water line. Full line flow from source being directed to system.	Install 5 gpm flow control valve. Install shut off valve if none included in original installation.
Water (non-vapor) exiting discharge chute while system is running.	High grease content in waste mix. Buildup on screen is not being cleaned sufficiently and is causing a “chimney” to form. Hot water spray cycle ON time is insufficient to keep screen clean affecting water drainage.	Adjust hot water spray cycle to increase hot water volume per ON cycle or shorten the OFF time to increase the number of total ON/OFF cycles in a given period.
Processed waste is draining from cabinet at outlet to sewer. No waste exiting WasteXpress unit at discharge chute.	Auger is running in wrong direction.	Reverse auger motor leads L1 and L2 at terminal block on WasteXpress unit or at auger motor connection in control center.
	Auger screen pan is facing back of unit. Processed waste is falling into base of cabinet and exiting at outlet.	Reverse auger screen. See “Auger and Screen Installation” on page 9.

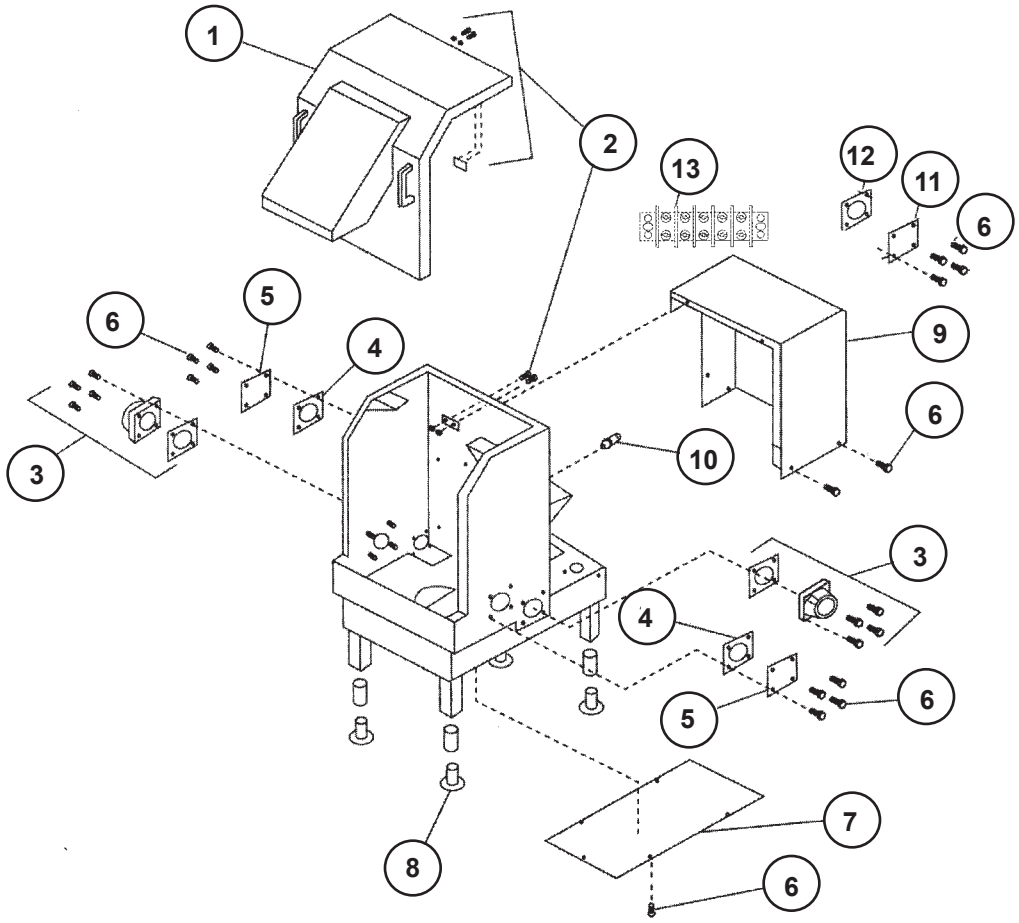
EXPLODED VIEWS & PARTS LISTS

WasteXpress®



Item	Part No.	Description	Qty
1	14655	Bearing Bracket Assembly (Hardware included)	1
1A	14649	Bearing Bracket (Bracket only)	1
2	14427	Auger Paddle Kit (Hardware included)	1
3	14426	Auger Brush Kit	1
4	14401	Auger Assembly (Includes #2 & #3)	1
5	14665	Auger Screen	1
6	14671	Auger Drive Assembly (Hardware included)	1
7	14672	Auger Belt	1
8	14674	Auger Pulley Kit (Hardware included)	1
9	14673	Motor Pulley Kit (Hardware included)	1
10	14666	Auger Motor – 208-230/460V 3 Phase (Hardware included)	1
11	14682	Tube Assembly (Includes #12)	1
12	14683	Spray Nozzle	4

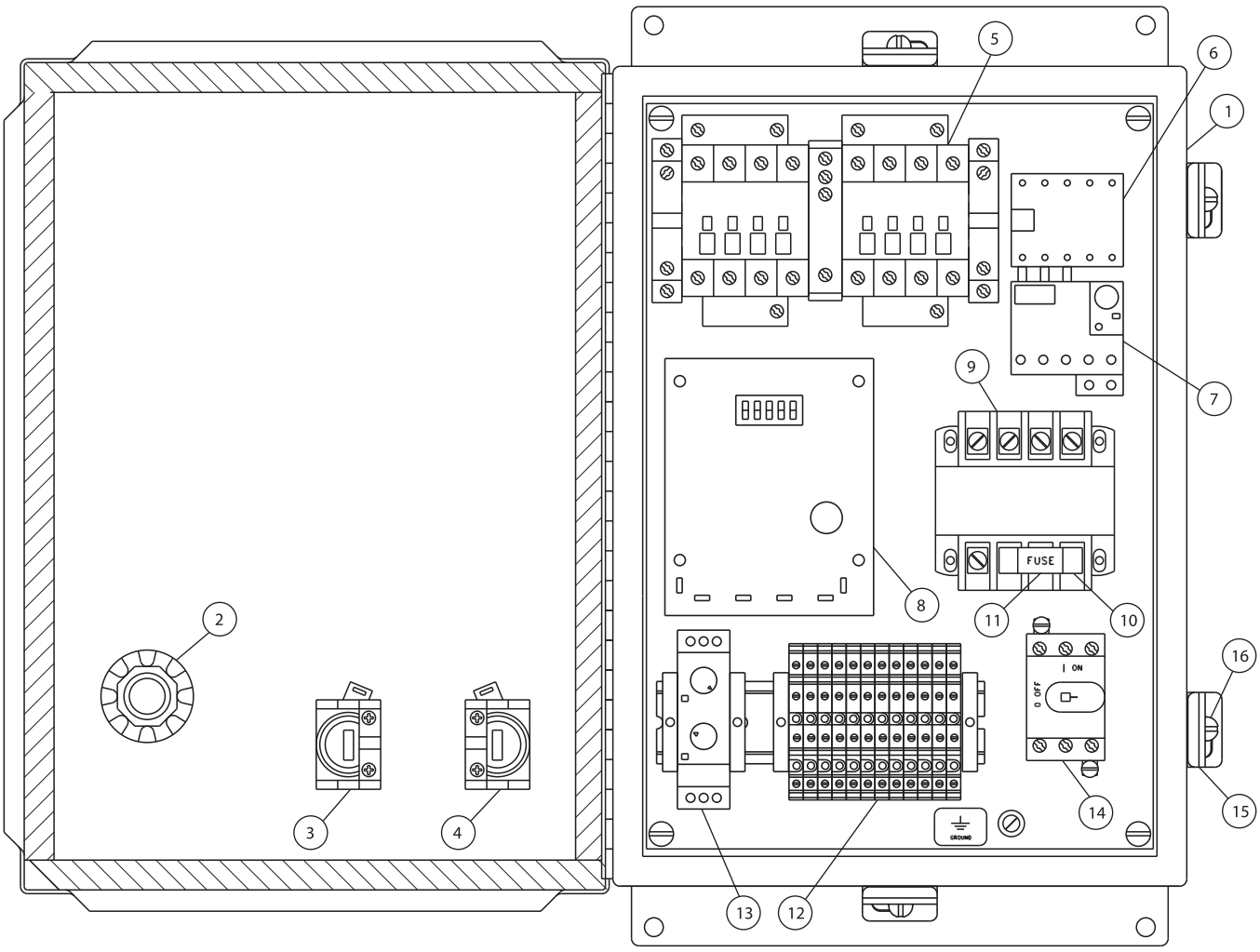
WasteXpress®



Item	Part No.	Description	Qty
1	14678	Discharge Chute	1
2	14668	Interlock Switch Assembly	1
3	14679	Inlet/Outlet Kit	1
4	14681	Inlet/Outlet Gasket	2
5	14680	Inlet/Outlet Cap	2
6	14698	Bolt, ¼-20 x ½" Stainless Steel	25
7	14677	Belt, Cover	1
8	14675	Foot, Adjustable	1
9	14676	Motor Cover	1
10	14697	Strain Relief	1
11	14669	Cover, Terminal Block	1
12	14700	Gasket, Terminal Block Cover	1
13	14670	Terminal Block	

Model No. WX-101A Control Center

15258 WX101A-5 = 208-240 Volt / ½-10 HP / 3 Phase
15258A WX101A-6 = 380-460 Volt / ½-10 HP / 3 Phase



Model No. WX-101A Control Center

Item	Part No.	Description	Qty
1	N/A	Stainless Steel Enclosure	1
2	14707	Knob, Door Disconnect	1
3	14158	Pushbutton Stop (N.C. Red)	1
4	14159	Pushbutton Start (N.O. black)	1
5	14160	Reversing Contactor, 3 Phase	1
6	14113	Contactor	1
7	14106A	Overload, 460V, 3 Phase	1
	14106D	Overload, 208-230V, 3 Phase	1
8	14395	Circuit Board, Printed	1
9	14185	Transformer, 3 Phase	1

Item	Part No.	Description	Qty
10	14165	Fuse Holder	2
11	13466	Fuse (2 Amp) (FNA-2 or FLM-2)	1
12	14480	Terminal Block	3
13	14268	Timer	1
14	14708	Door Disconnect Switch & Shaft	1
15	13935	Retainer, Top Cover	4
16	13942	Screw, Standard	4
	13625	Screw, Tamper proof (optional, not shown)	4
	14494	Solenoid Valve - 24 Volt Coil (not shown)	

Note: 1 - Hot Water; 1 - Cold Water

NOTES

insinkerator

1250 International Drive
Mount Pleasant, WI 53177
www.insinkerator.com/foodservice