# DEXTER
## LAUNDRY

**USE THE BLUE TABS LOCATED ON THE RIGHT AND LEFT SIDES OF THE FOLLOWING DOCUMENT TO ADVANCE TO EACH SECTION.**

![Dexter Laundry logo]

# DEXTER® LAUNDRY

## DC20X2 Models / 24VAC Control
## 20 Pound Stacked Commercial Dryer
### Service and Parts Manual

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## Equipment Safety Warnings
## Symbols and Terminology Used in this Equipment

| Symbol | Description |
|---|---|
| ⚠ **DANGER** | **Indicates an imminently hazardous situation, which if not avoided, will result in death or serious injury.** |
| ⚠ **WARNING** | **Indicates a potentially hazardous situation, which if not avoided could result in death or serious injury.** |
| ⚠ **CAUTION** | **Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. Minor burns, pinch points that result in bruises and minor chemical irritation.** |
| **NOTICE** | **Indicates information or a company policy that relates directly or indirectly to the safety of personnel or protection of property.** |
| ⚠ (caution symbol) | **This is the user caution symbol. It indicates a condition where damage to the equipment resulting in injury to the operator could occur if operational procedures are not followed. TO REDUCE THE RISK OF DAMAGE OR INJURY, refer to accompanying documents; follow all steps or procedures as instructed.** |
| ⚠ (electrical hazard symbol) | **This is the electrical hazard symbol. It indicates that there are DANGEROUS HIGH VOLTAGES PRESENT inside the enclosure of this product. TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, do not attempt to open the enclosure or gain access to areas where you are not instructed to do so. REFER SERVICING TO QUALIFIED SERVICE PERSONEL ONLY** |
| ⚠ (sharp edges symbol) | **Caution! There are sharp edges on various sheet metal parts internal to the enclosure. Use safety consciousness when placing or moving your hands while working in the interior of this equipment.** |
| ⚠ **EX** | **Caution! To reduce the risk of damage to the Water Inlet Valve, do not supply inlet water with a temperature that exceeds 70˚ C.**<br><br>**Caution! To reduce the risk of fire or explosion, do not operate this equipment in any hazardous classified (ATEX) environment.** |

# Equipment Safety Warnings Symbols and Terminology Used in this Equipment

Warning! Do not operate equipment if door glass is damaged in any way.

Warning! Keep clear of rotating parts.

Prohibited! Do not enter this equipment or space.

Prohibited! Do not step or stand on this equipment.

Prohibited! Do not operate without all guards and covers in place.

Prohibited! Do not operate without all guards and covers in place.

Prohibited! Do not wash or Dry clothing impregnated with flammable liquids (petrochemical).

Prohibited! Do not allow children to play in or around equipment.

| | |
|---|---|
| ⚠ DANGER | Indicates an imminently hazardous situation, which if not avoided, will result in death or serious injury. |
| ⚠ WARNING | Indicates a potentially hazardous situation, which if not avoided could result in death or serious injury. |
| ⚠ CAUTION | Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. Minor burns, pinch points that result in bruises and minor chemical irritation. |
| NOTICE | Indicates information or a company policy that relates directly or indirectly to the safety of personnel or protection of property. |
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| ⚡ | This is the electrical hazard symbol. It indicates that there are DANGEROUS HIGH VOLTAGES PRESENT inside the enclosure of this product. TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, do not attempt to open the enclosure or gain access to areas where you are not instructed to do so. REFER SERVICING TO QUALIFIED SERVICE PERSONEL ONLY |
| EX | Caution! To reduce the risk of fire or explosion, do not operate this equipment in any hazardous classified (ATEX) environment. |

# ⚠ WARNING

| | |
|---|---|
| 🚫✋ | • All Dryers must be installed in accordance to all applicable electrical, plumbing and all other local codes.<br><br>• These installation and operation instructions are for use by qualified personnel only. To avoid injury and electrical shock, do not perform any servicing other than that contained in the installation and operation instructions, unless qualified. |
| ⚠ EX | Do not install Equipment in an explosive atmosphere. |
| ⚠ | •Care must be stressed with all foundation work to ensure a stable unit installation, eliminating    possibilities of excessive vibration.<br><br>•Foundation must be level within 13 mm to ensure proper washer   operation. |
| ⚠ | Do not operate washer or Dryer if door glass is damaged in any way. |
| 🚫🔥 | Do not wash or Dry clothing impregnated with flammable liquids (petrochemical). |

# ⚠ WARNING

| | |
|---|---|
| 🚫🏃 👪 | Children should be supervised to ensure they do not operate or play in or around equipment. |
| 🚫⚙ | Keep all panels in place to protect against electrical shock and injury and add rigidity to washer. |

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

A washer should not be allowed to operate if any of the following occur:
- Excessive high water level.
- Machine is not connected to a properly earthed circuit.
- Door does not remain securely locked during the entire cycle.
- Vibration or shaking from an inadequate mounting or foundation

| | |
|---|---|
| | **Warning! Do not operate equipment if door glass is damaged in any way.** |
| | **Warning! Keep clear of rotating parts.** |
| | **Prohibited! Do not enter this equipment or space.** |
| | **Prohibited! Do not step or stand on this equipment.** |
| | **Prohibited! Do not operate without all guards and covers in place.** |
| | **Prohibited! Do not operate without all guards and covers in place.** |
| | **Prohibited! Do not wash or Dry clothing impregnated with flammable liquids (petrochemical).** |
| | **Prohibited! Do not allow children to play in or around equipment.** |

| | |
|---|---|
| | **Prohibited! Do not attempt to open, touch, or proceed before referring to the manual or unless qualified.** |
| | **Mandatory! Read all supporting documentation before operating or maintaining equipment.** |
| | **Mandatory! Disconnect power before servicing equipment.** |
| | **Mandatory! Lock out and tag out  before servicing this equipment.** |
| | **Mandatory! Children should be supervised to ensure they do not  operate equipment.** |

# Notes

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# Dexter Safety Guidelines

## ！ WARNING

**For your safety, the information in this manual must be followed to minimize the risk of fire or explosion or to prevent property damage, personal injury or loss of life.**

### IF YOU SMELL GAS:

• Do not try to light any appliance.

• Do not touch any electrical switch: do not use any telephone in your building.

• Clear the room, building or area of all occupants.

• Imm.ediately call your gas supplier from a neighbor's telephone.

• Follow the gas supplier's instructions.

• If you cannot reach your gas supplier, call the fire department. Installation and service must be performed by a qualified installer, service agency or the gas supplier.

**Dry only fabrics washed in water to avoid the risk of fire, including spontaneous combustions, do not dry:**

• Items containing foam rubber, or any similarly textured rubber-like materials.

• Any items on which you have used a cleaning solvent or which contain flamm. able liquids or solids, such as naptha, gasoline, or other oils or waxes.

_To activate your warranty, be sure to return your red warranty form to the factory. Please have serial number and model ready when calling for assistance._

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Maintenance

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# Section 1:

## Specifications

# T-20X2 EXPRESS STACK DRYER SPECIFICATIONS

**DC20X2NC-15 (60 Hz), DC20X2NC-39 (50 Hz)**

**Capacity:**

| | | |
|---|---|---|
| Dry Weight Capacity - lb (kg) | 2 x 20 | (2 x 9.1) |
| Cylinder Volume (per tumbler) - cu ft (L) | 7 | (198.2) |

**Speed:**

| | | |
|---|---|---|
| Tumbler Speed - RPM | 51 | - - - |
| Motor Size (per tumbler) - hp (kW) | 0.3 | (0.25) |

**Airflow (per tumbler):**

| | | |
|---|---|---|
| 60 Hz Model - cfm (M3/min) | 370 | (10.5) |
| 50 Hz Model - cfm (M3/min) | 300 | (8.5) |

**Dimensions:**

| | | | |
|---|---|---|---|
| Cabinet Height - in (cm) | 68 1/2 | (174) | |
| Cabinet Width - in (cm) | 27 | (68.6) | |
| Cabinet Depth - in (cm) | 44 5/8 | (113.3) | |
| Door Opening - in (cm) | 18 1/8 | (46) | Floor to |
| Lower Door Bottom - in (cm) | 8 1/2 | (21.6) | |
| Floor to Upper Door Bottom - in (cm) | 42 | (106.7) | |
| Cylinder Diameter - in (cm) | 25 1/2 | (64.8) | |
| Cylinder Depth - in (cm) | 24 | (61) | |
| Lint Screen Area (per tumbler) - sq in (sq cm) | | 285 | (1839) |

**Weight:**

| | | |
|---|---|---|
| Net Weight - lb (kg) | 615 | (279) |

**Shipping Information:**

| | | |
|---|---|---|
| Shipping Weight - lb (kg) | 650 | (295) |
| Shipping Height - in (cm) | 74 | (188) |
| Shipping Width - in (cm) | 31.5 | (80) |
| Shipping Depth - in (cm) | 49 | (124.5) |

## Gas Requirements (Gas Models Only):

| | | |
|---|---|---|
| Gas Supply Connection - in (mm) | 1/2 | (12.7) |
| Natural Gas Supply (Water Column) - in (cm) | 5-8 | (12.7 - 20.3) |
| LP Gas Supply (Water Column) - in (cm) | 11 1/2 - 14 | (29.2 - 35.6) |

## Gas Usage (Gas Models Only):

| | | |
|---|---|---|
| 60Hz Model (per tumbler) - BTU/hr (kW) | 56,000 | (16.4) |
| 50Hz Model (per tumbler) - BTU/hr (kW) | 47,000 | (13.8) |

## Electrical Requirements:

### Gas Models (per stack dryer):

| Model | Volts / Hz / Phase / Wiring | Circuit Breaker Amps / Running Amps / Wire Size |
|---|---|---|
| -15 | 208-240 / 60 / 1 / 2 wire + ground | 15 / 3.8 / #12 |
| -15 | 120 / 60 / 1 / 2 wire + ground | 15 / 7.8 / #12 |
| -39 | 230 / 50 / 1 / 2 wire + ground | 15 / 6.6 / 3.5 mm$^2$ |

### Electric Models (per tumbler):

| Model | kW / Volts / Hz / Phase / Wiring | Circuit Breaker Amps / Running Amps / Wire Size |
|---|---|---|
| -82 | 15 / 400 / 50 / 3 / 4 wire + ground | 30 / 30 / 8.4 mm$^2$ |

## Installation Recommendations:

| | | |
|---|---|---|
| Minimum Clearance Between Machines - in (cm) | 0 | (0) |
| Minimum Clearance Behind Machines - in (cm) | 18 | (45.7) |
| Make-Up Air Required (per stack dryer) - sq ft (sq cm) | 1 | (929) |
| Exhaust Size - in (cm) | 8 | (20.3) |
| Max. Exhaust Back Pressure (Water Column) - in (mm) | 0.3 | (7.6) |
| Recommended Exhaust Length - ft (m) & 2 elbows | 14 | (4.3) |

# Dexter T20x2 Stack Dryer
# Installation Dimensions
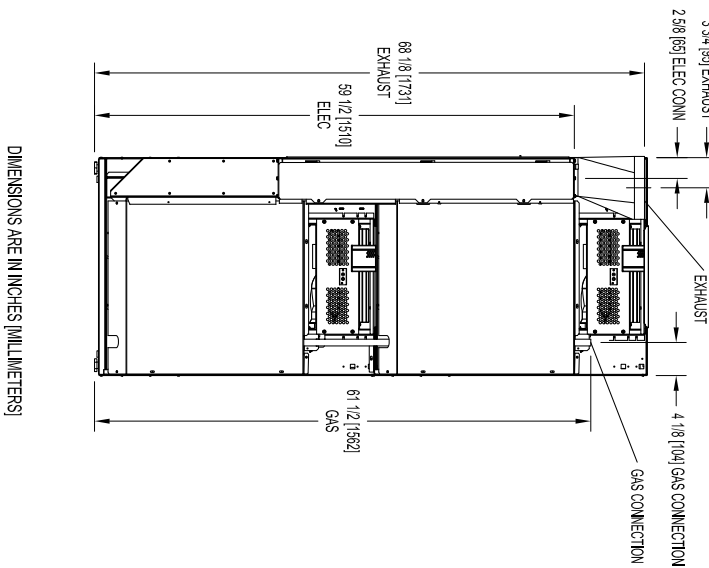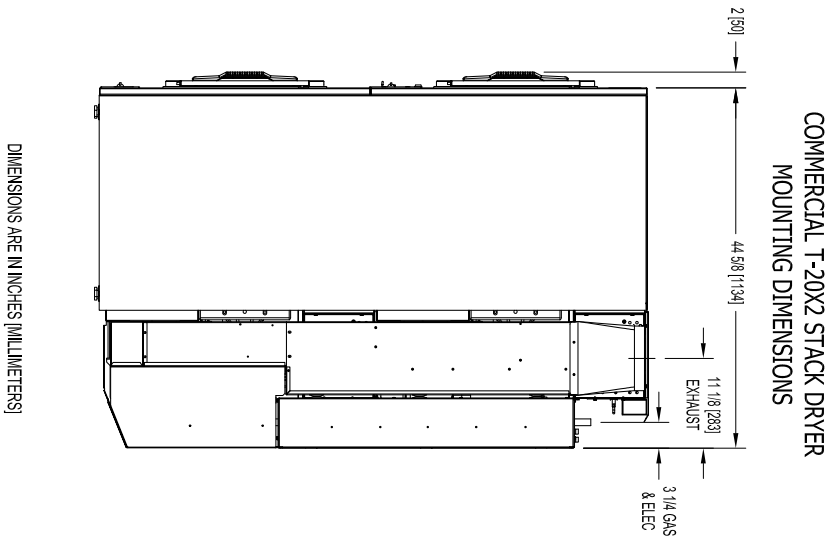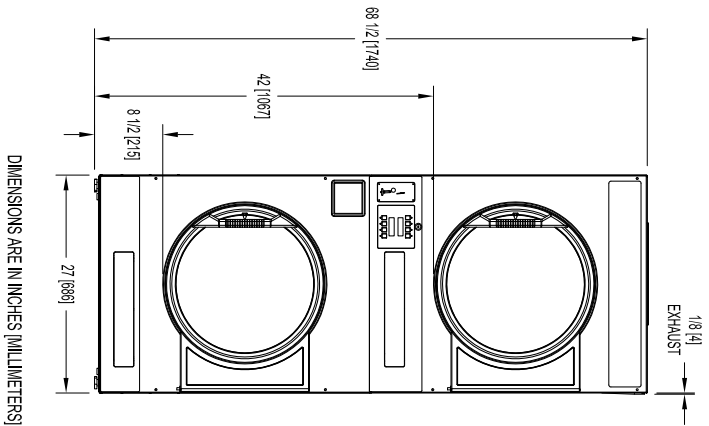
# Section 2:

## Installation & Operation

## DRYER INSTALLATION

**1. CODE CONFORMITY:** All commercial dryer installations must conform with local codes, or in the absence of local codes, with the latest edition of the National Fuel Gas Code ANSI Z223.1. Canadian installations must comply with the current Standard CAN/CGA-B149 (.1 or .2) Installation Code for Gas Burning Appliances or Equipment, and local codes if applicable. Australian installations must meet installation requirements and pipe sizing require ments   of AS/NZA 5601. The appliance, when installed, must be electrically grounded in accordance with the latest edition of the National Electric Code, ANSI/NFPA70, or, when installed in Canada, with Standard   CSA C22.1 Canadian Electrical Code Part 1.

**2. INSTALLATION CLEARANCES:** This unit may be installed at the following alcove clearances:
I.      Left Side 0"
II.     Right Side 0"
III.    Back 18" (457 mm) (Certified for 6" (150 mm) clearance; however, 18" (457 mm) clearance is necessary behind the motors to allow servicing and maintenance.)
IV.     Front 48" (1220 mm) (to allow use of dryer)
V.      Top Refer to figure labeled "Vertical Clearance Dimensions".
        AB. Certification allows 0" clearance at the top 4" (100 mm) back from the front. However, a 1/4" (6 mm) clearance should be allowed in case the dryer needs moving.
        C. A 10" (250 mm) clearance is required from top at all other points.
VI.     Floor This unit may be installed upon a combustible floor.

Do not obstruct the flow of combustion and ventilation air.
Maintain minimum of 1" (25 mm) clearance between duct and combustible material.
Refer to the label attached to the Belt Guard on the rear of the dryer for other installation information and start-up instructions.
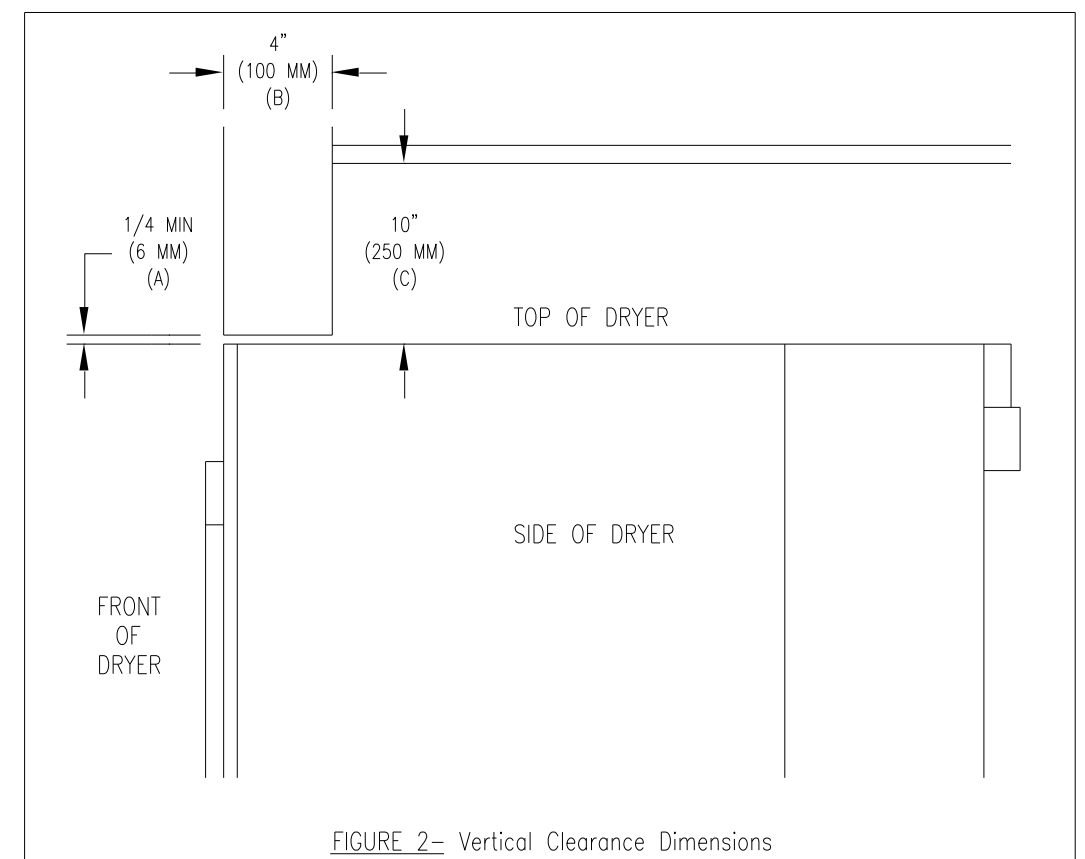


FIGURE 2– Vertical Clearance Dimensions

**3. MAKE-UP AIR:** Adequate make-up air must be supplied to replace air exhausted by dryers on all types of installations. Refer to specifications for the minimum amount of make-up air opening to outside for each dryer. This is a net requirement of effective area. Screens, grills or louvers, which will restrict the flow of air, must be considered. Consult the supplier to determine the free area equivalent for the grill being used. The source of make-up air should be located sufficiently away from the dryers to allow an even airflow to the air intakes of all dryers. Multiple openings should be provided.

The sources of all make-up air and room ventilation air movement to all dryers must be located away from any dry cleaners. This is necessary so that solvent vapors will not be drawn into the dryer inlet ducts. Dry cleaner solvent vapors will decompose in contact with open flame such as the gas flame present in clothes dryers. The decomposition products are highly corrosive and will cause damage to the dryer(s) ducts and clothes loads.

**4. ELECTRICAL REQUIREMENTS.** The electrical power requirements necessary to operate the unit satisfactorily are listed on the serial plate located on the back panel of each dryer and in the specifications section of this manual. The electrical connection should be made to the terminal board, on the rear of the unit. It is absolutely necessary that the dryer be grounded to a known ground. Individual circuit breakers for each stacked dryer are required. Dryer -65 models are adjusted for 120V as shipped. They can be converted to 208-240V (neutral required) as required. Instructions for this conversion are located at this end of this manual.

**5. GAS REQUIREMENTS.** The complete gas requirements necessary to operate the dryer satisfactorily are listed on the serial plate located on the back panel of the dryer and in the specifications section of this manual. The inlet gas connection to the unit is 1/2-inch pipe thread. However, the size of the piping to supply the dryer should be determined by reference to the National Fuel Gas Code ANSI Z223.1A and consultation with the local gas supplier. An individual gas shutoff valve is recommended for each dryer and may be required by local code (not supplied). A joint compound resistant to the action of liquefied petroleum gases should be employed in making pipeconnections. A 1/8-inch NPT plugged tapping, accessible for test gage connection, must be installed immediately upstream of the gas supply connection to the dryer. A drip tee is provided in the unit gas piping to catch dirt and other foreign articles. All pipe connections should be checked for leakage with soap solution. Never check with an open flame. For altitudes above 2,000 feet (610m), it is necessary to derate the BTU input. Contact your local distributor for instructions. L.P. gas conversion kits are available for this dryer. Contact your local distributor.
**CAUTION:** The dryer must be disconnected from the gas supply piping system during any pressure testing of that system. Do not expose the dryer's gas control valve to testing pressure.

### Burner Set-Up

All natural gas burner manifolds should be checked for proper gas pressure while burning. Stack dryer burners should be set at 3.5 W.C. while burner operating.

**6. EXHAUST INSTALLATION**. (Refer to Figure 3) Exhausting of the dryer(s) should be planned and constructed so that no air restrictions occur. Any restriction due to pipe size or type of installation can cause slow drying time, excessive heat, and lint in the room.
From an operational standpoint, incorrect or inadequate exhausting can cause a cycling of the high limit thermostat, which shuts off the main burners and results in inefficient drying.

The exhaust duct connection near the top of the dryer will accept an 8" (200 mm) round duct. Individual exhausting of the dryers is recommended. All heat, moisture, and lint should be exhausted outside by attaching a pipe of the proper diameter to the dryer adapter collars and extending it out through an outside wall. This pipe must be very smooth on the inside, as rough surfaces tend to collect lint, which will eventually clog the duct and prevent the dryer from exhausting properly. All elbows must be smooth on the inside. All joints must be made so the exhaust end of one pipe is inside the next one downstream. The addition of an exhaust pipe tends to reduce the amount of air the blower can exhaust. This does not affect the dryer operation if held within practical limits. For the most efficient operation, it is recommended that no more than 14 ft. (4.25 m) of straight 8 in. diameter pipe with two right angle elbows be used for each cylinder.

Maintain a minimum of 1" (25mm) clearance between duct and combustible material.

If the exhaust pipe passes through a wall, a metal sleeve of slightly larger diameter should be set in the wall and the exhaust pipe passed through this sleeve. This practice is required by some local codes and is recommended in all cases to protect the wall.

This type of installation should have a means provided to prevent rain and high winds from entering the exhaust when the dryer is not in use. A hood with a hinged damper can be used for this purpose. Another method would be to point the outlet end of the pipe downward to prevent entrance of wind and rain. In either case, the outlet should be kept clear, by at least 24 in. (610 mm) of any objects, which would cause air restriction.

Never install a protective screen over the exhaust outlet.

When exhausting a dryer straight up through a roof, the overall length of the duct has the same limits as exhausting through a wall. A rain cap must be placed on top of the exhaust and must be of such a type as to be free from clogging. The type using a cone shaped "roof" over the pipe is suitable for this application.

Exhausting the dryer into a chimney or under a building is not permitted. In either case there is a danger of lint buildup, which can be highly combustible.

Installation of several dryers, where a main discharge duct is necessary, will need the following considerations for installation (see Figure 3). Individual 8" (200 mm) exhaust ducts from each dryer should enter main discharge duct at a 45-degree angle in the direction of discharge airflow.

**NOTE:** Never install the individual ducts at a right angle into the main discharge duct. The individual ducts from the dryers can enter at the sides or bottom of the main discharge duct. Figure 3 indicates the various round main duct diameters to use with the individual dryer ducts. The main duct can be rectangular or round, provided adequate airflow is maintained. The total exhausting (main discharge duct plus duct outlet from the dryer) should not exceed the equivalent of 14 ft. (4.25 m) and two elbows. The diameter of the main discharge duct at the last dryer must be maintained to exhaust end.

**NOTE:** STATIC BACK PRESSURE should be a maximum of 0.3 in. w.c (7.6 mm w.c) at the rear exhaust outlet of the dryer. If multiple dryers are connected to the common duct, ensure the back draft damper is installed properly.
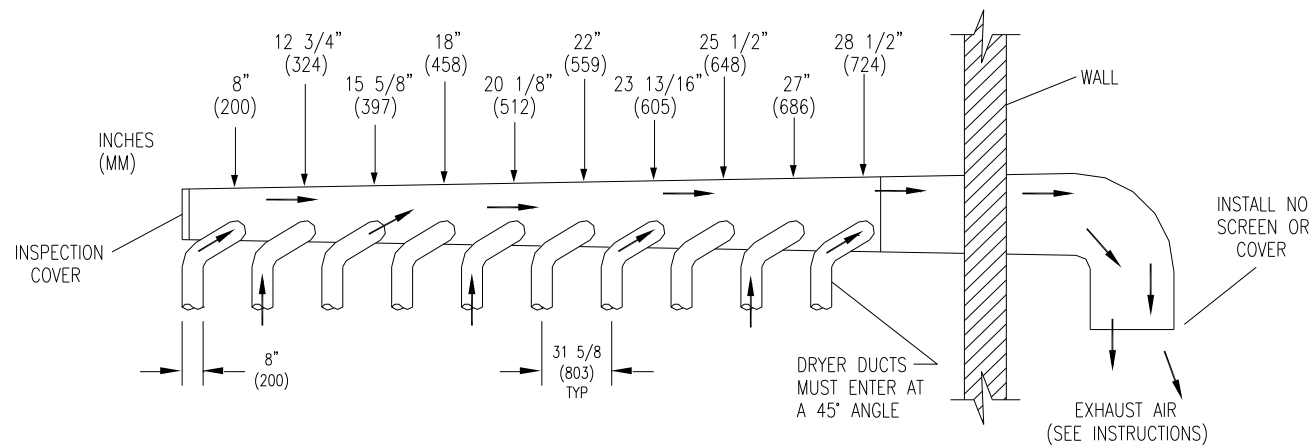
**NOTE:** A small diameter duct will restrict airflow; a large diameter duct will reduce air velocity - both contributing to lint build up. An inspection door should be provided for periodic clean out of the main duct.

**7. DRYER IGNITION (SOLID STATE IGNITION):** The solid-state ignition system lights the main burner gas by spark. The gas is ignited and burns only when the gas-relay (in the electronic controller) calls for heat. The procedure for first-time starting of a dryer is as follows.

    I.    First review and comply with the "Warnings About Use and Operation" found on the inside front cover of this manual. Be sure electrical power is connected correctly. The dryer must be properly grounded.

    II.    Make sure all gas supply lines are purged of air. Close the main gas shut-off valve and wait for five minutes before turning it back on.

    III.    Turn on the main electrical power switch. The dryer may be started by following the "Operating Instructions" found later in this manual.

    IV.    Natural gas and LPG fired dryers operate in the same manner. When the gas valve relay contacts are closed (indicating a demand for heat), the solid-state ignition control will automatically supply energy to the redundant gas valve. Sparking will continue until a flame is detected by the sensing probe, but not longer than ten seconds. If the gas fails to ignite in 10 seconds, the gas valve closes and the gas system pauses to allow gas to purge from the inside of the dryer. After the pause, the ignition control repeats the ignition trial cycle twice more. If the gas system fails to detect ignition after the three attempts, the system will "lock out". No further attempts will be performed automatically. To reset the ignition control electrical power to the ignition control must be interrupted. This can be done by opening the dryer door (stopping the dryer) for 15 seconds. Closing the door and pushing the "Start" button will repeat the ignition trial cycle.

**8. MAIN BURNER ADJUSTMENT.** The primary air shutter of each main burner must be properly adjusted for the correct air-gas ratio. Loosen the shutter locking screw. Adjust the shutter by closing it sufficiently to give a blue flame with a yellow tip. Next open the shutter until the yellow tips are at a minimum. After adjustment securely lock each shutter in position by tightening the shutter locking screws.

**9. DRYER SHUTDOWN.** To render the dryer inoperative, turn off the main gas shut off valve and disconnect the electrical supply to the dryer.
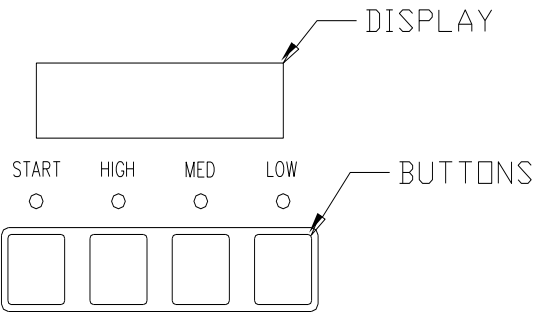


Both dryers are operated by the controller at the left midpoint of the dryer. The controller is two-in-one with the upper display and lights dedicated to the upper dryer and lower display and lights dedicated to the lower dryer.

When money has been deposited, the control will prompt the user to choose a drying temperature and press the "start" button. Time is not added until this occurs for either the upper or lower dryer. If no purchased time is available on the control, the vend price is displayed.

The drying program (temperature) selected by the user is indicated by the red lights at the top and bottom. When the dryer is in use, the drying temperature may be displayed by simultaneously pressing the "start" button and the button of the temperature selected.

<div align="center">

**OPERATING INSTRUCTIONS**

</div>

**STARTING THE DRYER**

    1.    Load clothes into either the upper or lower dryer (or both). Close the door(s) completely.

    2.    Deposit coins equal to or greater than the displayed vend price. The control will prompt the user to choose a drying temperature. Time is not added until this occurs for either the upper or lower dryer.

    3.    Select drying temperature by pressing the appropriate button for the dryer to be used. This will turn on the red light showing the selected temperature.

    4.    Press "start" button to start dryer. This will display the drying time purchased.

**RUNNING THE DRYER**

-Opening the door will stop the dryer. The dryer will restart, if time has not expired, upon closing the door and pressing the "start" button.

-Selected temperature may be changed at any time (unless Temperature Pricing feature is activated).

-Running time may be extended by depositing coins and pressing the "start" button for the correct dryer. Unless time has expired, the controller will accept coins whether or not the original vend price is equaled.

If time has run out, the dryer must be restarted as if it was at the beginning of drying the load, which requires meeting or exceeding the vend price.

## TRANSIENT VOLTAGE SURGE SUPPRESSORS

Like most electrical equipment your new machine can be damaged or have its life shortened by voltage surges due to lightning strikes which are not covered by factory warranty. Local power distribution problems also can be detrimental to the life of electrical components. We recommend the installation of transient voltage surge suppressors for your new equipment. These devices may be placed at the power supply panel for the complete installation and don't require and individual device for each machine.

These surge protectors help to protect equipment from large spikes and also from small ongoing spikes in the power that occur on a day to day basis. These smaller surges can shorten overall life of electrical components of all types and cause their failure at a later date. Although they can't protect against all events, these protective devices have a good reputation for significantly lengthening the useful life of electronic components.

Electronic Components are helped to have a longer useful life when they are supplied with the clean stable electrical power they like.

We are including the following names and links to a few suppliers of these devices for those who don't currently have a source.

| MANUFACTURER | LINK |
| --- | --- |
| MCG Surge Protection | mcgsurge.com |
| Eaton Corporation | eaton.com/us/en-us |
| Schneider Electric | se.com/us/en |
| Asco Power Technolgies | ascopower.com/us/en |
| Emerson Electric Co. | emerson.com/en-us |

# Notes

# Section 3:

Programing
C-Series
Stack Dryer

**DexterLive**

The new DexterLive controls were created for you to be able to interface easier with your equipment and create variable pricing cycles to increase your profitibility in the same floor space.

First, log into DexterLive, create your location and equipment list and then create your cycle and pricing information by the particular type of washer and dryer at the location. Once the information is saved, download the "AllUser.xml" file to a USB device which will be used to program the machines from the USB port.

Keep it simple or use the marketing features such as temperture pricing, plus cycle or an additional final rinse that the customer can select for a value added wash. Utilize time of day pricing to help move people from heavy use periods to special value times of day or days of the week.

Through the easy to use USB programing so you can download all special pricing and cycles from DexterLive to set up your store quickly and easily.

**Accessible**
Available anytime, anywhere, on any internet capable device. Once you have set up your free account all of your custom settings and store information are saved making it quick and easy to make future changes.

**Simple**
View and customize equipment settings to fit your business model. Download your unique user file and quickly transfer it to your equipment via USB.

**Profitable**
Create exciting promotions to attract new customers. Offer extra prewash, plus cycles, Extra rinse and temperature pricing to drive more revenue in your store.

## First Time Creating an Account at Dexter Live

**1)** Log into DexterLive
At the bottom, select "Create your DexterLive account."
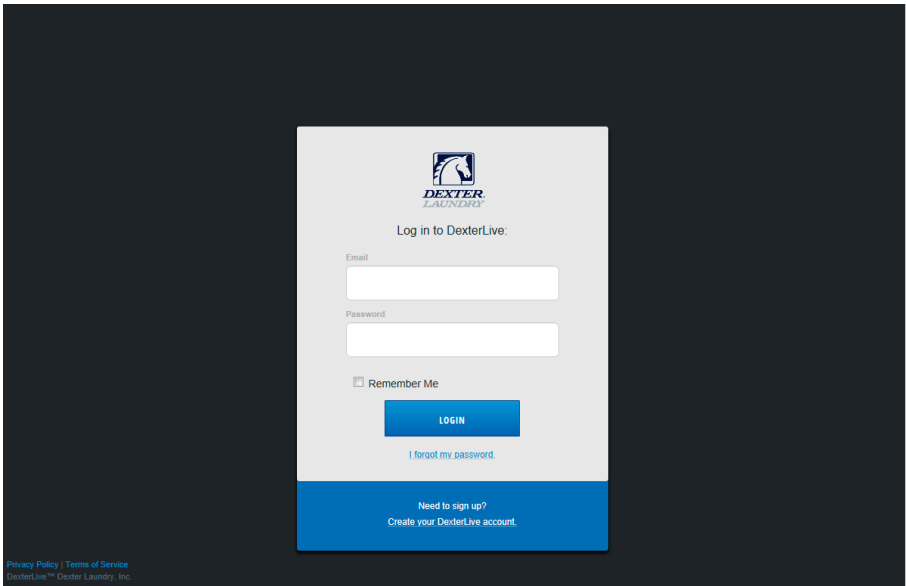


DexterLive gives an owner the ability to manage multiple locations.

**2)** At the "Create a DexterLive Account" screen.
**A.** First time users must create an account.
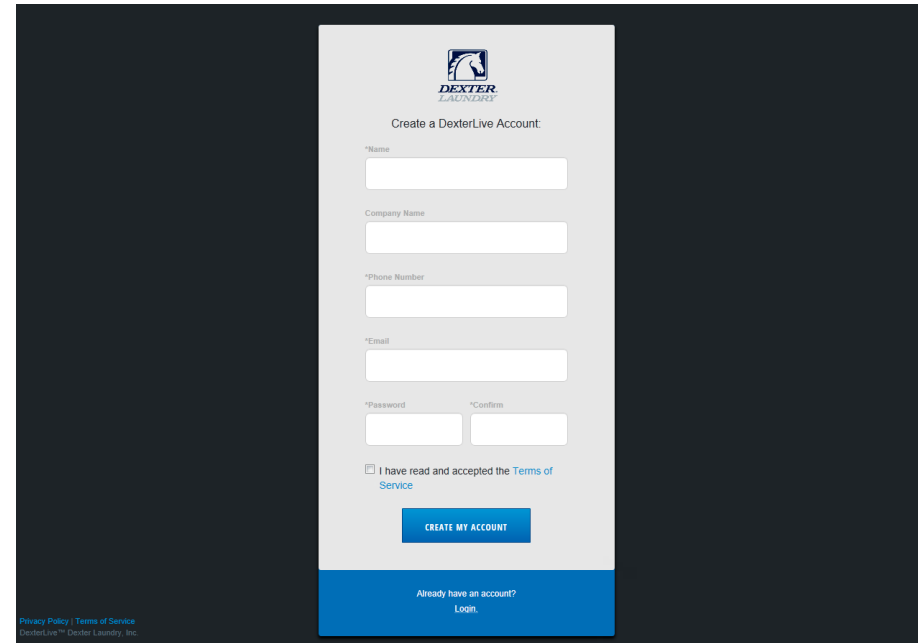


An account must be created to use the DexterLive features.

**B.** Fill in the required fields and click on "Create My Account".
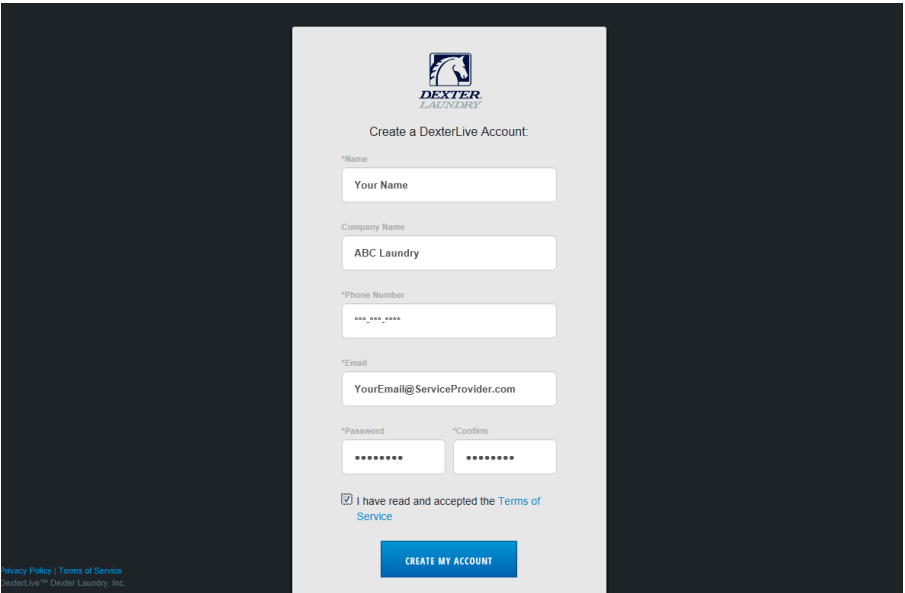


When creating a new user account make sure to fill in all fields marked with asterisks and check the "Terms of Service" box.

**C.** After selecting to "Create My Account", you will see the log in screen advising you to go to your e-mail and activate your account.
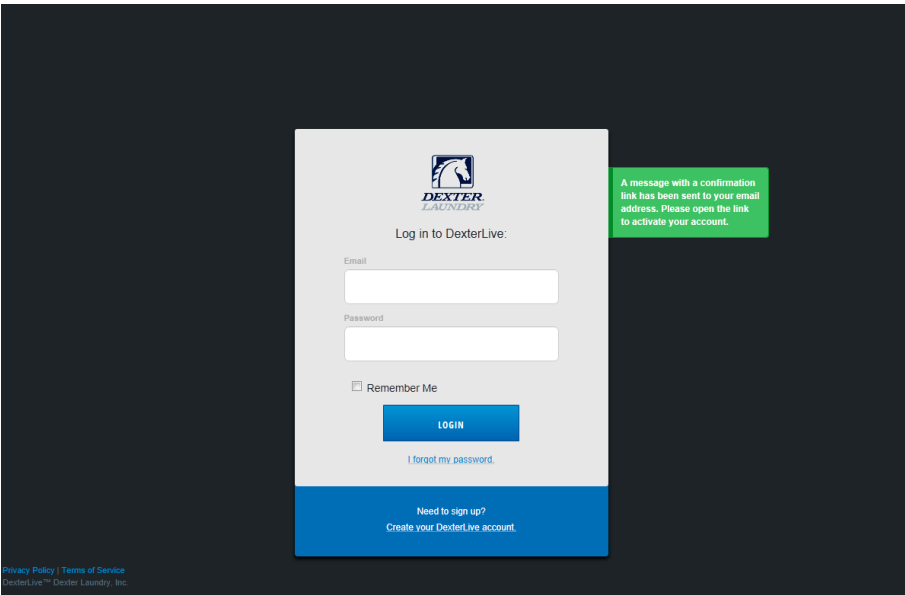


After creating your account you will need to use the e-mail link to gain first access. The account will not be active until you confirm your account.

**3)** Open the e-mail sent from Dexterlive and select "CONFIRM MY ACCOUNT"
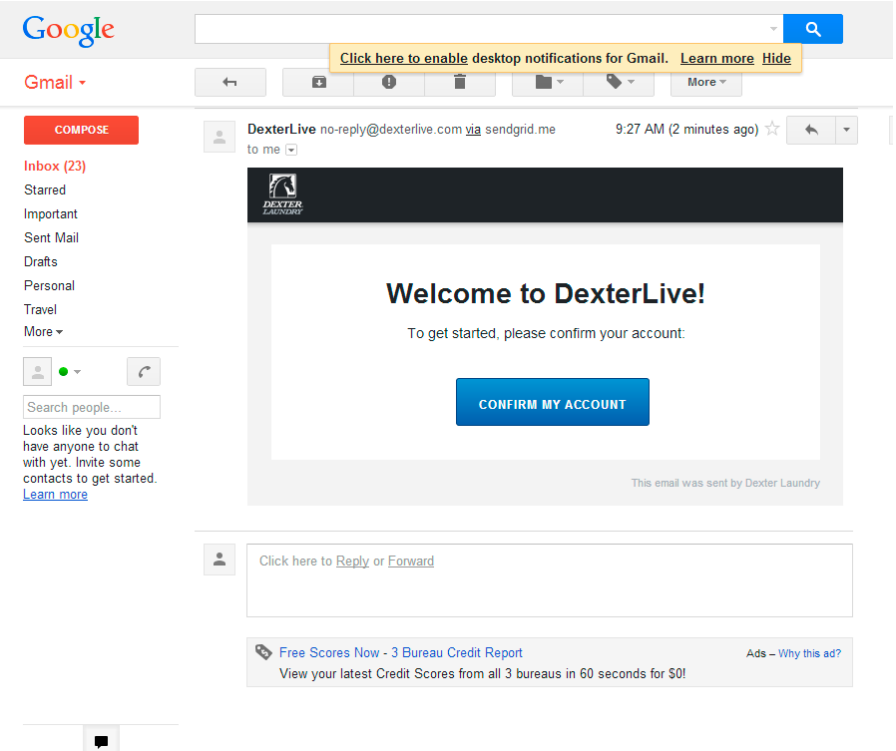


Selecting the "Confirm My Account" hyperlink will take you back to the DexterLive log in page.

**4)** At the "Log into DexterLive" screen, enter your e-mail/user name and password to access DexterLive.
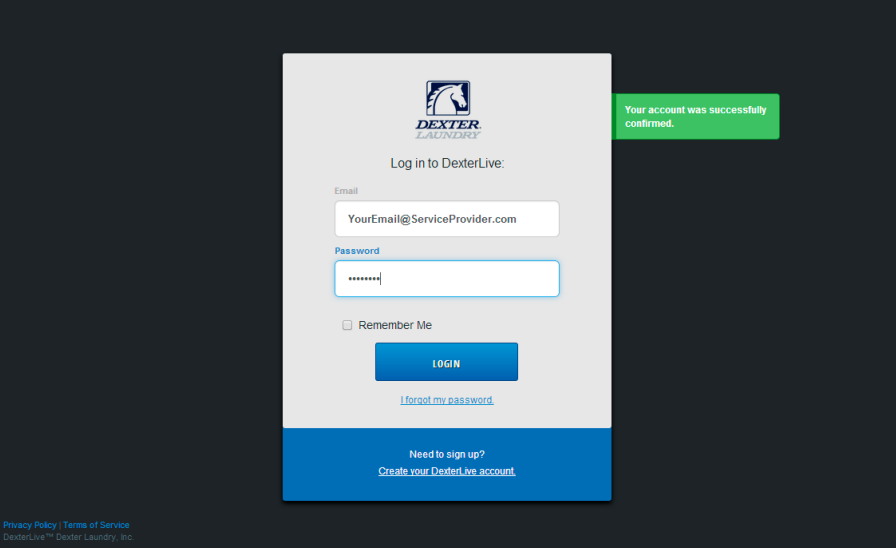


Welcome to DexterLive. Proceed to the step to create your location information.

## Programming

**5)** To configure your settings with DexterLive.com:
   **A.** Add or select a location to program.
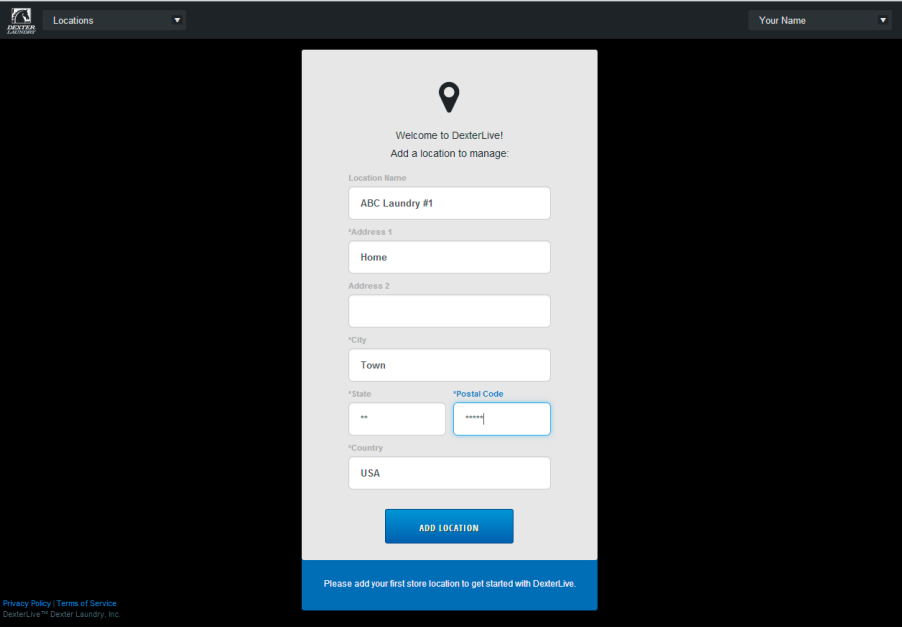


DexterLive gives an owner the ability to manage multiple locations and machines.

**B.** On the left side of the screen, select the "Programming" tab.
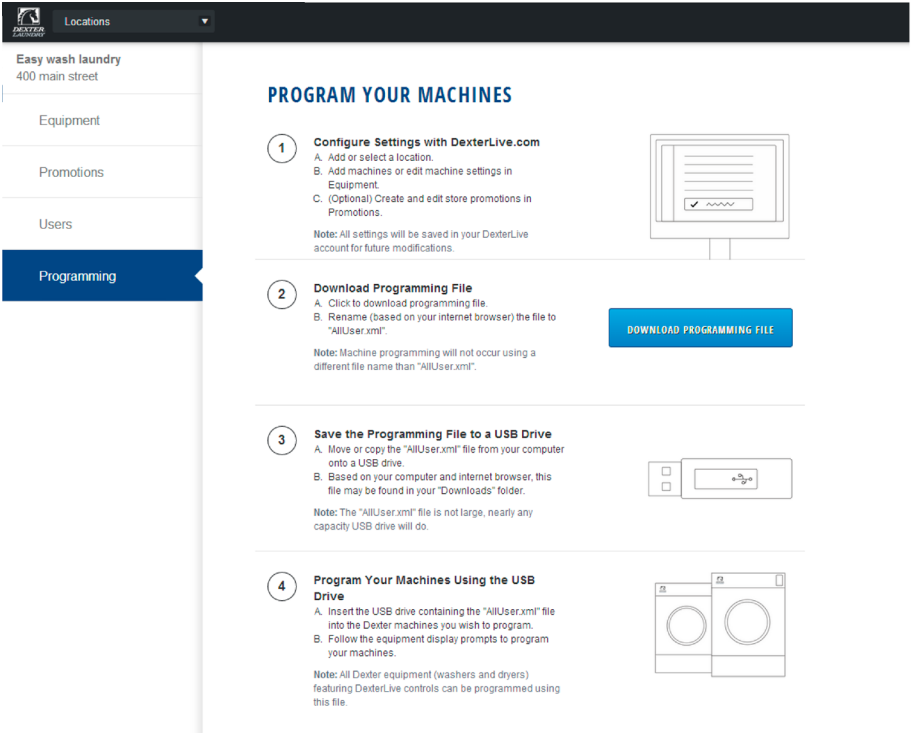


Follow instructions in the programming tab.

**C.** Edit the "General Settings" (Equipment Tab)



General Settings - All Machine Types

| | | |
|---|---|---|
| Washers and Dryers | Machine Display Language | English |
| | Display Decimal Point | On |
| | Sounds | On |
| | Password | 0000 |
| | Time Shift | +0 hours : 0 minutes |
| Washers Only | Drive Table | Current |
| Dryers Only | Display Temperature Scale | °F |
| | Display Time | Minutes only displayed |
| | Central Pay | Off |

Cancel    Save

Adjust setting and offset time to match your location.
(Time is set for Central Standard Time)

**D.** Next select the "+Add Equipment" (Equipment Tab), located in the upper right hand corner.



EQUIPMENT

General Settings    + Add Equipment

T-350 Express Washer
6 units at this location

Add Machine
My Machine Name
D1
Serial Number
D2.14076.006
Machine Type
T-30X2 Stack Dryer
DexterLive ID

SAVE & CONTINUE

Done adding machines

Name of the machine.
(Example: Dryer 1)
Enter serial number and machine type then select "Save and Continue."

**E.** When all of the equipment has been added, select "Edit" on the machine type you wish to modify, and then select "Pricing".  (Equipment Tab and Machine Settings Tab)



T-350 EXPRESS WASHER

Pricing    Cycles

| | | |
|---|---|---|
| Pricing | Base Vend Price | 3.50 |
| Adders | Warm Temp Adder | 0.25 |
| | Hot Temp Adder | 0.50 |
| | Pre-Wash Adder | FREE |
| | Extend Wash Adder | 0.25 |
| | Extra Rinse Adder | FREE |
| Promotional Pricing | Base Vend Price (B) | 3.00 |
| | Base Vend Price (C) | 3.50 |
| Coin Values | Left Coin Value | 0.25 |
| | Right Coin Value | 1.00 |

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Cancel    Save for all T-350s

Program the price of the machine and the extra pricing adders.

**F.** Cycle changes can be made by selecting the "Cycles" tab.



T-350 EXPRESS WASHER

Pricing    Cycles

| Cycle | | Time | Temp | Spin |
|---|---|---|---|---|
| | Pre-Wash | Off | Cold | Off |
| | Wash | 9 min | Warm | Off |
| | Extended Wash | 1 min | | |
| | Rinse | 4 min | Cold | 1 min |
| | Final Rinse | 5 min | Cold | 6 min |
| | Extra Rinse | Off | Cold | Off |
| Extract Speed | Final Spin Speed | 200G | | |
| Options | Delay Fill | Off | | |
| | Delay Spin | Off | | |

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Cancel    Save for all T-350s

Adjust cycle programming set the length of time and extracts speed as needed.

**G.** If desired, you may create and edit optional store promotions from the "Promotions "Tab.
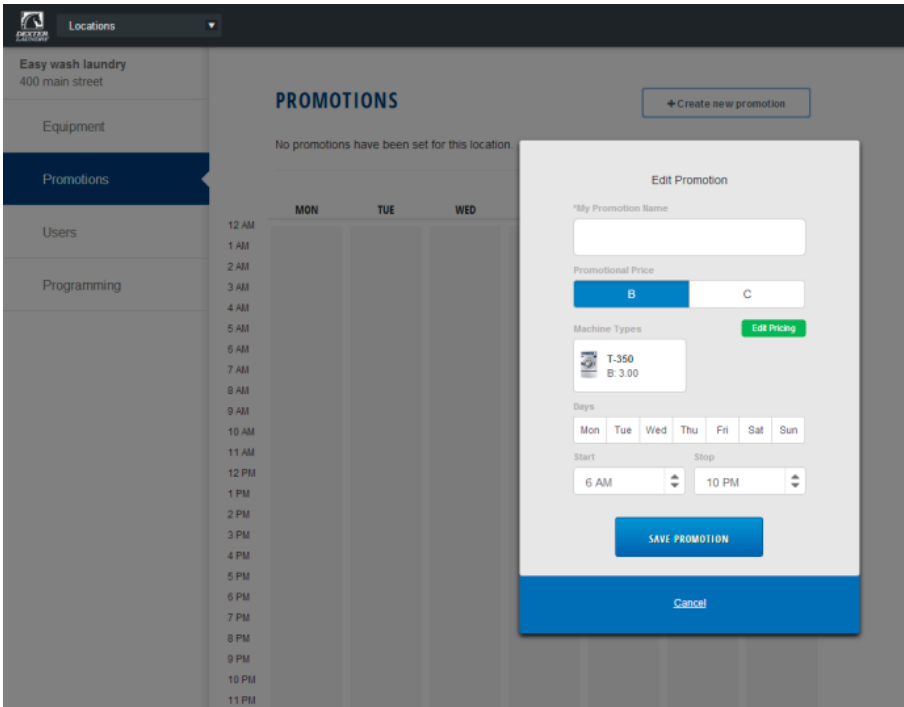


Select "Save Promotion" once your changes have been made.

**6)** Create and download the Programming File.

**A.** Once all preferred prices, cycles and promotions have been modified and saved, select **"DOWNLOAD PROGRAMMING FILE"**.
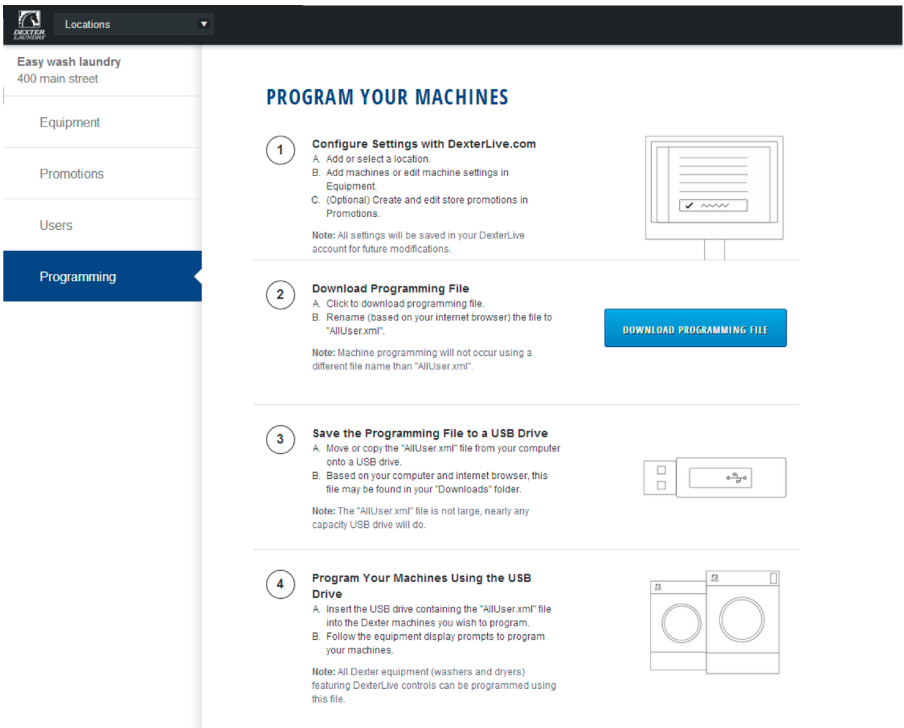


**B.** Based on your internet browser the file needs to be saved as "AllUser.xml". Depending on your Internet browser you may need to retrieve the file from your "Downloads" folder, which is located under "Computer".

**Note:** The newly created programing file may have changed from the proper "AllUser.xml Ma chine programming will not occur using a different file name than "AllUser.xml". Any extra extension names will require the file to be renamed back to "AllUser.xml" for the machine to recognize the file.

**7)** To save the Programming File to a USB Drive:

**A.** Move or Copy the "AllUser.xml" file from your computer onto a USB drive.

**B.** Based on your computer and internet browser, this file may be found in your "Down loads" folder, which is located under the "Computer" area.

**Note:** The "AllUser.xml" file size is small, nearly any capacity USB drive will do.



USB Port

PROGRAMMING BUTTON
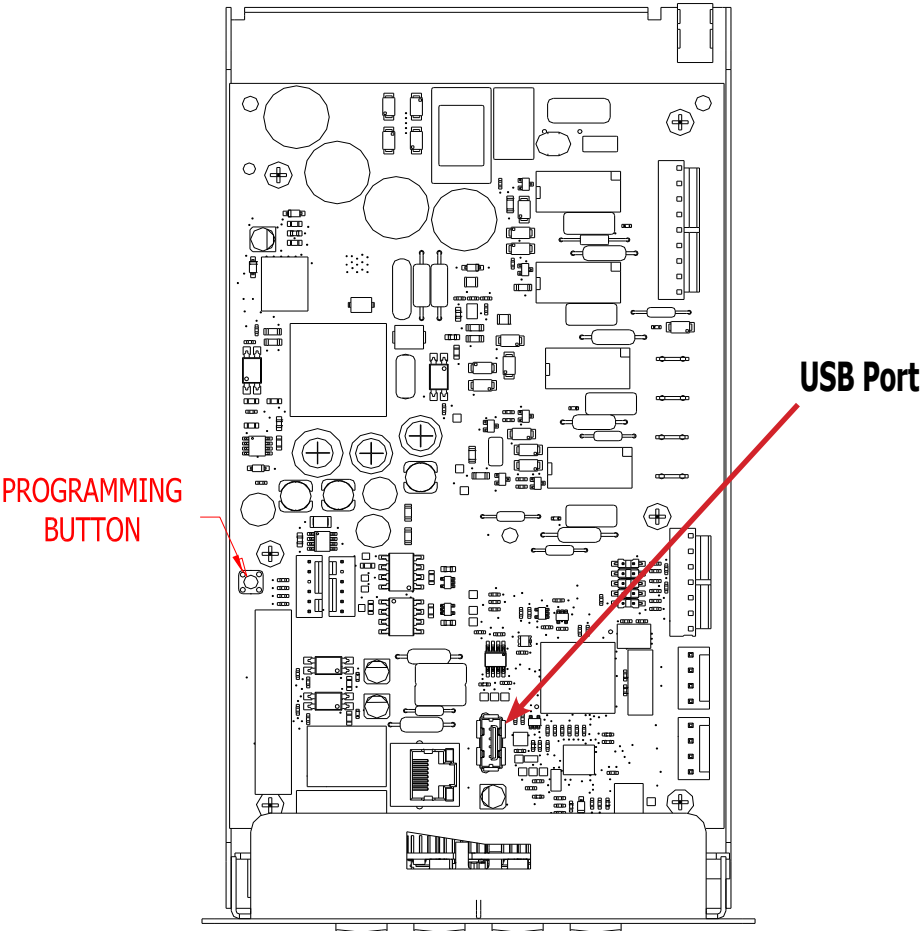
**8)** Program Your Machines Using the USB Drive

CAUTION!!! Be sure that any loose keys or other items that are connected to the USB de- vice are removed from the USB stick to prevent any possible metal contact with the control board.

**A.** Insert the USB drive containing the "AllUser.xml" file into the Dexter machines you wish to program. The control will scroll "…………" while identifying the program on the USB. Once identified, the display will scroll "INSTALL USER FILE FROM USB". At this prompt press the green start button on the front panel.

**B.** The machine will scroll "TO INSTALL – PRESS START". At this prompt, press the green "Start" again.
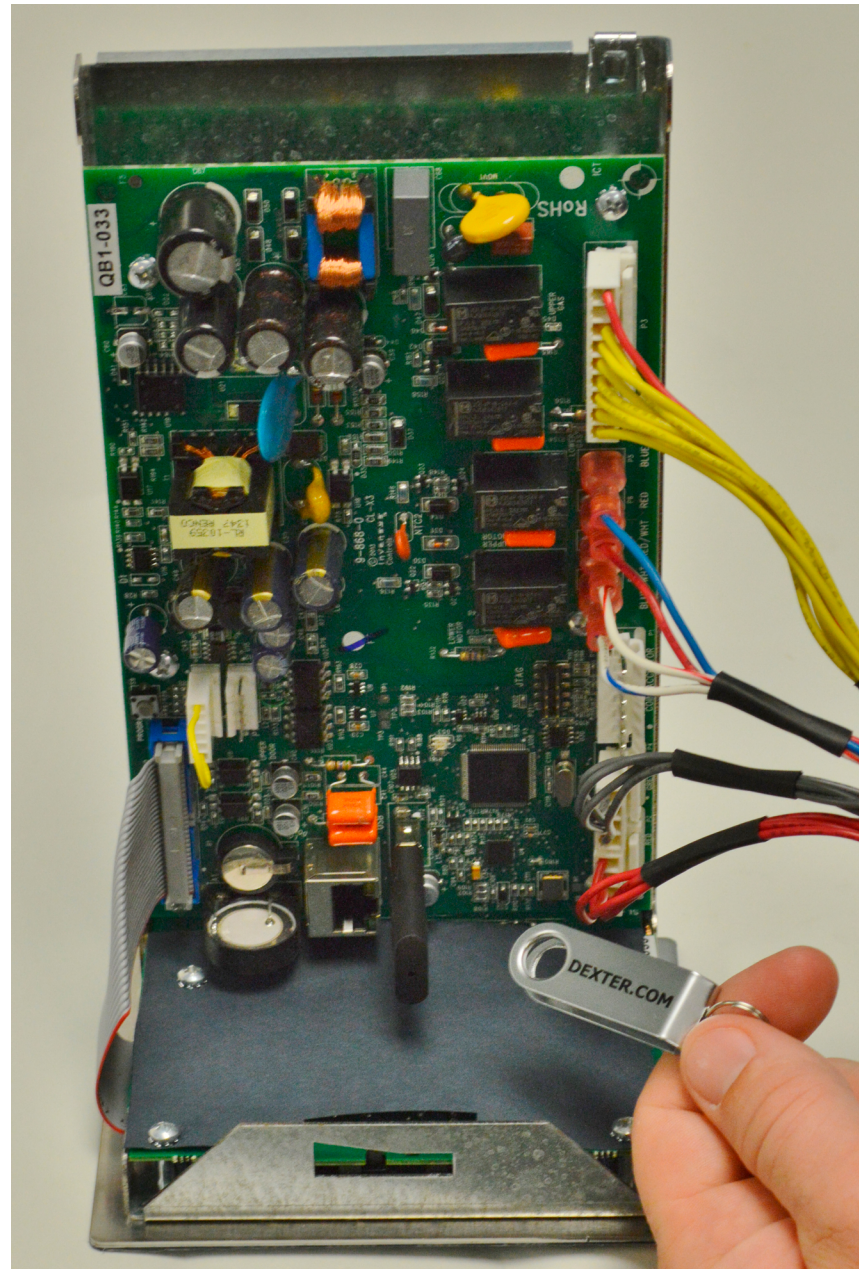


**C.** Once the program is uploaded successfully the control will scroll "DONE REMOVE USB". The USB drive can be safely removed at this point.

**Note:** All Dexter equipment (washers and dryers) featuring DexterLive controls can be programmed using this file once the equipment has been configured.

## PROGRAMMING THE DRYER CONTROL

The dryer control can be programmed to prompt the user for alternate vend prices, change dryer cycle times, temperatures and many other options. This can be accomplished in two ways:
1. Manual programming utilizing the "Start", "High", "Medium" and "Low" buttons for the bottom dryer.
2. USB download of a customizable User File. For instructions on using the USB download feature, please contact your local Dexter distributor or visit DexterLive.com.

## MANUAL PROGRAMMING:

The dryer must be in idle mode for the manual programming menus to be accessed. Idle mode is when the dryer is not actively running a drying cycle and the vend price is displayed on the screen (for both upper and lower dryers).

To enter the manual programming mode, the control tray on the dryer must be unlocked and pulled out to reveal the programming button. The programming button is then pressed for 1 second. The control should display "DRYER PROGRAMMING".

See the figure below for the location of the programming button on the control tray.



PROGRAMMING BUTTON
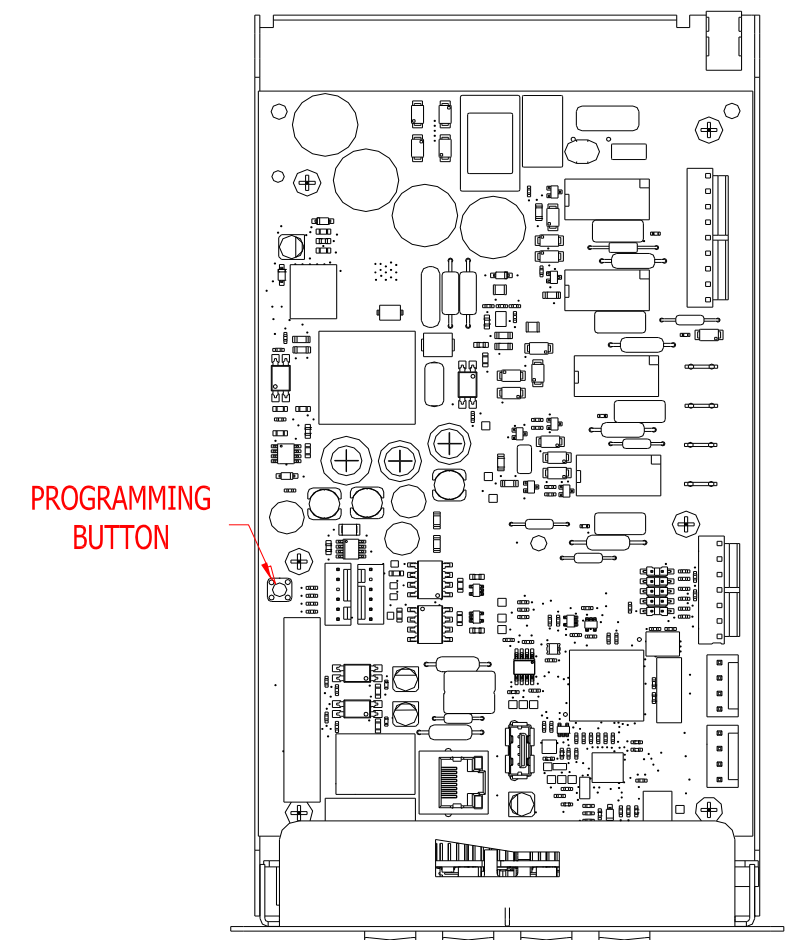
When manual programming mode is entered, the "Start", "High", "Medium" and "Low" buttons for the lower dryer perform alternate functions. Please note that the changes made using the lower dryer buttons affect both upper and lower dryers.

| Button Name | Alternate Function in Programming Mode |
|---|---|
| Start | Becomes the action to accept the displayed option or the "Enter" key |
| High | Becomes the action to move UP through displayed options (Press & hold for accelerated scrolling) |
| Medium | Becomes the action to move DOWN through displayed options (Press & hold for accelerated scrolling) |
| Low | Becomes the action to move back a step (1 press) or EXIT from programming mode (press for 3 seconds) |

These alternate functions allow the user to move through a menu of options to choose various programmable settings. The figure below shows the top level menu. Choosing an option from the top level menu will then display the next level of options (the sub menu).



### Quick Test Option:
When the Quick Test Option is chosen, the dryer will begin a shortened dry cycle without the displayed vend price being met. The purpose of this shortened cycle is to test all major components for proper operation.

Error Codes should all function normally during this test. The display will show customer prompts in a similar way to a normal dry cycle.

## Continuous Test Option:

Similar to the Quick Test, when the Continuous Test Option is chosen, the dryer will begin a dry cycle without the displayed vend price being met. However, in this case, it will be a continuously-running cycle. It will not time out after any designated amount of time.
**CAUTION:** This option is meant for factory use only. Do not operate the dryer with this cycle active without factory authorization.

## Error Code Historical Log:

The last five occurring error codes will be stored in the control with a time and date stamp. The purpose of this option is only to observe the history of these code occurrences (no changes can be made). The time is based off the Real Time Clock, but potentially shifted by the user's manual programming changes (Shift Hours option) and/or network time override. As additional error codes occur, the oldest of the five logged codes is cleared from memory.

## Prices Option:

This option allows the user to set values for coin acceptor inputs, vend price & time and extend dry price & time. It also allows the user to return the values to factory defaults. After changing prices using the "Up" or "Down" buttons, the "Enter" button must be pressed again for the control to store the changes that have been made. Note that, in general, time values are set in 1 minute increments. This can be changed to 30 second increments, by changing the "Display Time" to "MIN+SEC" (refer to the "Settings" section").

1. "RIGHT COIN" and "LEFT COIN" are the two possible inputs from coin acceptors.
2. "PRICE SET VEND" is the actual Base Vend Price (or Vend Price A) that is shown on the control display. The value can be increased or reduced even down to "0". In this case, the displays will prompt "FREE" and the cycle will start as soon is the "Start' button is pressed (without any vend price being met).
3. "TIME SET VEND" is the cycle time that the customer has available once they've met the Base Vend Price.
4. "FREE SET TIME" is the cycle time that the customer has available if the Base Vend Price is set to "FREE".
5. "EXTEND DRY" sets the price and time for additional drying time that becomes available after the customer has already met the Base Vend Price.

To reset either the coin acceptor inputs or the vend price to factory default, press "Enter" when the "DEFAULT" prompt is shown. Press "Enter" again when the "RESET" prompt is shown to confirm the action.
Example- A store owner has programmed the control for the following values:

| Base Vend Price | $1.00 |
|---|---|
| Base Vend Time | 30 minutes |
| Extend Dry Price | $.25 |
| Extend Dry Time | 8 minutes |

In this case, the customer adds 4 quarters to satisfy the $1.00 Vend Price. The display shows 30 minutes of drying time. At this point, if an additional quarter is added, the customer display shows an additional 8 minutes of drying time (38 minutes total) as per the Extend Dry Price & Time.
The customer starts the drying cycle and at 25 minutes into the cycle (13 minutes displayed), they add an additional quarter. The controller adds 8 minutes to the displayed time again (21 minutes total) as per the Extend Dry Price & Time.
"AFTER CYCLE" allows the user to choose whether a customer is allowed to add "EXTEND DRY" time for up to 30 seconds after the dryer door is opened after a completed cycle.

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"AFTER CYCLE" allows the user to choose whether a customer is allowed to add "EXTEND DRY" time for up to 30 seconds after the dryer door is opened after a completed cycle.

The figure below shows the sub menu options for Prices:

## Cycles Option:

This option allows the user to set temperature and cooldown information for the drying cycle. It also allows the user to return the values to factory defaults.

1. "TEMP SETTINGS" allows the user to make adjustments, within a designated range, to the cycling temperature for each of the "Low", "Medium" and "High" customer choices.
2. In addition, on the "Low" setting, the user can reduce the cycling temperature below 110 degrees F. In this case, when the customer chooses the "Low" setting, the dryer will not turn on the gas valve. When checked, the displayed temperature will read "NO HEAT".
3. "COOLDOWN" allows the user to change the designated time at the end of a cycle where the gas valve relay is turned off. On "High" and "Medium" temperature settings, the designated time cannot be reduced to less than 2 minutes.
4. "DEFAULT TEMP" allows the user to choose which general temperature setting, "High", "Medium" or "Low", the control will default to at the beginning of each cycle if the customer does not make a choice.
5. "ANTI WRINKLE" is a feature that periodically rotates the dryers after a cycle is complete. If the door was closed at the end of the cycle, and is left closed for 5 minutes, the enunciator will sound and the display begins scrolling "ANTI WRINKLE". 5 seconds later, the dryer motor will turn on for 60 seconds and then turn off. The gas valves will not be turned on. The "ANTI WRINKLE" message will continue throughout the time that the motor is turned on. The user can choose to enable or disable this feature.
6. "MAX CYCLE TIME" allows the user to set the maximum time that can be purchased for a cycle. This includes the total time purchased before the cycle is started, while the cycle is running, and after the cycle ends.

To reset all values in the Cycles option to factory default, press "Enter" when the "DEFAULT" prompt is shown. Press "Enter" again when the "RESET" prompt is shown to confirm the action.

**CYCLES** tree (left diagram):

- **TEMP_SETTINGS**
  - LOW — NO HEAT – 110-150 F (increments of 5) / NO HEAT – 39-63 C (increments of 3)
  - MEDIUM — 120-165 F (increments of 5) / 45-72 C (increments of 3)
  - HIGH — 150-190 F (increments of 5) / 63-87 C (increments of 3)
  - DEFAULT — RESET
- **COOL_DOWN**
  - LOW — 00:00-10:00 (00:30 increments)
  - MEDIUM — 02:00-10:00 (00:30 increments)
  - HIGH — 02:00-10:00 (00:30 increments) / For -39/-49 machines: 04:00-10:00 (00:30 increments)
  - DEFAULT — RESET
- **DEFAULT_TEMP**
  - LOW
  - MEDIUM
  - HIGH
- **ANTI_WRINKLE**
  - ON
  - OFF
- **MAX_CYCLE_TIME**
  - MAX_SET_TIME — 10:00-99:00 (1:00 increments)
  - DEFAULT — RESET

## Temperature Pricing Option:

This option allows the user to require additional vend amounts be added based on the drying temperature chosen by the customer. This pricing adder is effective only for the Base Vend Price (it does not affect the Extend Dry Price). It allows a pricing adder separate for "Medium" and "Hot" temperature settings. Example- A store owner has programmed the control for the following:

| Vend Price | $1.00 |
|---|---|
| Vend Time | 30 minutes |
| Extend Dry Time | 8 minutes |
| Medium Adder | $.25 |
| Hot Adder | $.50 |

In this case, the Vend Price is displayed as:
$1.00 if Low Temperature is chosen
$1.25 if Medium Temperature is chosen
$1.50 if Hot Temperature is chosen
When Temperature Pricing Adders are in place (user has chosen a higher value then $0.00), if the customer attempts to change their temperature selection from a lower temperature to a higher one during a drying cycle, there will be no change in the temperature selection. The higher temperature buttons are disabled until the drying cycle is complete and a new Vend Price is required.
The figure below shows the sub menu options for Temperature Pricing:

The figure below shows the sub menu options for Temperature Pricing:

**TEMP_PRICING** tree:
- MEDIUM_ADDER — FREE- 00.01-99.99 (00.01 increments)
- HIGH_ADDER — FREE- 00.01-99.99 (00.01 increments)

## Settings Options:

The Settings options allow for the user to make various programming changes to change how the control operation affects the customer. See below for detailed information on each next level option.

1. "Decimal Point": If the user programs the Decimal Point to "OFF", control display will not show a decimal point on any vend price values. The factory default is "ON".

2. "Display Time": If the user programs this value to "MIN", then minutes only will be shown for the cycle time. If it is programmed to "MIN+SEC", then minutes and seconds will be shown. This also allows other programming changes, involving time, to be made in either minute increments or minutes & seconds increments, as desired.

3. "Temp Scale": If the user programs this value to "F", then the temperatures will be displayed in Fahrenheit units. If it is programmed to "C", then the temperature will be in Celsius units.

4. "Sounds": If the user programs the Sounds to "OFF", the control will not sound the enunciator at the end of a dry cycle. The factory default is "ON".

5. "Password": If the user programs the password to any value other then 0000, the control will prompt the user to enter a password (the programmed value) before manual programming can be accessed. The factory default is "0000" (no password).

   a. Note that if the user forgets the Password, it can be reset to factory default (no password), by performing a hard reset on the control. Please refer to the appropriate section of this manual to understand how to perform a hard reset.

   b. The individual digits of the Password can be set by using the "Up" or "Down" buttons to change the number that is flashing. Once the desired number is chosen for a single digit, press the "Enter" button to move to the next one.
   Once all four desired digits are chosen, the "Enter" button must be held down for 3 seconds to confirm that the complete password should be set.

6. "Central Pay": If the user programs this value to "ON", the left and right coin inputs become upper and lower dryer coin inputs.

| Central Pay "OFF" | Central Pay "ON" |
|---|---|
| Left Coin Input | Upper Dryer Input |
| Right Coin Input | Lower Dryer Input |

A system can then be installed that will register coin inputs per individual dryer remotely from a Central Pay kiosk. The left and right coin prices must be appropriately programmed. When this option is enabled, the controller will only display customer prompts for a designated dryer. This designated dryer is determined when coins are inserted at the Central Pay kiosk.

7. "Language": The control uses English for the default language of the customer prompts. Alternatively, the user can choose Spanish, French, Malay, or Italian for the customer display prompts. However, all other prompts, such as Manual Programming, USB Programming and any Error Codes will still display in English.

8. "Shift Hours": This feature allows the user to shift the time used by the control from the time kept internally by the control. The control uses a Real Time Clock (RTC) to internally track the time and date. The RTC continues operation even if the control loses external power. The RTC is set for Central Standard Time and no daylight savings. Because the machine may be located in another time zone, the user can choose to create an alternate time & date that tracks in parallel to the RTC. When this alternate time is chosen, or shifted from the RTC, the alternate time will be used to, for example, track error code occurrences and set time-of-day pricing changes.

   a. The hours in "SHIFT HOURS" can be set by using the "Up" or "Down" buttons to change the number that is flashing. Once the desired hour shift is chosen, press the "Enter" button to move to the minutes. Once the hours and minute shift are both chosen, the "Enter" button must be held down for 3 seconds to confirm that the complete shifted time is set.

9. "Time": The control uses a Real Time Clock (RTC) to internally track the time and date. The RTC continues operation even if the control loses external power. The RTC is set for Central Standard Time and no daylight savings. However, if a problem occurs and the RTC time is not accurate, it can be reset to the current time using this option.

   a. The hours in "TIME" can be set by using the "Up" or "Down" buttons to change the number that is flashing. Once the desired hour is chosen, press the "Enter" button to move to the minutes. Once the hours and minute are both chosen, the "Enter" button must be held down for 3 seconds to confirm that RTC is meant to be reset to the complete entry.

10. "Date": Similar to "Time", if a problem occurs and the RTC date is not accurate, it can be reset to the current date using this option.

   a. The day of the month in "DATE" can be set by using the "Up" or "Down" buttons to change the number that is flashing. Once the desired day of the month is chosen, press the "Enter" button to move to the month of the year. Once the desired month of the year is chosen, press the "Enter" button to move to the year. Once the day, month and year are all chosen, the "Enter" button must be held down for 3 seconds to confirm that RTC is meant to be reset to the complete entry. To reset all values in the Settings options to factory default, press "Enter" when the "DEFAULT" prompt is shown. Press "Enter" again when the "RESET" prompt is shown to confirm the action.

11. "Out of Service" – The control can be put into an Out-of-Service mode via manual programming. When the mode is "ON", the control will scroll "OUT OF SERVICE" on the display. The machine will not react to any vend input and will not operate when in this mode. The factory default is "OFF".

12. "Alt Cool Down": This setting is for factory use only.

To reset all values in the Settings options to factory default, press "Enter" when the "DEFAULT" prompt is shown. Press "Enter" again when the "RESET" prompt is shown to confirm the action.

The figure below shows the sub menu options for Settings:
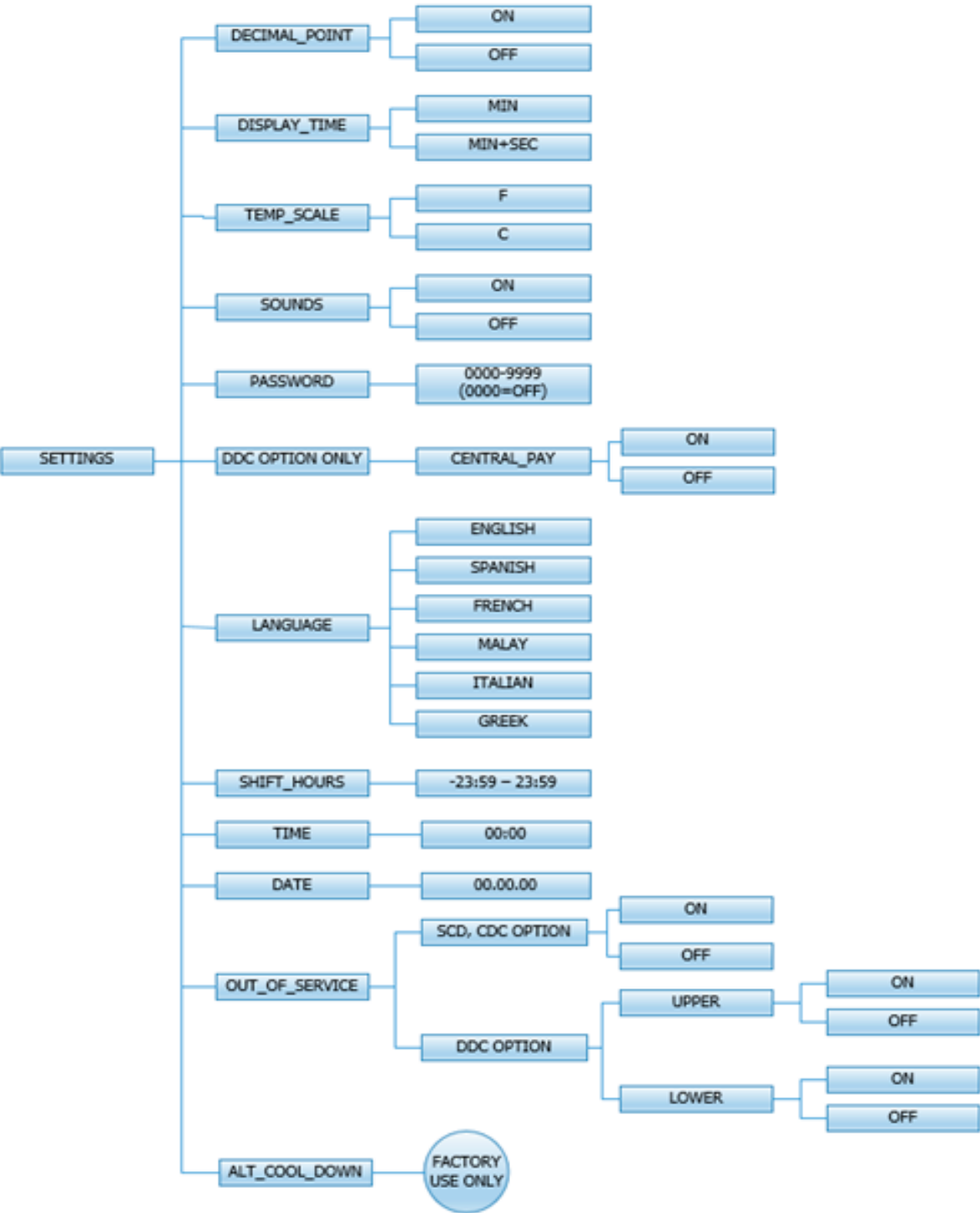
## Usage Menu:

The Usage menu allows for the user to track data about machine usage. See below for detailed information on each sub menu option.

1. "Coin Audit": The coin audit field shows the accumulation of coin pulses that were sent to the control over each of the left and right coin inputs. Note that this is a count of coin pulses, not an accumulated report of vend value.

    a. The user can also return the coin audit amounts to the factory default setting (zero). To reset all coin audit values, press "Enter" when the "DEFAULT" prompt is shown. Press "Enter" again when the "RESET" prompt is shown to confirm the action.

2. "Motor Hours": The motor hours field shows the accumulated hours of operation for both the upper and lower motors independently. In many cases, it will match the cycle hours of the machine. However, separate fields are provided in the event that a motor is replaced on a machine. The user can set the motor hours to a designated number. For example, if it is necessary to replace the control on a machine, the new control could be programmed to show the motor hours that were recorded by the previously installed control. The individual digits of the hours count can be set by using the "Up" or "Down" buttons to change the number that is flashing. Once the desired digit of the hours is chosen, press the "Enter" button to move to the next digit. Once the complete hours are chosen, the "Enter" button must be held down for 3 seconds to confirm the action.

    a. The user can also return the motor hours to the factory default setting (zero). To reset the motor hours, press "Enter" when the "DEFAULT" prompt is shown. Press "Enter" again when the "RESET" prompt is shown to confirm the action.

3. "Cycle Hours": The cycle hours field shows the accumulated hours of operation for both the upper and lower dryer dryers independently. In many cases, it will match the motor hours of the machine. However, separate fields are provided in the event that a motor is replaced on a machine. See the Motor Hours description for more information.

The figure below shows the sub menu options for Usage:

**Control Menu:**

The Control menu allows for the user to observe important technical information for the control. No changes can be made at this menu. See below for detailed information on each sub menu.

1. "Serial Number": This is the control serial number.

2. "MAC Address": The MAC Address is a unique identifier designated to the control by the manufacturer. It allows the control to be recognized by network routers.

3. "IP Address": The IP Address is the identifier given to the control by a network system.

4. "M Firmware": The M Firmware is the Main Firmware currently loaded onto the control.

5. "C Firmware": The C Firmware is the Communications Firmware currently loaded onto the control.

The figure below shows the sub menu options for Control:

```
                    ┌─── SERIAL NUMBER ─── XXXXXXX
                    │
                    ├─── MAC ADDRESS ──── XXXXXXX
                    │
    CONTROL ────────┼─── IP ADDRESS ───── XXXXXXX
                    │
                    ├─── M FIRMWARE ───── MXX.XX.XX
                    │
                    └─── C FIRMWARE ───── CXX.XX.XX
```

# Notes

# Section 4:
Schematic
C-Series
Stack Dryer

## 60HZ Wiring Schematic Dryer Idle - No Coins Added
Top Dryer Used For This Example

110 VAC 60Hz is supplied to the main power terminal block, L1 power, N=neutral, plus ground. BLK/Red coming off of L1 and BLK/BLU coming from N power the R1, and R2 motor relays. Red wire from L1 and the blue wire from N supply power and neutral to the step down transformer. After the stepdown transformer the control is protected by a 2.5 Amp fuse in the black wire. When there is power to the dryer the Computer Board will be powered and the display lighted from the 24 VAC secondary side of Control Step Down Transformer. 24 VAC from here is also on one side of the door switch on a black wire. Closing the loading door allows 24 VAC to pass on to the Computer Board on two blue wires. One blue wire makes 24 VAC available to one side of the Motor Run Relay on Computer Board. The other blue wire provides a 24 VAC signal to the Computer Board telling it that the door is closed and door light on the computer board should be illuminated.

## Coins Added - Motor Starting and Running
Top Dryer Used For This Example

As each coin is added the Coin Switch closes and completes a circuit to the Computer Board. The Computer Board counts these signals and registers them against time. The time will display once the Start Button for Upper or Lower is pushed. When the Start Button is pushed again the Computer Board Motor Run Relay closes on the computer. With this Relay closed, 24 VAC is supplied to the Motor Control Relay (R1) on the red wire and also a violet wire going down to motor. The motor LED on the computer board should be illuminated anytime the computer calls for the motor to operate. With (R1) engaged and 110 VAC at motor the Motor Start Switch in motor is drawn in to the start position. In this position the incoming power 110 VAC is supplied directly to the main run winding and through the Start Capacitor to the Auxiliary Winding (start winding). As the Motor comes up to speed, the centrifical switch inside motor opens the circuit to the Start Winding and closes the circuit to allow 24 VAC to pass to the Gas Relay on the Computer Board on the other violet wire.The heat circuit in the dryer can not operate if the motor is not running. The gas LED on the computer board will be illuminated when Computer Board calls for the heat after Motor Centrifical Switch has closed.

## Heat Circuit
Top Dryer Used For This Example

With the Drive Motor running and 24 VAC provided to the Computer Board Gas Relay, it will close if Computer Board senses programmed temperature is needed. The violet wire changes to an orange wire out of the Computer Board Gas Relay. When this relay closes it provides 24 VAC to the High Limit Thermostat. The High Limit Thermostat is normally closed. (It will open, turning off the heat circuit, if the dryer can't move enough air from problems such as an exhaust restriction or other problems.) 24 VAC now goes through to the normally open Air Switch (Sail Switch) on the brown wire. This switch is closed only if the dryer is running and has the correct air flow. With the dryer running and the Air Switch closed, 24 VAC is supplied to the normally closed upper manual reset Overtemp Thermostat on the gray wire and changes to the black wire out of switch and then changes to red wire and goes to the 1.5 amp in-line fuse that protects the Upper Ignition Controller(GREY BOX). With 24 VAC now supplied to the Upper Ignition Controller (GREY BOX) it will then send high voltage to the Spark Ignition Electrode via the High Voltage Lead Wire (this lead looks like an automotive spark plug wire). The Ignition Control Module (GREY BOX)simultaneously sends 24VAC to the Gas Valve Coil which open the Gas Valve and allows gas to pass through to the main burner. When ignition occurs the high voltage sparking stops and if Ignition Control Module (GREY BOX) gets a flame sense signal it will allow gas valve coil to remain energized and continue burner operation. If ignition does not occur, the Ignition Control Module (GREY BOX) will spark for 10 seconds before locking out.

## Manual Reset Safety Shutoff Over-Temperature Thermostat

Top Dryer Used For This Example

This thermostat is manually reset by pushing in the red button. The Over Temperature Thermostat is a safety backup for the entire Heat Circuit and located in the exhaust duct. If the dryer over heats this Over Temperature Thermostat it opens the line to turn off the heat but leaves the Computer Board lighted and the drive motor powered and turning so the basket will cool down.

## Cool Down

Top Dryer Used For This Example

At the preprogrammed time (2 minutes factory setting--adjustable) the Computer Board will open the Gas Relay Contact. This allows the Drive Motor to continue to run but without heat. The gas light on the computer board should not be illuminated anytime the computer is in cool down. This Cool Down period allows the clothing (zippers, snaps, etc.) time to cool down to a temperature that is easily handled by customers.

## End of Cycle

Top Dryer Used For This Example

At the end of the cool down, the Computer Board opens the Upper Run Relay, which removes power from the Motor Control Relay (R1) and also removes power to the Drive Motor. The motor light on the computer board should no longer be illuminated. The Drive Motor and tumbler stops and the Computer Board display now flashes until the dryer loading door is opened. Once the dryer loading door is opened to remove the clothing the display goes back to vend price.

# Wiring Diagram for DC20x2
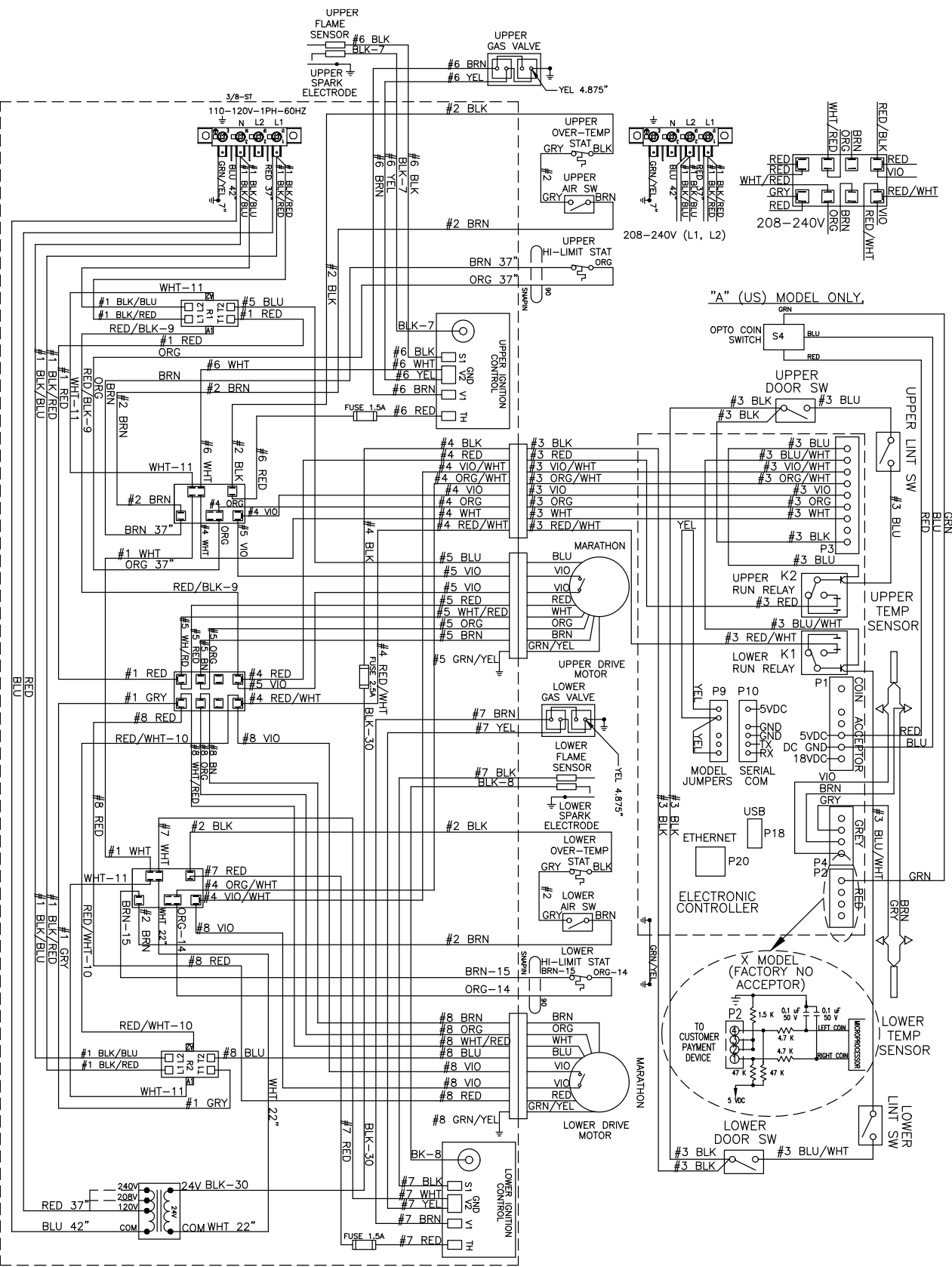


9506-836-001PR   WIRING DIAGRAM   DC20X2N__-15_C_X-

**IMPORTANT: RETAIN THIS ELECTRICAL DIAGRAM FOR SERVICE.**

# Wiring Schematic for DC20x2
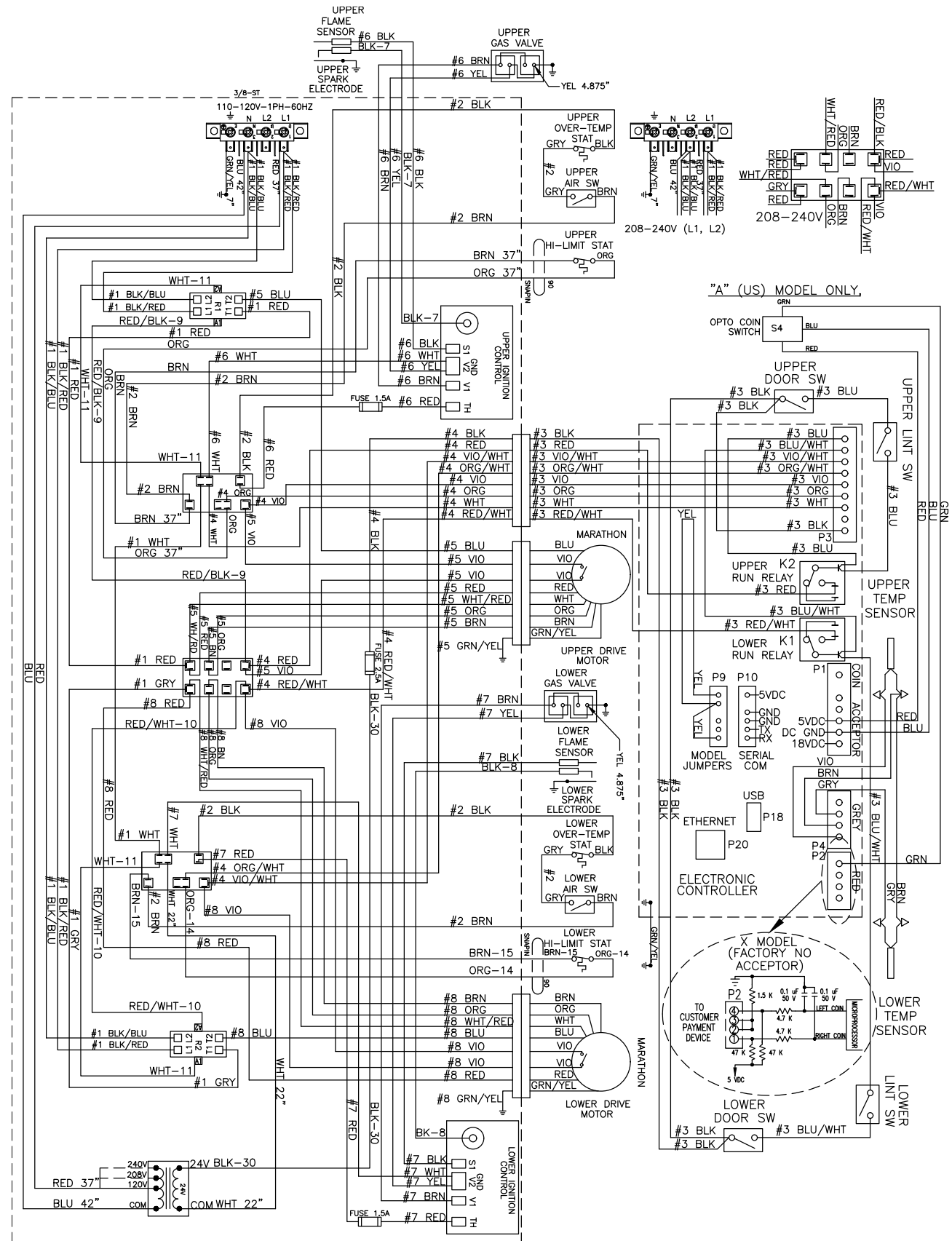


9506-836-001PR   WIRING DIAGRAM   DC20X2N_-15_C_X-

**IMPORTANT: RETAIN THIS ELECTRICAL DIAGRAM FOR SERVICE.**

# Notes

# Section 5:

## Service Procedures

# Service Procedures

## Clothes Door Removal
1. The clothes door may be removed from the hinge bracket by unscrewing and removing the allen-head pivot screw located at the door upper hinge point.
2. Next lean the door out of the top of the hinge bracket and lift the door from the bottom hinge pin. Note the spacer between the bottom of the door and the hinge.

## Clothes Door Latch Adjustment

1. Loosen the lock nut on the latching stud. It is located directly behind the door handle.
2. Open the loading door.
3. Screw the door catch stud in or out as necessary and then retighten the lock nut.

## Door Switch Removal And Installation

1. Turn off power to machine.
2. Remove upper lint tray.
3. Unlock Controller.
4. Remove upper door hinge pin and remove door assembly.
5. Remove hinge plate screws and upper right hand screws.
6. Remove two lower left hand screws and loosen upper left hand screw.
7. Pull out right lower corner and remove two wires to switch..
8. Depress tabs and remove switch from the front.
9. To install reverse directions.

## Installation Of Clothes Door Window And Gasket

1. Place the clothes door, with its face down, on a solid surface.

   NOTE: Prewarming the gasket makes the installation much easier.

2. Install the window gasket on the clothes door flange. The wider lip of the gasket should be on the bottom side or front face of the clothes door and the ridges should be up.
3. Locate the seam at the latching stud.
4. Apply a soapy water solution or rubber lubricant to the gasket.
5. Slide the glass into the middle of the door ring and gasket with half of the glass above the door and half below.
6. While pressing down on the glass, stand the door up and use a modified screw driver with the end rounded off to install half of the glass. Lay the door down and install the other half.
7. At the six o'clock position, pry the glass up enough to install the black spacer. (reuse from old door gasket)

## High Limit Thermostat Locations And Functions

**A. Burner Housing**- This hi-limit is located on the back side of each burner housing.
1. The thermostat opens the circuit to the main burners in the event of malfunction in the gas control area or temperature control. This thermostat will open quickly if there is a significant loss of air flow over the burner area.
2. It is covered by a guard and is held in place by two screws. There are spacers between the thermostat and bracket which must be used to give proper operation.

**B. Manual Reset Over temperature Safety Thermostat-** The manual over temp thermostat is located on the right side of the exhaust duct above the blower motor, the belt guard will have to be removed to gain access to the thermostat. The reset button is located in the center of the thermostat.

1. The manually resettable thermostat limits the operating temperature a dryer can reach should some abnormal situation occur.
2. Should one of the thermostats be tripped, the tumbler will cease to heat until the thermostat is reset. Once the dryer cools, the thermostat may be reset by inserting a pencil or stick through the opening in the thermostat cover.

   To remove the hi-limit thermostat on the rear of the burner housing, remove the mounting screws holding its respective guard. Next, remove the terminal of each wires attached to the thermostat. Lastly, remove the mounting screws holding the thermostat to the burner.

   **REMOVAL::** To remove the Over-temp thermostat on the rear of the right side of the blower duct, remove the terminal of each wires attached to the thermostat. Lastly, remove the mounting screws holding the thermostat to the exhaust duct.

## Pressure Regulator Adjustment

Use the following procedure whenever it is necessary to check the pressure regulator setting.

> NOTE: Any adjustment of the pressure regulator must be made with a manometer attached at the plug in the main burner manifold.

1. Shut off the gas supply to the dryer.
2. Remove the 1/8" pipe plug from the end of the main burner manifold.
3. Attach a manometer to the manifold end.
4. Remove the pressure regulator cover screw on the gas valve.
5. Open the shutoff valve, and operate the dryer.
6. Adjust the pressure for a manometer reading of 3.5" water column gas pressure. (11.0" for L.P.)

> NOTE: The main burners must be operating when adjusting the pressure regulator.

7. Shut off the gas supply to the dryer. Remove the manometer and install the 1/8" pipe plug in the manifold.
8. Open the shut off valve, start the dryer and check for gas leaks while the burners are ignited.

## Coin Acceptor Removal

Loosen the four screws (Torx #10 driver) mounting the coin acceptor to its retaining bracket.

Do not remove the screws or the retainer will fall behind the panel.

Shift the acceptor up and down to allow the retainer to slide through the panel opening. When removing, the bottom should be brought through the panel opening first. When reinstalling, the top should go in first.

## Coin Switch Adjustment

The coin switch should click soon after the coin hits the operator wire. However there must be enough travel to allow the switch to reset once the coin has passed. Adjustment should be made by bending the wire very close to its attachment point.

## Heat Sensor

This unit takes the place of the regulating thermostat on a mechanical timer dryer. The Heat Sensor is a thermistor. The way these work is fairly simple. As the temperature goes up, the resistance in the thermistor (heat sensor) goes down. As the temperature drops, the resistance in the thermistor (heat sensor) goes up.

## Electronic Control Diagnostic Lights

The electronic control has 6 diagnostic lights to aid in service of the dryer. Each pocket has indicator lights for the motor circuit, door switch circuit, and the heat circuit. When the electronic control is carefully unlocked and moved forward these lights are visible on the circuit board. They are each labeled as to function indicated.

1. When either dryer door is closed, the appropriate door light on the computer should be illuminated indicating that the door is closed.

2. When either dryer is running, the appropriate motor light on the computer should be illuminated indicating that the computer is calling for the motor to operate.

3. When either dryer is calling for heat, the appropriate heat light on the computer should be illuminated indicating that the computer is calling for heat.

An example of their function would be troubleshooting an upper dryer pocket that did not heat.

1. Start the machine and insure that it did not heat.

2. Check the upper heat light and see if it is lit.

3. If the heat light is on, this would indicate that the computer was calling for heat and that it was not at fault. You would then go on to check the rest of the heat circuit.

## Electronic Control Test Cycle

This test cycle allows the dryer to run for 5 minutes without the need for adding money while servicing. To actuate this 5 minute test cycle enter into the Programing mode and enter into Quick Test.

## Electronic Control Removal

Unlock the retaining lock in the control assembly. Slide the control out of the machine holding the control by the metal tray. There is enough wire length to allow removing the control tray from the machine before disconnecting the wires.

## Membrane Switch Replacement

The control buttons are an adhesive membrane switch assembly which may be replaced separately. Slide the control out to gain access to disconnect the ribbon connector. The ribbon connector must be pushed solidly and squarely into its connector when connecting a new membrane switch.

## Temperature Sensor Testing

If either tumbler display shows an F1 or F2, that is an indication of possible temperature sensor problems for that tumbler. Before replacing a sensor, check the wires and connections of the sensor for damage. The sensor lead wires are very small and care should be used in routing and connecting them. The sensors are located under the tumblers and may be viewed by removing the lint screen. The temperature sensor should have between 30,000 ohms and 60,000 ohms resistance at room temperature if okay.

## Temperature Testing

To check the temperature in the dryer tumbler, press and hold the upper or lower start button for the tumbler being checked and while holding the start button also press the temperature button for the temperature to be checked. The display will read out the current temperature.

## Temperature Sensor Removal

**Sensor located under drum**



UPPER - Remove front panel upper. Once front panel is removed, reach through the right side and back into the area where the sensor is mounted and remove wire nuts to disconnect.

LOWER - To remove the lower temperature sensor it is necessary to remove the lower front panel to gain access to the mounting bracket. Then the bracket is removed as on the upper cylinder.
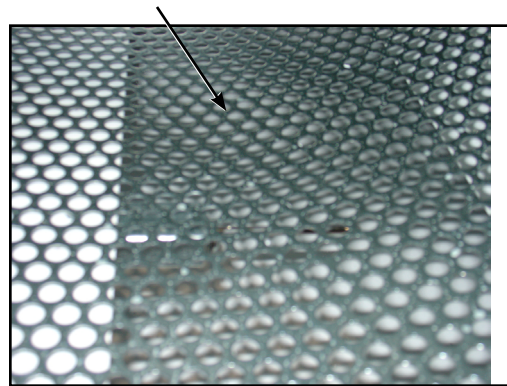
## Upper Front Panel Removal
1. Remove the loading door from the panel.
2. Remover the Dryer control board.
3. Remove the 4 phillips screws, 2 on the righ and 2 on the left. Once panel is loose remove the door switch wires.

The trim does not have to be removed. (The panel may be removed with the door left in place, although it is much heavier and more awkward to do so.)

## Lower Front Panel Removal
To remove the lower front panel a procedure similar to the upper may be used. However, the bottom of the upper panel must be loosened and pulled out to allow the upper flange of the lower panel clearance to be removed.

NOTE: Always remove power from the machine before changing drive belts or working with the drive system.

## Final Drive Belt Replacement
To replace the final drive belt turn the cylinder slowly by hand and work the belt off of the large pulley.

## Motor Drive Belt Replacement
To replace the motor drive belt the final drive belt should be removed as above. Cut the old motor belt and remove. Next Unplug the motor harness. The new motor drive belt fits under the four motor mounting bolts. To achieve this, remove these four bolts and slide the belt under the motor. Reinstall the four motor bolts. Check to make sure the motor turns freely and does not rub on the fan housing. Plug in the motor harness.

NOTE: All drive belts are self adjusting.

## Tumbler Pulley Removal And Installation
Remove the 1 1/2" nut and lock washer. Pull the pulley off the shaft. Watch for the locking key on the tumbler shaft. Upon installation, the tumbler nut should be torqued to 150 ft./lbs.
**Note:** After Serial #226213 Remove bolt and washers holding pulley to cylinder shaft. Reincert bolt then using two or three jaw puller Pull pulley straight off of shaft.

## Intermediate Pulley And Tension Arm Removal

1. The intermediate pulley is retained with a snap ring. Remove the snap ring and the pulley slides off the shaft.

2. With the pulley off, there is access to the self adjusting tension arm assembly. The tension arm assembly may be removed by removing the snap ring that holds it to the tension arm support assembly pin. The arm assembly is replaced as a complete unit.

3. The grease fitting for the intermediate shaft should be greased monthly.

## Tension Arm Support Assembly Adjustment
The tension arm support assembly may be adjusted for alignment of the intermediate pulley and also to align the belts. The three outer nuts allow the alignment of the pin to be adjusted by pivoting the assembly on the center bolt. The center bolt can be screwed in to allow bringing the complete assembly farther back if necessary for belt alignment.

## Motor Blower Assembly Removal And Installation

1. Remove the motor wiring cover and take the 3 motor wires off.

2. Remove the motor wiring cover and take the 3 motor wires off.

3. Remove the 9 nuts and lock washers that retain the blower cover and set assembly out of dryer.

4. The blower is held in place with 2 square headed set screws. Upon reassembly, one blower set screw should fit in the counter sink in the shaft and the other set screw should go against the flat side of the shaft. Use red Loctite on the set screws and torque to 165 in./lbs.

5. The motor is mounted with 4 bolts to the blower cover.

## Air Flow Switch Operation And Adjustment
The air flow switch assembly is part of the ignition safety circuit and insures that the burners don't operate unless there is air flow. When the drive motor and blower are running the flat actuator is pulled in against the back of the dryer closing the switch. If this doesn't happen ignition will not occur. The air flow switch assembly is mounted by two screws through the bracket. It can be adjusted by loosening these mounting screws and moving the switch forward or backward.
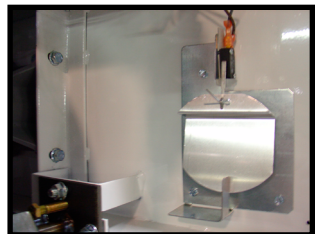


## Ignition Transformer Fuse
The 1 1/2 amp fuse protects the ignition transformer. To remove it just twist and pull it out.

## Ignition Control Transformer
When heat is called for, the ignition control transformer steps 120VAC down to 24VAC to power the ignition control.

## Electronic Ignition Module
This machine uses an electronic spark ignition system to directly light the burners in each tumbler.

1. The electronic ignition module for each tumbler is located inside the electrical box. This is the metal box on the back of each tumbler area directly to the right of the final drive pulleys.

2. The red wire from the transformer traveling thru the 1.5 amp fuse and into the module supplies the 24VAC required to operate the entire direct ignition system.

3. The black colored hi-voltage wire (spark plug type) plugs onto the post connector on the module, and the multi-wire plug fits into the side of the module.

## Spark Ignition Module Removal

1. The spark electrode and sensing electrodes are located directly over the rear burner inside the burner housing.

2. The electrode with the black hi-voltage wire conducts the spark to the center grounding probe, directly over the burner.

3. The electrode with the black sensing wire detects ignition and monitors flame by signaling the module.

NOTE: Proper grounding of the ignition system (yellow wires) is very critical for proper ignition sequence.

## Ignition System-Function & Sequence
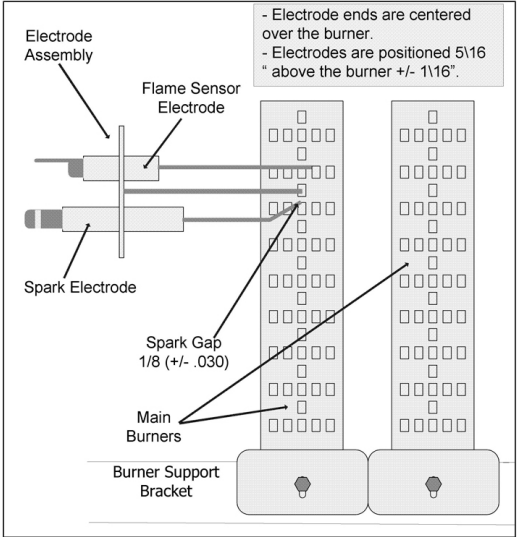
During normal dryer operation, the following occurs:

1. The dryer electronic control calls for heat.

2. If the drive motor is running, the motor safety circuit provides power to the electronic control. If the control senses that the heat should be on, a circuit is closed allowing power through the high limit thermostat and air flow switch to the ignition transformer. The transformer provides 24VAC to the ignition module and sparking occurs at the ignition electrode. At the same time 24VAC is applied to the gas valve.

3. Once the flame is established, the sensing electrode detects the presence of flame and the sparking stops.

4. If for any reason the flame is not established in a period of 10 seconds, the electronic control will try this sequence for 3 tries. Normally the 10 seconds "Trial For Ignition" period is ample to establish and prove flame.

5. If the flame is shutdown or blown out during operation, the ignitor will imm.ediately go into "Trial For Ignition" again for 10 seconds.

6. However,at the end of 3 separate retries of 10 seconds "Trial for Ignition", the flame is not established, the ignition system goes into "Safety Lock-Out" and will not reactivate the "Trial for Ignition" until there is a current interruption for a period of 15 seconds. This interruption can be provided by opening the dryer loading door and allowing the machine to come to a complete stop for 15 seconds.

## Ignition System-Checkout

1. If flame is present during "Trial For Ignition" period but the system shuts down, there may be an improper ground. The entire ignition system is grounded together including the electrode assembly, the electrode mounting bracket, the burners and the burner bracket. Shutdown can also occur if for some reason the system isn't sensing the flame. Check the sensor for damage and check the connections of the sensor lead.

2. If there is no spark or intermittent spark, check black hi-voltage lead wire for damage or cracks in insulation. (This lead wire must not be taped or connected to any metal edges along its length to prevent pinching and arcing. Also, do not bundle this wire with other wires.)

NOTE: Spark gap and electrode location are important. If the electrode is damaged or mounting is changed the spark gap may not be correct for ignition to occur. Check for cracks in the ceramic insulator. Replace electrode assembly if necessary. Also check for carbon or foreign material on the electrodes and clean if necessary.



Electrode Assembly
Flame Sensor Electrode
Spark Electrode
- Electrode ends are centered over the burner.
- Electrodes are positioned 5\16 " above the burner +/- 1\16".
Spark Gap 1/8 (+/- .030)
Main Burners
Burner Support Bracket

## Ignition Module Removal

If the ignition modules are mounted on a bracket, see section A. Otherwise, see section B.

1. Remove all of the terminals of the wiring harness attached to the ignition module. Then, remove the terminal of the hi-voltage cable attached to the ignition module.
2. Remove the mounting screws holding the ignition module in the control box.

## Spark Electrode Assembly-Removal

1. Remove electrode cover and disconnect wires to electrodes.

2. Remove two screws to detach electrode assembly.

## Gas Valve & Manifold Removal

1. Disconnect union at gas valve and disconnect wires from gas valve operator coils.

2. Remove right manifold mounting bracket screws and slide manifold to remove from left bracket.

## Main Burner Orifice Removal

1. Remove manifold and gas valve assembly as above.

2. Using an open end wrench, remove orifices from manifold.

## Main Burner Removal

1. Remove the 4 screws securing the cover for the burner housing and the one screw mounting the high limit cover. With the burner housing cover removed, there is complete access to the burner assemblies.

## Cylinder Removal

1. Remove the front panel in front of the cylinder.

2. Remove drive belt, pulley, and key from cylinder shaft.

3. Pull the cylinder from the front of the machine.

## Adjustment Of Cylinder Assembly With Front Panel Removed

1. Loosen the two top adjusting bolts and two bottom adjusting nuts and lock nuts holding the bearing housing to the drive plate.

2. Loosen the four mounting bolts on the side channels.

3. Open the clothes door and insert a 1/2" thick shim at the 3 and 9 o'clock positions and a 1/4" thick shim at the 6 o'clock position.

4. Tighten the two bottom adjusting nuts and tighten locking nuts.

5. Tighten the bottom right mounting bolt, then the top left mounting bolt. Tighten the remaining two bolts. (Shim where and if necessary.)

6. Tighten the two top adjusting bolts.

7. Remove all the shims from between the front panel flange and cylinder (3, 6, and 9 o'clock).8. Spin the cylinder to check for rubbing baffles, pressing down hard while rotating. If rubbing is detected, repeat procedure paying particular attention to placement of shims between bearing housing and side channels.

## Tumbler Through Bolt Access Cover
Remove 4 screws that mount the air flow switch to the back of the dryer. Remove 2 screws that retain access cover. With access cover removed, tightness on the tumbler through bolts can be checked and tumbler alignment can be adjusted.

## Bearing Housing Removal
After removing cylinder as previously outlined, simply unbolt the bearing housing and remove.

# Notes

# Section 6:

Troubleshooting

C-Series

Stack Dryer

# Trouble Shooting

### Electronic Control Diagnostic Lights

The electronic control has 6 diagnostic lights to aid in service of the dryer. Each pocket has indicator lights for the motor circuit, door switch circuit, and the heat circuit. When the electronic control is carefully unlocked and moved forward these lights are visible on the circuit board. They are each labeled as to function indicated.

1. When either dryer door is closed, the appropriate door light on the computer should be illuminated indicating that the door is closed.

2. When either dryer is running, the appropriate motor light on the computer should be illuminated indicating that the computer is calling for the motor to operate.

3. When either dryer is calling for heat, the appropriate heat light on the computer should be illuminated indicating that the computer is calling for heat.

An example of their function would be troubleshooting an upper dryer pocket that did not heat.

1. Start the machine and insure that it did not heat.

2. Check the upper heat light and see if it is lit.

3. If the heat light is on, this would indicate that the computer was calling for heat and that it was not at fault. You would then go on to check the rest of the heat circuit.

**Upper Gas Light**

**Lower Gas Light**

**Upper Motor Light**

**Lower Motor Light**

**Model Selection Jumper**

**Program Switch**

**Upper Door Light**

**Lower Door Light**

**Figure: 1**

## To enter a test Cycle Mode you will have to enter the programing mode:

### MANUAL PROGRAMMING:

The dryer must be in idle mode for the manual programming menus to be accessed. Idle mode is when the dryer is not actively running a drying cycle and the vend price is displayed on the screen (for both upper and lower dryers).

To enter the manual programming mode, the control tray on the dryer must be unlocked and pulled out to reveal the programming button. The programming button is then pressed for 1 second. The control should display "DRYER PROGRAMMING".

See the figure 1

Next press Start and you can scroll through the options you will either want to select Quick test or Continuous Test depending on the length of time you require to preform the tests.

### Quick Test Option:

When the Quick Test Option is chosen, the dryer will begin a shortened dry cycle without the displayed vend price being met. The purpose of this shortened cycle is to test all major components for proper operation.

Error Codes should all function normally during this test. The display will show customer prompts in a similar way to a normal dry cycle.

### Continuous Test Option:

Similar to the Quick Test, when the Continuous Test Option is chosen, the dryer will begin a dry cycle without the displayed vend price being met. However, in this case, it will be a continuously-running cycle. It will not time out after any designated amount of time.

**CAUTION:** This option is meant for factory use only. Do not operate the dryer with this cycle active without factory authorization.

## Error Codes

| Symptom | Probable Cause | Suggested Remedy |
|---|---|---|
| **TEMP SENSOR SHORT** | Shorted Temperature Sensor or wire. | The dryer control shall not start until the detected short circuit is removed. Regardless of condition of short circuit, Error Code will be displayed until programming button is pressed to return machine to idle mode. |
| **TEMP SENSOR OPEN** | Open Temperature Sensor or wire | The dryer control shall not start until the detected short circuit is removed. Regardless of condition of short circuit, Error Code will be displayed until programming button is pressed to return machine to idle mode. |
| **PCB ERROR1** | Memory corrupted | Power machine down and try to reset control. Varify voltage to the control board. Check ground to board. Replace control board if error can not be cleared |
| **PCB ERROR2** | Analog/ Digital Error | Power machine down and try to reset control. Varify voltage to the control board. Check ground to board. Replace control board if error can not be cleared |
| **COMM ERROR1** | Communication Bus Error | Power machine down and try to reset control. Varify voltage to the control board. Check ground to board. Replace control board if error can not be cleared |
| **COMM ERROR2** | No Dryer Model Selected | This error occurs when a pin combination on the model selection header is used that does not have a model designated for it. check connector marked Jumpers on the control board. |
| **COMM ERROR7** | Communication Bus Error | If connected to DexterLive, Disconnect cable, and preform a soft restart by holding down the program button on power up. Preform Soft restart. contact your Dexter factory representive. |
| **Fuse Error** | Internal Control program Error. | Internal IC issue. Replace control. |
| **CRC ERROR** | Firmware Corrupted | The error is fatal. The control must be replaced. |

## TROUBLESHOOTING

| Symptom | Probable Cause | Suggested Remedy |
|---|---|---|
| **Tumbler does not turn** | Drive belts | Check both drive belts. Replace if failed. |
| | Drive motor | Check capacitor and motor. Replace if failed |
| | Door switch | Check for door closed L.E.D on control board. Check door switch contacts and adjustment. Adjust or replace door switch. |
| | Electronic control | Is electronic control closing motor relay to power drive motor? Check for motor light on electronic control. If no light and time counting down, change control. If light is on, check for proper voltage and wiring to motor relay in rear control compartment. |
| | Motor run relay | Test for proper voltage to run relay coil, Test output voltage of relay when contacts ingauged. if no voltage replace relay. |

| Symptom | Probable Cause | Suggested Remedy |
|---|---|---|
| **Tumbler turns but no spark at burner** | Glass fuse | Check small glass control fuse in back of dryer. Replace if failed. |
| | Temperature sensor | The temperature sensor should have between 30,000 ohms and 60,000 ohms resistance at room temperature if okay. Replace if not in this range. |
| | Ignition | Check for 24VAC output from transformer. |
| | Transformer | Replace if have 120V between black & white and no 24V between red and yellow. |
| | Over temperature | Check to see if manually resettable thermostat. Thermostat is kicked out. Reset by pushing red reset button. |
| | Ignition control | Check for 24VAC coming into the control on the at burner red wire. If voltage, then check for 24VAC out on the brown wire. Also check for spark at the ignitor. If no 24VAC output or no spark to the ignitor, replace ignition control. |
| | Air flow switch | Check air flow switch to be sure it closes when dryer is running. If not, adjust or replace switch. |
| | Hi-limit | Check for continuity. Should be 0 ohms resistance when cold. If not, replace thermostat. |
| | Gas supply | No gas can cause system lockout |
| | Electronic control | Is electronic control closing gas relay to power Control heat circuit? Check for gas light on electronic control. If no light change control. If light is on, check voltage and components in heat circuit at transformer at rear of unit. |

| Symptom | Probable Cause | Suggested Remedy |
|---|---|---|
| **Tumbler turns, ignition sparks, no flame** | Gas supply | Make sure gas supply is working. |
| | Gas pressure | Make manometer check of gas pressure. Adjust if necessary. |
| | Spark electrode sensor | Check for damage to electrode or mounting. Replace if necessary. |
| | Gas valve | Check coil continuity, replace valve if failed. |
| | Ignition Control | Check for 24VAC to gas valve coils. If no voltage replace ignition control. |
| **Burner Lights, but goes on and off** | Electrodes | Check low voltage harness for possible wire break or cuts to allow no signal back to ignition control |
| **Slow drying** | Temperature Setting | Check program for correct high temperature setting. Adjust if necessary. |
| | Air flow restrictions necessary | 1. Check lint screen and clean if necessary.<br>2. Check exhaust for correct length and clean if necessary.<br>3. Check exhaust damper to insure that it opens when dryer is running and closes when dryer is not in use.<br>4. Check makeup air to insure that it is adequate. Increase makeup air if necessary.<br>5. Check static Back pressure no more than .3 |
| | Temperature sensor | The temperature sensor should have between 30,000 ohms and 60,000 ohms resistance at room temperature if okay. Replace if not in this range. |

| Symptom | Probable Cause | Suggested Remedy |
|---|---|---|
| **Erratic display** | Initial start-up | If erratic on initial start-up, leave power on for approximately one hour and check machine operation again. |
| | Grounding | Machine must be grounded by separate conductor back to neutral bar in breaker box. |
| | Program | Check program and make corrections if necessary. |
| | Voltage spike | Power down machine for 20 seconds and repower. If no improvement, replace control. |
| **Manual overtemp tripping frequently** | Recirculating chamber Lint accumulation | Remove manual overtemp thermostat and inspect in chamber for excessive lint build up. Access also gained to this chamber by removing recirculation duct mounted at bottom of chamber, or the panel inside burner chamber between burners and rear back panel |
| | Exhaust ducting Excessive lint buildup | Remove exhaust duct at rear of dryer and inspect for excessive lint build up in complete duct from dryer to where duct exits building. |
| | Clean linto of of top heat air chamber above tumbler | Remove front panel completely. Be careful of any wiring attached. Remove heated air chamber cover and clean above tumbler back to burner housing. |

# Notes

# Notes

# Notes

## Kits, Assemblies, & Common Parts

| Description | T 20x2 |
|---|---|
| LP to Natural Conversion Kit for White Rodgers | 9732-142-004 |
| Kit - 8650-012-004 Lock with spacer | 9732-344-002 |
| Kit - 8650-012-003 Lock with spacer | 9732-344-001 |
| Kit - A to C series Conversion, Black, 24v | 9732-307-004 |
| Kit - A to C series Conversion, Blue, 24v | 9732-307-003 |
| Temperature Probe | 9501-006-001 |
| Controls Blue | 9857-198-002 |
| Controls Black | 9857-198-004 |
| Coin Drop | 9021-092-002 |
| Optical Sensor | 9801-099-001 |
| Coin Drop Screws | 9545-053-002 x4 |
| Ignition Control Box | 9857-182-001 |
| Electrode Assembly, Ignition | 9875-002-003 |
| Thermostat, Hi-Limit | 9576-203-002 |
| Termostat, Overtemp | 9576-207-006 |
| Fuse holder assembly | 9200-001-002 |
| Fuse-1.5a,fast,1/4x1-1/4 | 8636-018-001 |
| Fuse-2.5a,fast,1/4x1-1/4 | 8636-018-004 |
| Motor Run Relay | 5192-299-002 |
| Transformer, Ignition | 8711-013-001 |
| Lint Screen Assembly ONLY (no front) | 9805-036-002 |
| Air Flow Switch | 9536-461-009 |
| Door Switch | 9539-487-001 |
| Motor Belt | 9040-076-012 |
| Tumbler Belt | 9040-073-013 |
| Tension Arm Complete | 9861-022-001 |
| Spider/Trunnion | 9568-018-001 |
| Door Handle | 9244-092-001 |



# Section 7:

## Parts Data

## DC20X2

## 24VAC Control
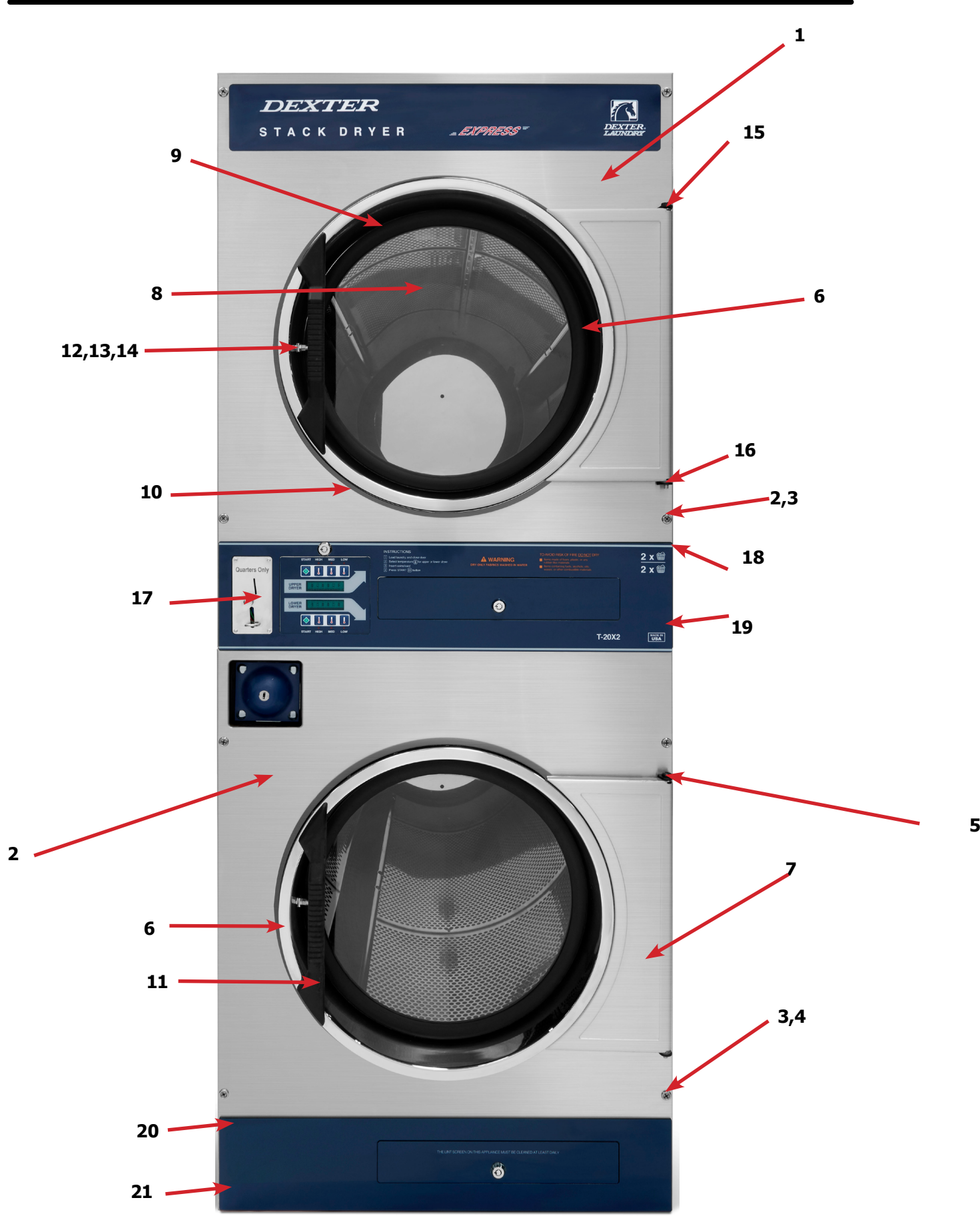
## Dryer Cabinet Group

| Key | Description | T-20x2 | QTY |
|-----|-------------|--------|-----|
| 1 | Panel Assy., Front- Upper (SS) | 9989-610-001 | 1 |
| 2 | Panelassy-front,coin(lower,ss | 9989-611-001 | 1 |
| * | Insulation Front Panel, half moon (top) | 9277-064-001 | 2 |
| * | Insulation Front Panel, half moon (bottom) | 9277-064-002 | 2 |
| 3 | Screw, FLHDCR, 10B x 1 3/4 | 9545-008-014 | 8 |
| 4 | Washer, Finish, #10 | 8641-585-001 | 8 |
| * | Nut, Spring | 8640-399-001 | 8 |
| * | Hinge ,Backup Plate | 9982-392-001 | 2 |
| * | Screw, Countersink, 10-32X 1/2 | 9545-012-003 | 4 |
| 5 | Strap, Hinge (SS/Black) | 9544-074-002 | 2 |
| * | Screw, Hinge to Panel | 9545-012-028 | 8 |
| 6 | Door Assy., Loading Complete-Chrome/BLK/SS | 9960-315-002 | 2 |
| * | Door Assy., Loading-Chrome (Ring Only) | 9960-314-003 | 2 |
| 6 | Door Assy., Loading Complete-SS/BLK/SS | 9960-315-001 | 2 |
| * | Door Assy., Loading-SS (Ring Only) | 9960-314-001 | 2 |
| 7 | Plate Assy., Hinge (SS) | 9982-393-001 | 2 |
| * | Screw, Hinge to Door | 9545-012-015 | 8 |
| * | Nut, Hinge to Door | 8640-413-002 | 8 |
| * | Cover, Hinge Plate | 9074-377-002 | 2 |
| * | Screw, Phillips-10B x 3/8 | 9545-008-010 | 4 |
| 8 | Glass, Door | 9212-002-005 | 2 |
| 9 | Gasket, Glass Black | 9206-413-003 | 2 |
| * | Support, Door Glass | 9548-117-000 | 4 |
| * | Tool Install Dryer Door Gasket | 8545-064-001 | 1 |
| 10 | Gasket, Outer Rim Black | 9206-420-006 | 2 |
| 11 | Handle, Loading Door | 9244-092-001 | 2 |
| * | Screw, Handle 1/4-20 x 3/8 | 9545-018-017 | 4 |
| 12 | Stud, Door Catch, 7/8 | 9531-033-002 | 2 |
| 13 | Nut, Hex | 8640-413-001 | 2 |
| 14 | Nut, Acorn | 8640-413-003 | 2 |
| * | Catch, Loading Door | 9086-015-002 | 2 |
| * | Pop Rivet for mtg. catch | 8638-190-009 | 4 |
| 15 | Screw, Door to Hinge Strap (Special Black Type) | 9545-052-001 | 2 |
| 16 | Washer, Fiber | 8641-436-003 | 2 |
| 17 | Acceptor, Coin | 9021-092-002 | 1 |
| * | Retainer, Coin Acceptor | 9486-149-001 | 2 |
| * | Screw, 4Bx5/8ss, T10 | 9545-053-002 | 4 |
| * | Switch, Optical | 9801-099-001 | 1 |
| 18 | Escutcheonassy-dry,coin,upr | 9994-043-001 | 1 |
| 19 | Overlay-esc,t-20x2,up,coin,blu | 9435-058-002 | 1 |
| * | Overlay-esc,t-20x2,up,coin,black | 9435-058-001 | 1 |
| * | Screw, #4-40 x 3/16 | 9545-020-009 | 23 |
| 20 | Escutcheonasy-dry,coin/opl,lwr | 9994-045-001 | 1 |
| 21 | Overlay-escut,t-20x2,lwr,blue | 9435-060-002 | 1 |
| * | Overlay-escut,t-20x2,lwr,black | 9435-060-001 | 1 |

## Cabinet Group Continued

| Key | Description | T20X2 | QTY |
|-----|-------------|-------|-----|
| 22 | Nameplate Stack Dryer Express Blue | 9412-251-002 | 1 |
| 22 | Nameplate Stack Dryer Express Black | 9412-251-001 | 1 |
| 23 | Lint Drawer Assembly Blue | 9866-008-001 | 1 |
| 23 | Lint Drawer Assembly Black | 9866-008-003 | 1 |
| * | Drawer, Front | 9974-016-002 | 1 |
| * | Washer, Flat, #10 | 8641-581-006 | 2 |
| * | Washer, Curved-Spring | 8641-569-004 | 2 |
| * | Nut, 10-32 | 8640-413-007 | 2 |
| 24 | Overlay Trim, Lint Drwr-Blue | 9435-053-002 | 1 |
| 24 | Overlay Trim, Lint Drwr-Black | 9435-053-001 | 1 |
| * | Felt Seal (back of lint screen assembly) | 9532-074-004 | 1 |
| * | Lint Screen Assembly ONLY (no front) | 9805-036-002 | 1 |
| * | Replaceable Lint Screen Only | 9555-057-011 | 1 |
| 25 | Lock and Key, Lint Drawer | 8650-012-004 | 1 |
| * | Key 6101 only | 6292-006-010 | 1 |
| * | Cam, Lock | 9095-043-001 | 1 |
| * | Lint Screen Strap Hold Down Screws 10Bx 1/4 | 9545-008-001 | 12 |
| 26 | Controls Assy, 24VAC, Blue | 9857-198-002 | 1 |
| 26 | Controls Assy, 24VAC, Black | 9857-198-004 | 1 |
| * | Wireharness-main,dry,t-20x2 | 9627-953-004 | 1 |
| 27 | Lock and Key, Control | 8650-012-003 | 1 |
| * | Cam, Lock | 9095-041-001 | 1 |
| * | Washer-flat,shim | 8641-581-010 | 2 |
| * | Washer-flat | 8641-581-041 | 1 |
| * | Key only 6324 | 6292-006-007 | 1 |
| 28 | Sensor Temp Control | 9501-006-001 | 2 |
| * | Wiringharness-heatsensor | 9627-855-003 | 1 |
| * | Wire Nut Connector Grey | 8640-276-002 | 4 |
| 29 | Bracket-mtg,lintdrawerswitch | 9029-297-001 | 2 |
| 30 | Switch-door,lowerservice | 9539-487-001 | 2 |
|  | Grommet-wire, 1/2 I.d" | 9209-089-001 | 2 |
|  | Plug-plastic,5/8" | 9456-041-010 | 2 |
|  | Screw-hxwshrhdundct,#10bx1/2 | 9545-008-026 | 4 |
| 31 | Cover, Cabinet (Top) | 9074-374-001 | 1 |
| * | Insulation Cabinet Cover | 9277-041-028 | 1 |
| * | Insulation-side Panel | 9277-041-027 | 2 |
| * | Stack Dryer Trunion Puller | 8545-060-002 | 1 |
| 32 | Vault, Coin Box | 9942-038-005 | 1 |
| * | Plateasy-coinvaultmounting | 9982-338-001 | 1 |
| * | Screws, Mounting-Coin Vault | 9545-008-024 | 2 |
| 33 | Coin Box Assy, Large Blue | 9807-099-002 | 1 |
| 33 | Coin Box Assy, Large Black | 9807-099-004 | 1 |
| * | Cabinet Touch Up Paint (White) | 9472-001-013 | 1 |
| * | Leg, Leveling 1/2" | 8544-006-001 | 4 |
| * | Leveling Leg Wrench | 8545-061-002 | 1 |
| * | Nut, Elastic Stop | 8640-413-004 | * |
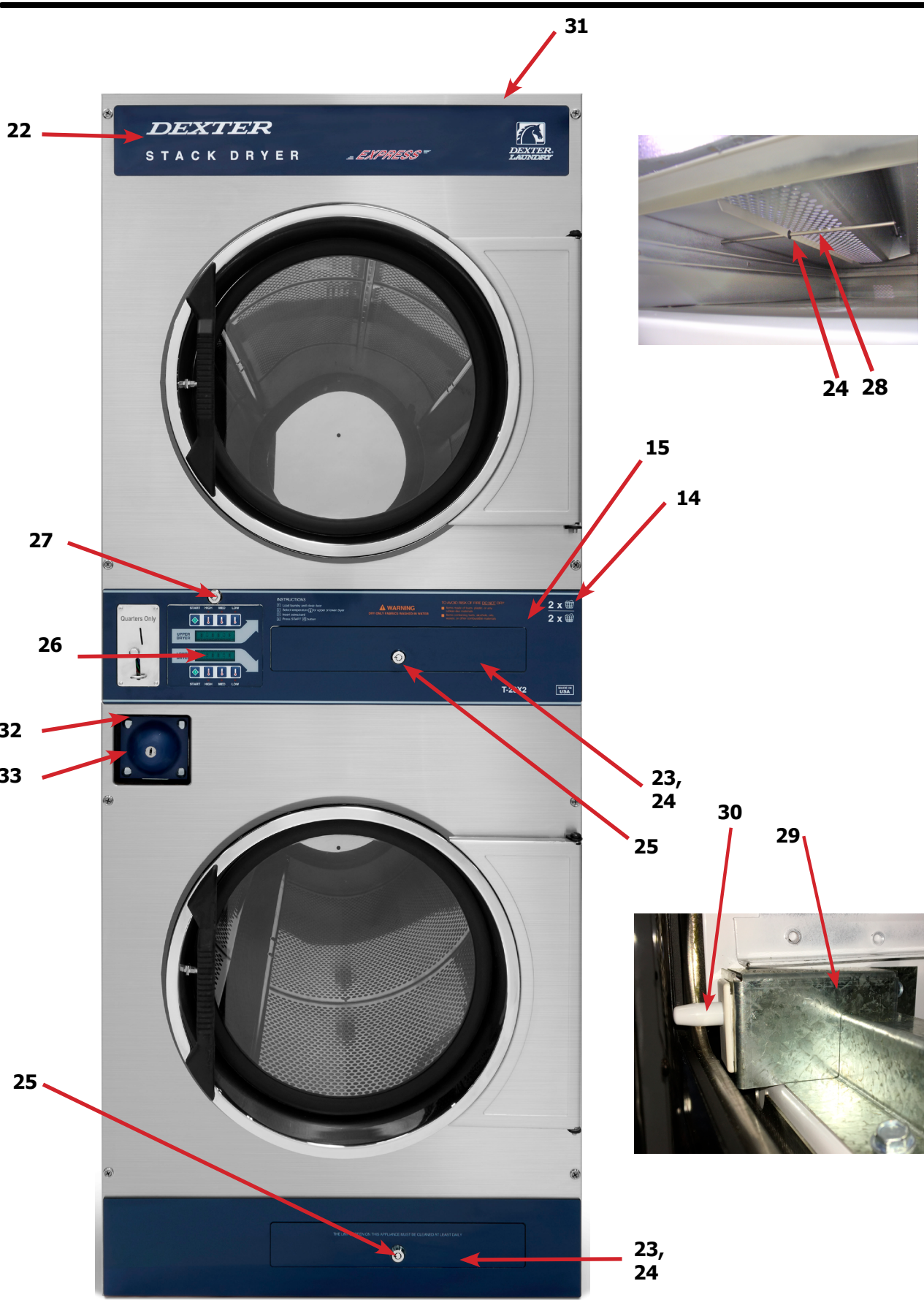
# Modular Cabinet Group (After Serial D1.24108.008)

| Key | Part Number | Description | Quantity |
|---|---|---|---|
| 1 | 9945-173-001 | Cabinet Base Assembly.................................................... | 1 |
| * | 9989-767-002 | Back Panel Assembly ..................................................... | 2 |
| 2 | 9989-768-003 | Lower RH Side Panel Assembly ...................................... | 1 |
| 3 | 9989-768-004 | Lower LH Side Panel Assembly....................................... | 1 |
| 4 | 9750-027-001 | RH Lint Rail Guide Assembly .......................................... | 2 |
| 5 | 9750-028-001 | LH Lint Rail Guide Assembly .......................................... | 2 |
| 6 | 9046-109-001 | Lower Baffle Brace ........................................................ | 2 |
| 7 | 9049-137-001 | RH Baffle ....................................................................... | 2 |
| 8 | 9049-138-001 | LH Baffle ....................................................................... | 2 |
| * | 9489-064-001 | Baffle Reinforcement .................................................... | 4 |
| * | 9029-378-001 | Sensor Bracket.............................................................. | 2 |
| 9 | 9029-371-001 | Angled Baffle Bracket ................................................... | 4 |
| 10 | 9870-104-001 | Heat Chamber Assembly................................................ | 2 |
| 11 | 9029-373-001 | Heat Chamber Bracket................................................... | 2 |
| 12 | 9444-137-001 | Intermediate Panel........................................................ | 1 |
| 13 | 9444-136-003 | RH Side Panel ............................................................... | 1 |
| 14 | 9444-136-004 | LH Side Panel ............................................................... | 1 |
| 15 | 9046-110-001 | Top Cabinet Brace......................................................... | 1 |
| * | 9491-009-001 | Rivet-Blind 3/16 Steel ..................................................152 |  |
| * | 9491-009-005 | Rivet-Blind 3/16 White Painted ...................................... | 44 |
| * | 9545-008-024 | Screw-10abx3/8 ...........................................................18 |  |
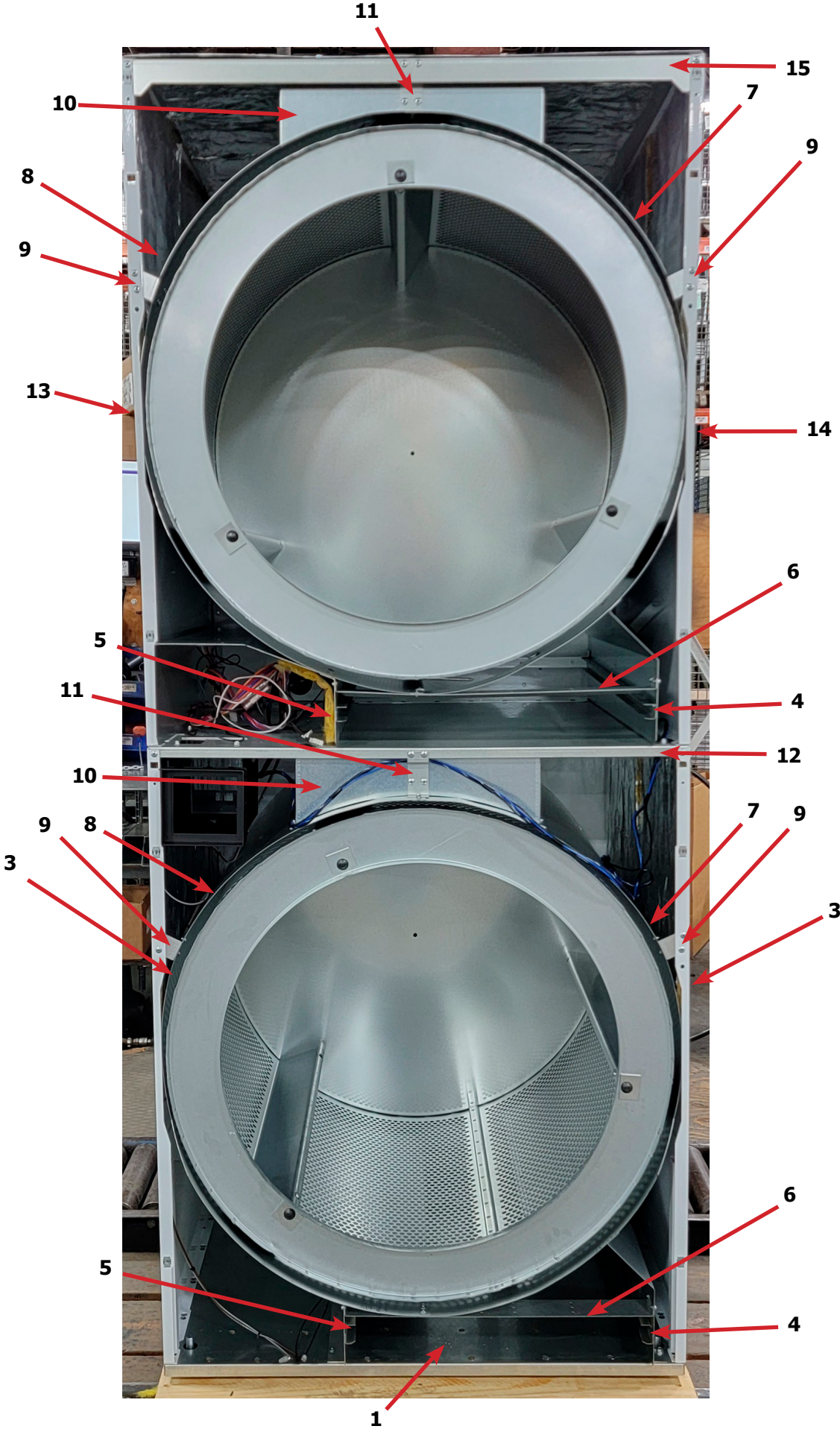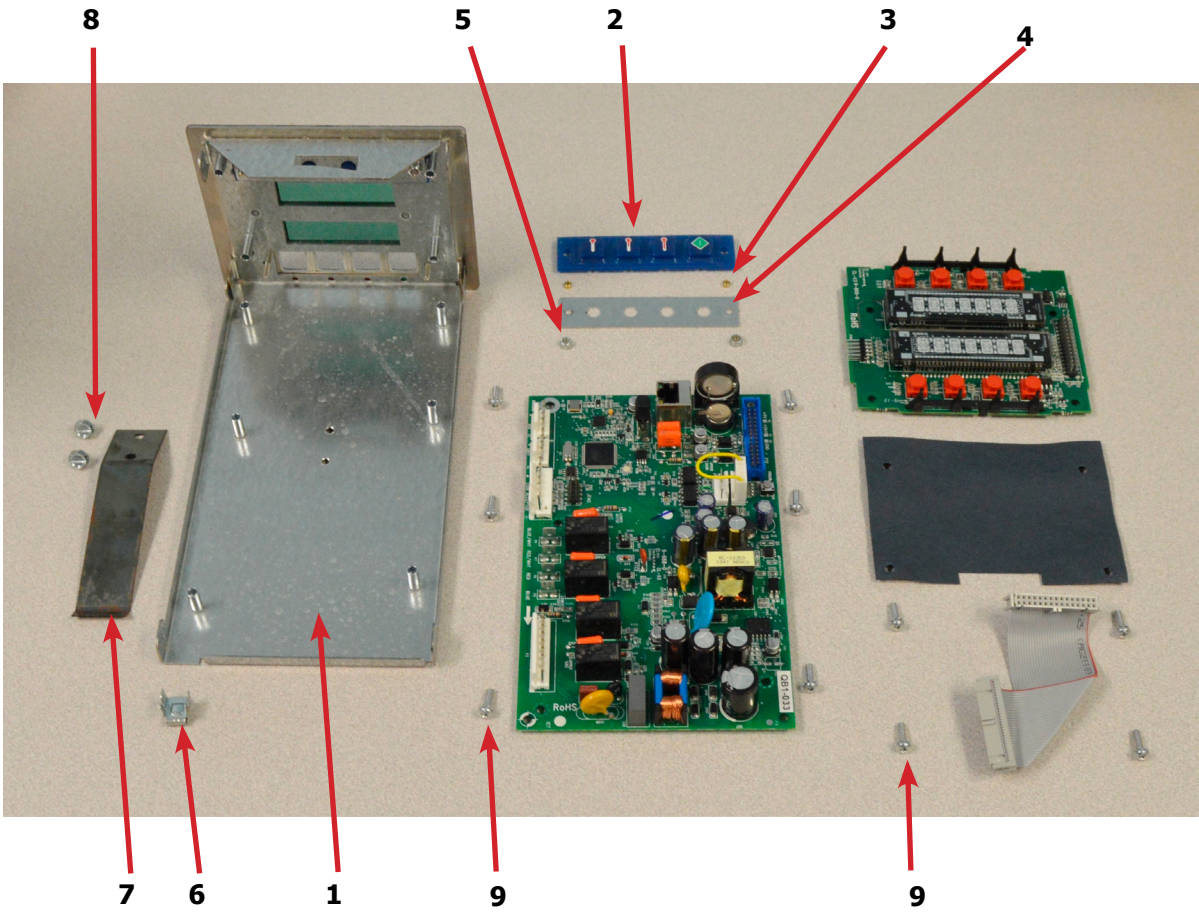
# Control Parts

| Key | Description | Part Number | Qty |
|-----|-------------|-------------|-----|
| * | Controls Assy, 24V, BLU | 9857-198-002 | 1 |
| * | Controls Assy, 24V, BLk | 9857-198-004 | 1 |
| 1 | Trough Assembly | 9826-008-001 | 1 |
| 2 | Button-Push, Control, Black | 9035-062-002 | 2 |
| 2 | Button-Push, Control, Blue... | 9035-062-001 | 2 |
| 3 | Spacer-Metal, 4mm | 9538-166-011 | 4 |
| 4 | Retainer-Push Button | 9486-158-001 | 2 |
| 5 | Nut-Hex, Elastic stop, #4-40 | 8640-424-002 | 4 |
| 6 | Terminal-Grounding clip | 8652-130-038 | 1 |
| 7 | Spring-Flat, Control | 9534-365-001 | 1 |
| 8 | Screw-Hex, #10B x 1/4 | 9545-008-001 | 2 |
| 9 | Screw-panhead 6-32 uncx 1/2 | 9545-044-010 | 10 |
| 9 | Washer-External tooth, #6 | 8641-582-005 | 10 |
| 10 | Overlay-Control, Coin, Black | 9435-038-001 | 1 |
| 10 | Overlay-Control, Coin, Blue | 9435-038-002 | 1 |
| 11 | Acceptor-Coin, Optical | 9021-092-002 | 1 |
| * | Retainer, Coin Acceptor | 9486-149-001 | 1 |
| 12 | Screw | 9545-053-002 | 4 |
| * | Optical Sensor, Replacement | 9801-099-001 | 1 |
| * | Wire Assy, Jumper, 30Lb Stack Coin | 8220-155-001 | 1 |
| * | Wire Assy, Jumper, 50Lb Stack Coin | 8220-155-002 | 1 |
| * | Wire Assy, Jumper, 20Lb Stack Coin | 8220-155-009 | 1 |
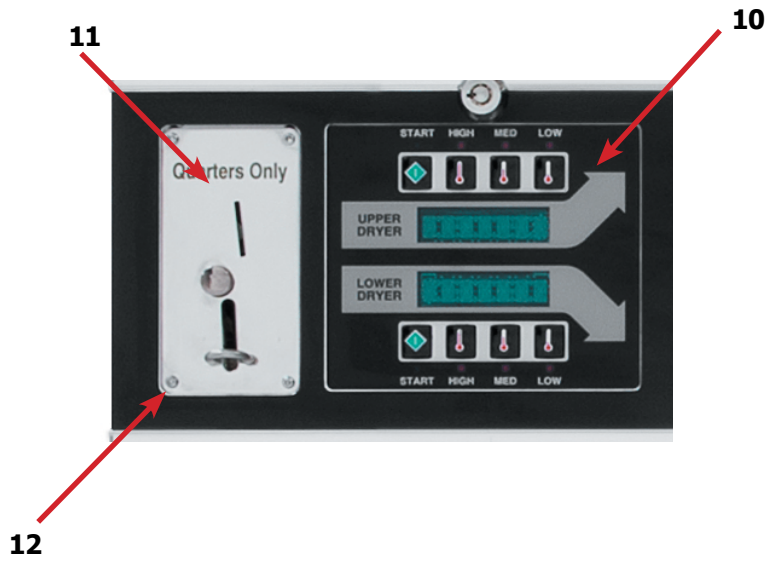
## Door Switch Group

| Key | Description | T-20x2 | QTY |
|-----|-------------|--------|-----|
| 1 | Door Switches | 9539-487-001 | 2 |
| 2 | Bracket-Mounting lint tray switch | 9029-297-001 | 2 |
| 3 | Grommet Wire 1/2 i.d. | 9029-089-001 | 2 |
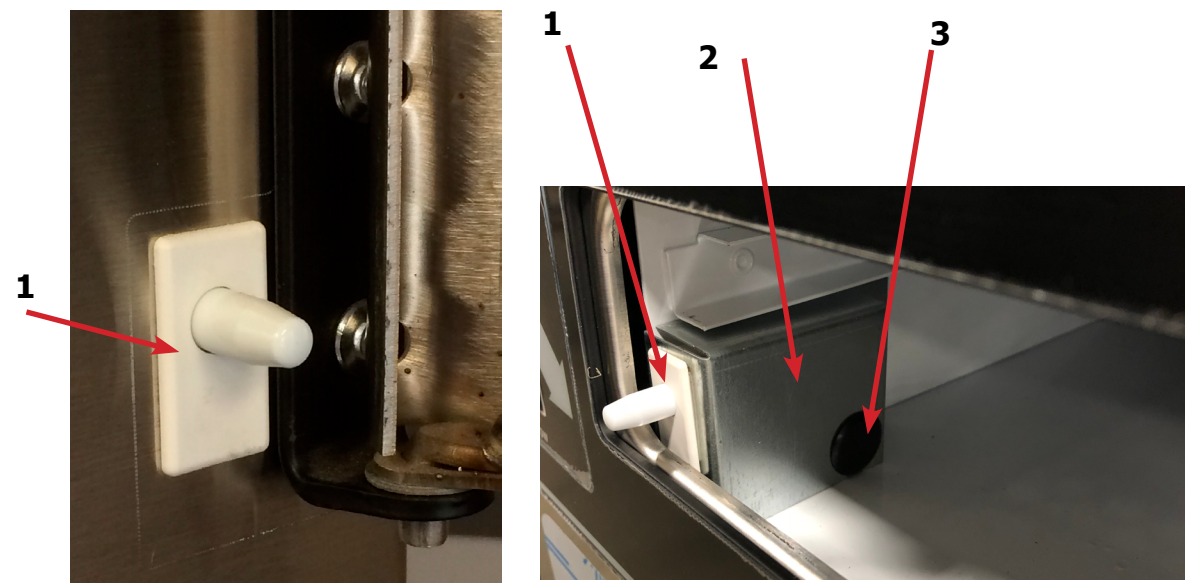


## Hinge Plate Cover

| Key | Description | T-20x2 | QTY |
|-----|-------------|--------|-----|
| 1 | Cover-Hinge, Black | 9074-377-002 | 1 |
| 2 | Screw-TRHDCR, 10B x 3/8, Black | 9545-008-010 | 2 |
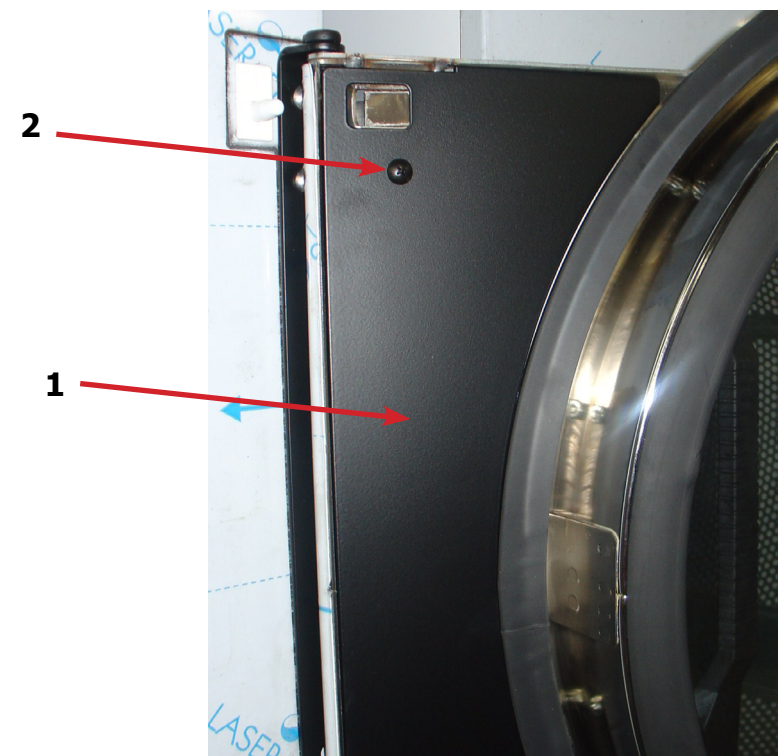


## Notes

# Bearing Housing Group

| Key | Description | T-20x2 | | QTY |
|-----|-------------|--------|---|-----|
| | Bearing Housing Complete Assy (Includes bearings & Spacer) | 9803-160-003 | | 2 |
| 1 | Housing, Bearing | 9241-161-002 | | 2 |
| * | Spacer, Bearing | 9538-139-002 | | 2 |
| 2 | Bearing, Ball, Front & Rear | 9036-130-001 | | 4 |
| 3 | Screw-Wizlock, 3/8-24x3/4 | 9545-049-002 | | 8 |
| 4 | Nut, 5/16-18 | 8640-400-002 | | 8 |
| 5 | Screw, 3/8-24x1 | 9545-049-001 | | 4 |
| 6 | Nut, 3/8-24 | 8640-415-002 | | 4 |
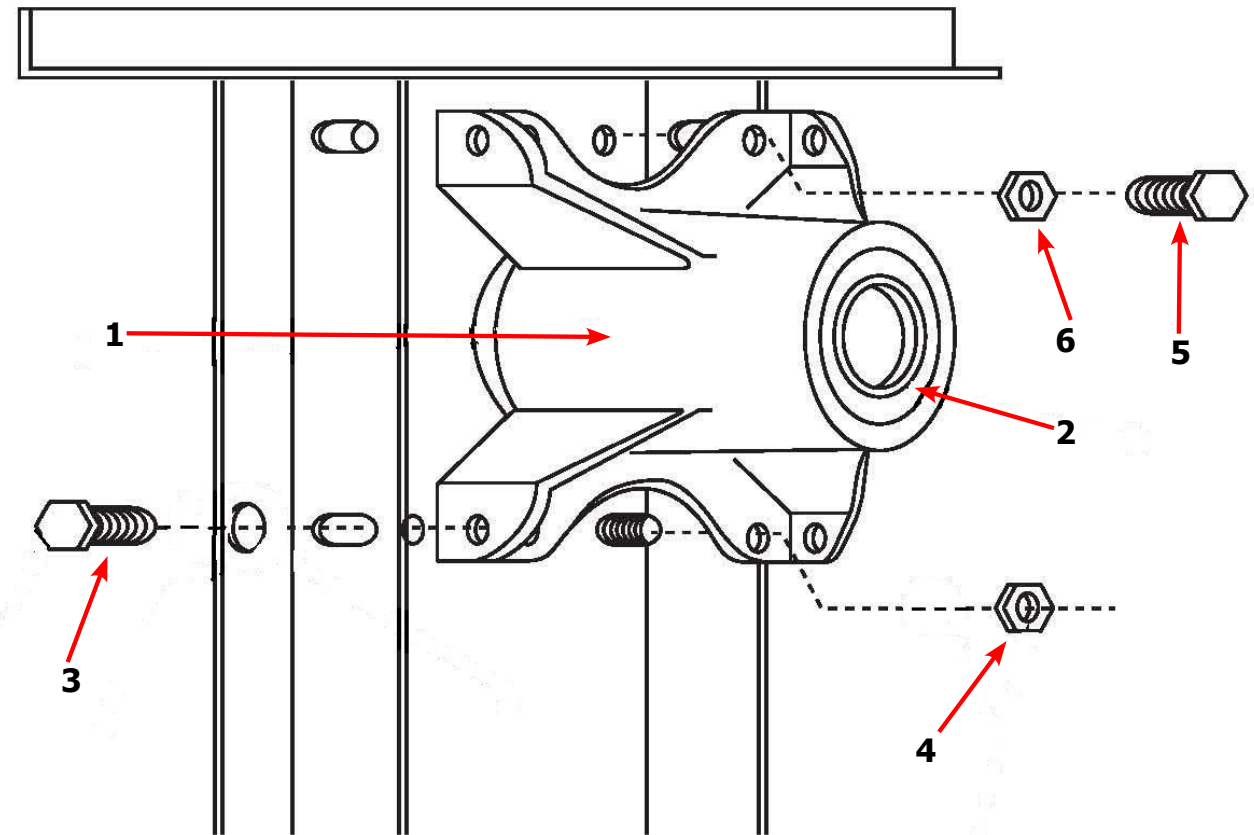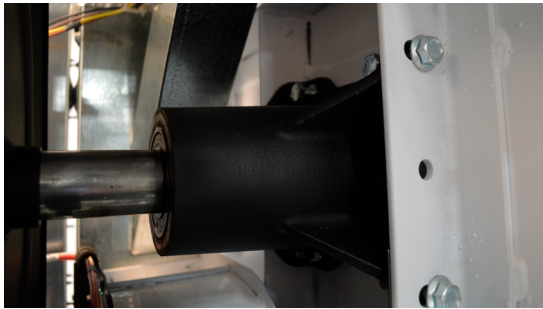
# Tumbler Group

| Key | Description | T-20x2 | QTY |
|-----|-------------|--------|-----|
| * | Tumbler Assy Complete W/Spider (GALV) | 9848-156-001 | 2 |
| 1 | Tumbler Assy (Galvinized) | 9848-155-001 | 2 |
| * | Tumbler Assy Complete W/Spider (SS & Galv front) | 9848-156-002 | 2 |
| 1 | Tumbler Assy (Stainless Galvinized front) | 9848-155-002 | 2 |
| 2 | Rod, Tumbler | 9497-019-004 | 6 |
| 3 | Washer, Special | 8641-554-001 | 6 |
| 4 | Shim | 9552-013-003 | AR |
| 5 | Spider Assy | 9568-018-001 | 2 |
| 6 | Nut, Wiz Lock | 8640-415-004 | 6 |
| 7 | Spacer-Shaft | 9538-164-001 | 2 |
| 8 | Tolerance Ring | 9487-234-005 | 2 |
| 9 | Pulley, Driven | 9908-052-002 | 2 |
| 10 | Washer -Flat 1/2 | 8641-581-026 | 2 |
| 11 | LockWasher - IntTooth, 1/2" | 8641-582-016 | 2 |
| 12 | Screw, 1/2-13x1 1/4 | 9545-017-009 | 2 |
| * | Belt, Drive | 9040-073-013 | 2 |
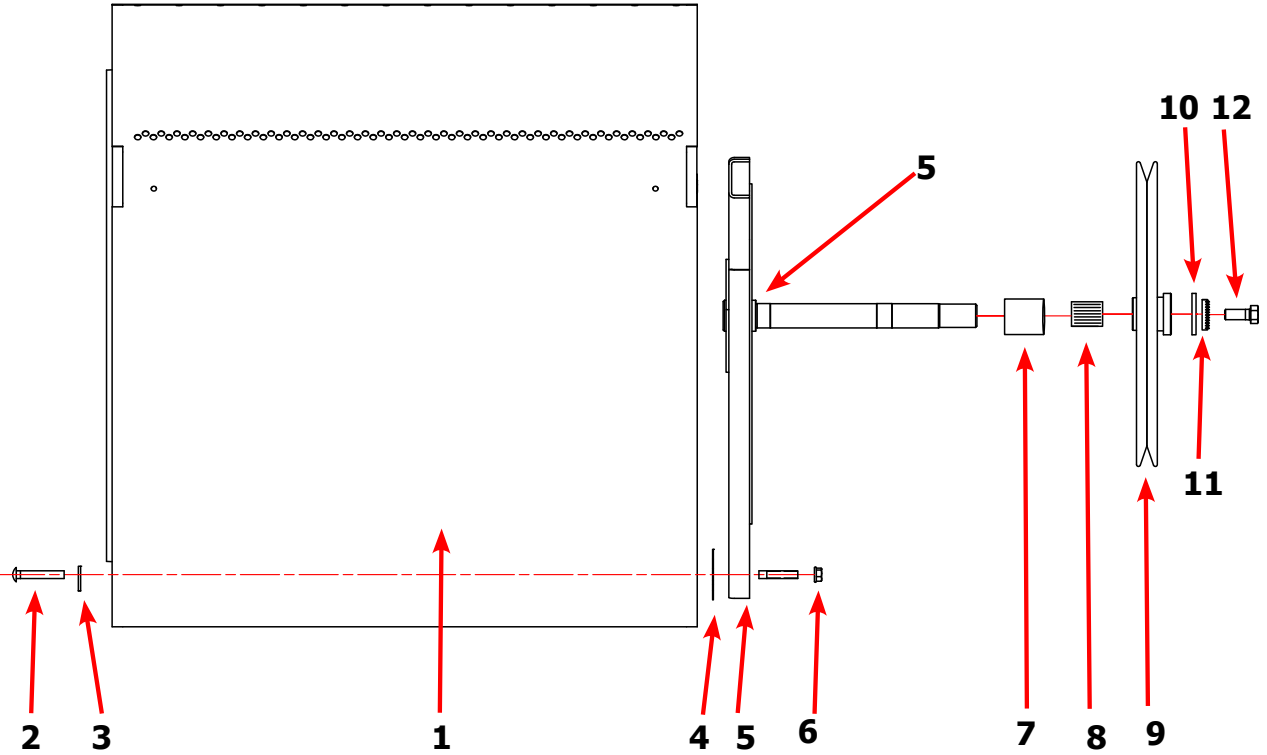
# Dryer Burner Housing Group

| Key | Description | T-20X2 | QTY |
|-----|-------------|--------|-----|
| * | Housing Assembly, Burner (All sheet metal parts not listed) Upper | 9803-221-001 | 1 |
| * | Cover Burner upper | 9074-373-001 | 1 |
| * | HOUSING ASSEMBLY - BURNER, LOWER | 9803-221-002 | 1 |
| 1 | Panel, Back Burner Housing | 9454-949-001 | 2 |
| 2 | Screw, 10B X 1/4" | 9545-008-001 | 8 |
| 3 | Angle, Burner Support | 9003-220-001 | 2 |
| * | Screw, 10B x 3/8" | 9545-008-006 | 4 |
| 4 | Burner, Main | 9048-023-001 | 4 |
| * | Screw 10AB x 3/8" | 9545-008-006 | 4 |
| 5 | Electrode-ignition | 9875-002-003 | 2 |
| 6 | Screw, Electrode Mtg 8B x 1/4" | 9545-045-001 | 4 |
| 7 | Pipeassembly-gas,t-20x2 | 9838-018-004 | 2 |
| 7 | Gas Pipe Assembly Replacement Kit | 9732-360-001 | * |
| 7 | Gas Pipe Assembly (After Serial) | 9838-023-001 | 2 |
| * | Fitting - 1/2 NPT Union Adapter | 8615-120-001 | * |
| 8 | Control Assy, Gas (Honeywell) | 9857-134-001 | 2 |
| 8 | Control Assy, Gas (White Rodgers) | 9857-192-001 | 2 |
| 9 | Wireasy-yel,47/8" | 8220-001-466 | 2 |
| 10 | Manifold, Assy | 9381-012-001 | 2 |
| * | Orifice, Burner-Natural #40 | 9425-069-030 | 4 |
| * | Orifice, Burner-LP #54 | 9425-069-031 | 2 |
| 11 | Bracket, Manifold | 9029-305-001 | 2 |
| 12 | Pipe Plug in end of Burner Manifold | 8615-104-045 | 2 |
| * | Screw, 10AB x 3/8" | 9545-008-006 | 4 |
| 13 | Bracket, High Limit Thermostat | 9029-192-001 | 2 |
| 14 | Thermostat, Hi-Limit | 9576-203-002 | 2 |
| * | Spacer, Hi-Limit | 9538-142-001 | 4 |
| * | Screw 8B x 3/4" | 9545-045-007 | 4 |
| 15 | Cover, Hi-Limit Stat | 9074-329-001 | 2 |
| * | Screw, 10AB x 3/8" | 9545-008-006 | 4 |
| 16 | Thermostat, Safety Shutoff | 9576-207-006 | 2 |
| 17 | Screw, 10AB x 3/8" | 9545-008-006 | 4 |
| * | Control, Ignition Fenwall (3 trybox) | 9857-182-001 | 2 |
| * | Kit, LP Conversion (Honeywell) | 9732-102-034 | 2 |
| * | Kit, LP Conversion (White Rodgers) | 9732-102-043 | 2 |

| Key | Description | T-20x2 | QTY |
|-----|-------------|--------|-----|
| * | Switch Assy, Air Flow | 9801-095-001 | 2 |
| 1 | Switch, Air Flow | 9539-461-009 | 2 |
| 2 | Bracket, Switch- Air Flow | 9029-174-001 | 2 |
| 3 | Actuator, Switch | 9008-007-001 | 2 |
| 4 | Pin, Cotter | 9451-169-002 | 2 |
| 5 | Screw 4-40 x 5/8" | 9545-020-001 | 4 |
| * | Nut, Special Twin .#4-40 | 8640-401-001 | 2 |
| * | Shield, Switch | 9550-169-003 | 2 |
| * | Screw 10 Bx 1/4" | 9545-008-001 | 3 |
| 6 | Motor, Drive | 9376-332-001 | 2 |
| * | Run Capacitor | 5191-108-004 | 2 |
| * | Start Capacitor | 5191-109-004 | 2 |
| * | Pulley-motor,60hz | 9453-185-001 | 2 |
| * | Screw-set,5/16-18x1/2 | 9545-028-013 | 2 |
| 7 | Plate, Motor Mtg | 9982-390-002 | 2 |
| 8 | Screw, Motor to Plate Screw-hxflgwhzlk,5/16-18x5/8 | 9545-014-004 | 8 |
| * | Nut-hextwinwhzlk,5/16-18 | 8640-400-003 | 8 |
| 9 | Nut 1/4x20 Motor Plate to Cabinet | 8640-414-007 | 14 |
| 10 | Clamp-cable,3/4 | 8654-125-004 | 4 |
| * | Screw-hxhdsltdmach,12abx1/2 | 9545-048-001 | 4 |
| 11 | SupportAssy, Intermed. Pulley | 9991-053-002 | 2 |
| 12 | Bolt, Rd Hd 3/8-16 x 1 1/4 | 9545-029-010 | 6 |
| 13 | Bolt, 3/8-16 x 1 1/2 | 9545-029-012 | 2 |
| 12 | Nut Flange Wiziock 3/8" - 16 | 8640-415-004 | 6 |
| * | Washer, Flat | 8641-581-035 | 2 |
| 14 | Arm Assy-Tension, Complete | 9861-022-001 | 2 |
| * | Washer, Flat | 8641-581-035 | 4 |
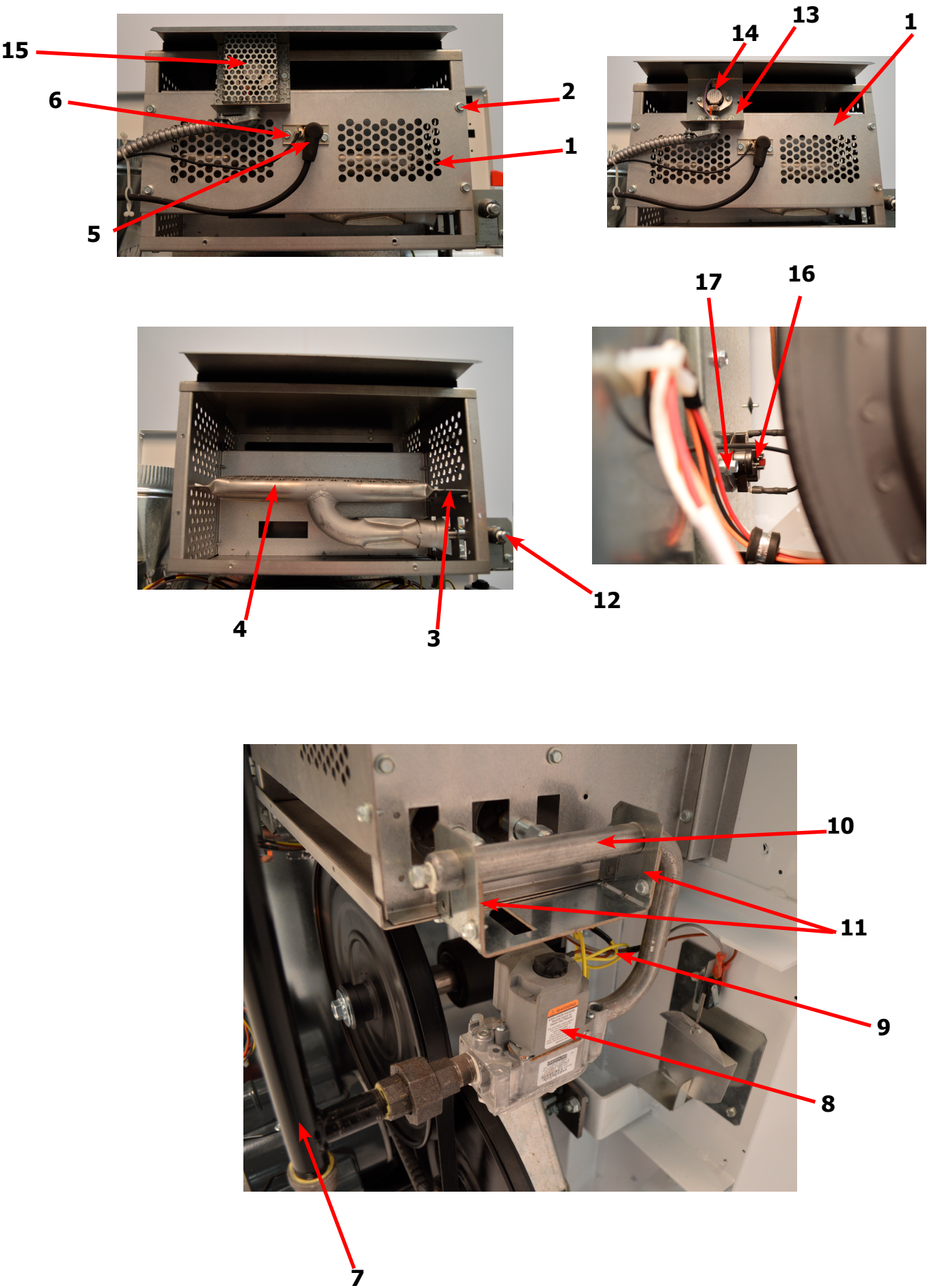
## Rear View Photos
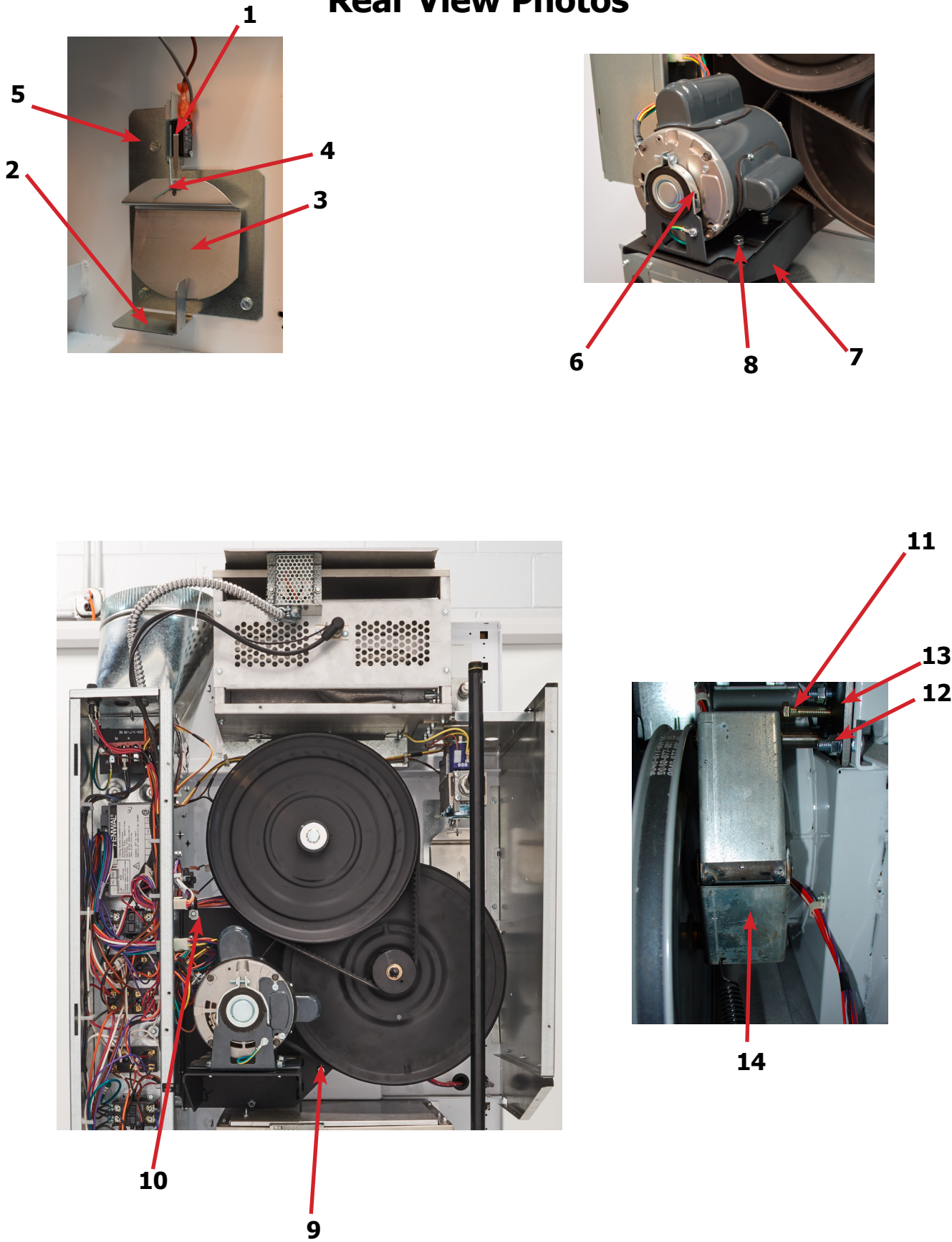
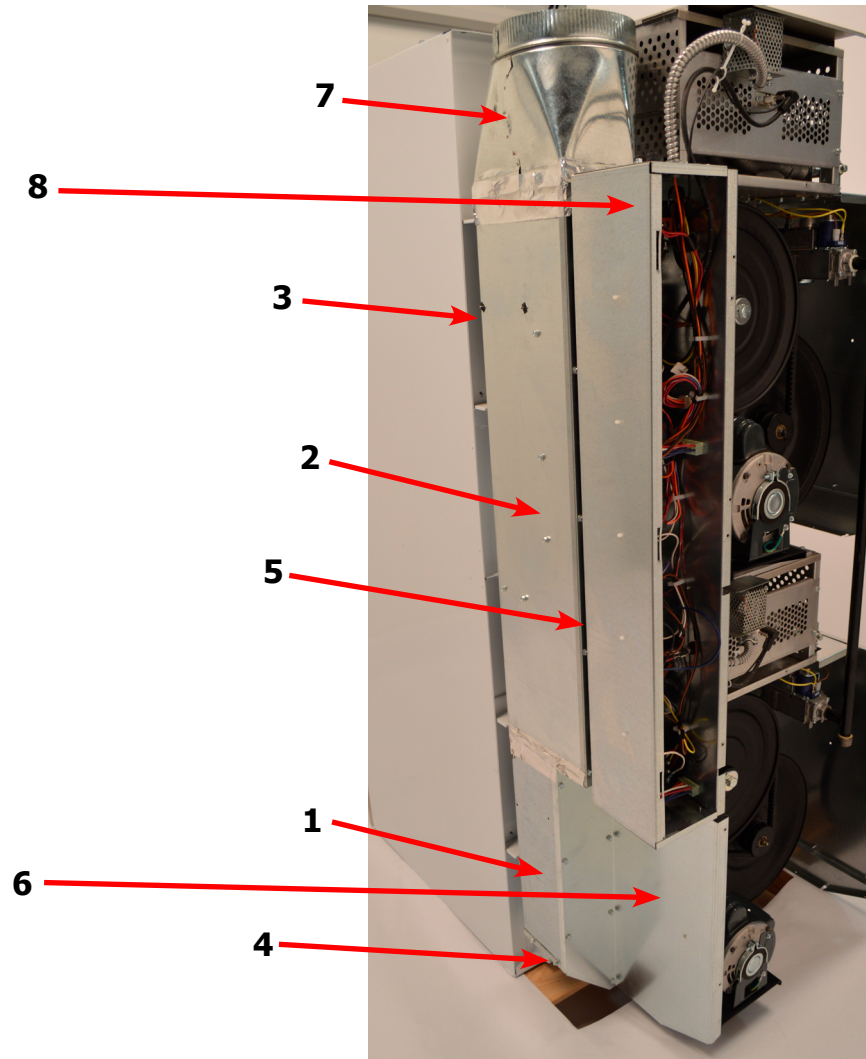| Key | Description | T-20x2 | QTY |
|-----|-------------|--------|-----|
| 14 | Arm Assy-Tension, Complete | 9861-022-001 | 2 |
| * | Washer, Flat | 8641-581-035 | 6 |
| 15 | Ring-Retaining | 9487-200-003 | 6 |
| 16 | Pulley Assy, Intermediate with bronze flange bearing | 9908-053-003 | 2 |
| * | Bearing - Bronze Flange | 9036-145-002 | 2 |
| * | Spacer-Shaft (See Tumbler Group for Expandrd View) | 9538-164-001 | 2 |
| * | Tolerance Ring | 9487-234-005 | 2 |
| 17 | Pulley, Driven | 9908-052-002 | 2 |
| 18 | Washer -Flat | 8641-581-026 | 2 |
| 18 | LockWasher - IntTooth, 1/2" | 8641-582-016 | 2 |
| 18 | Screw, 1/2-13x1 1/4 | 9545-017-009 | 2 |
| 19 | Belt, Drive- Motor | 9040-076-012 | 2 |
| 20 | Belt, Drive- Tumbler | 9040-073-013 | 2 |
| 21 | Spring, Tension | 9534-319-002 | 2 |
| 22 | Chain, Tension | 9099-012-011 | 2 |
| 23 | Hook, Tension | 9248-022-002 | 2 |
| * | Damper Inside Duct Exhaust | 9125-009-001 | 2 |
| 24 | Pin, Damper Hinge | 9451-146-007 | 2 |
| * | Box-duct.lower | 9041-113-001 | 1 |
| * | Nut, Spring | 8520-141-000 | 4 |
| * | Screw #10B x 1/2 | 9545-008-026 | 4 |
| * | Cover Duct Upper | 9074-382-001 | 1 |
| * | Base Duct | 9047-121-001 | 1 |
| * | Screw 10ABx 3/8" | 9545-008-024 | 40 |
| 26 | Impeller, W/Set Screws | 9278-045-001 | 2 |
| 27 | Pulley, Motor | 9453-185-001 | 2 |
| 28 | Bracket for Wire Harness Under Burner Housing | 9029-291-001 | 2 |

## Rear View Photos
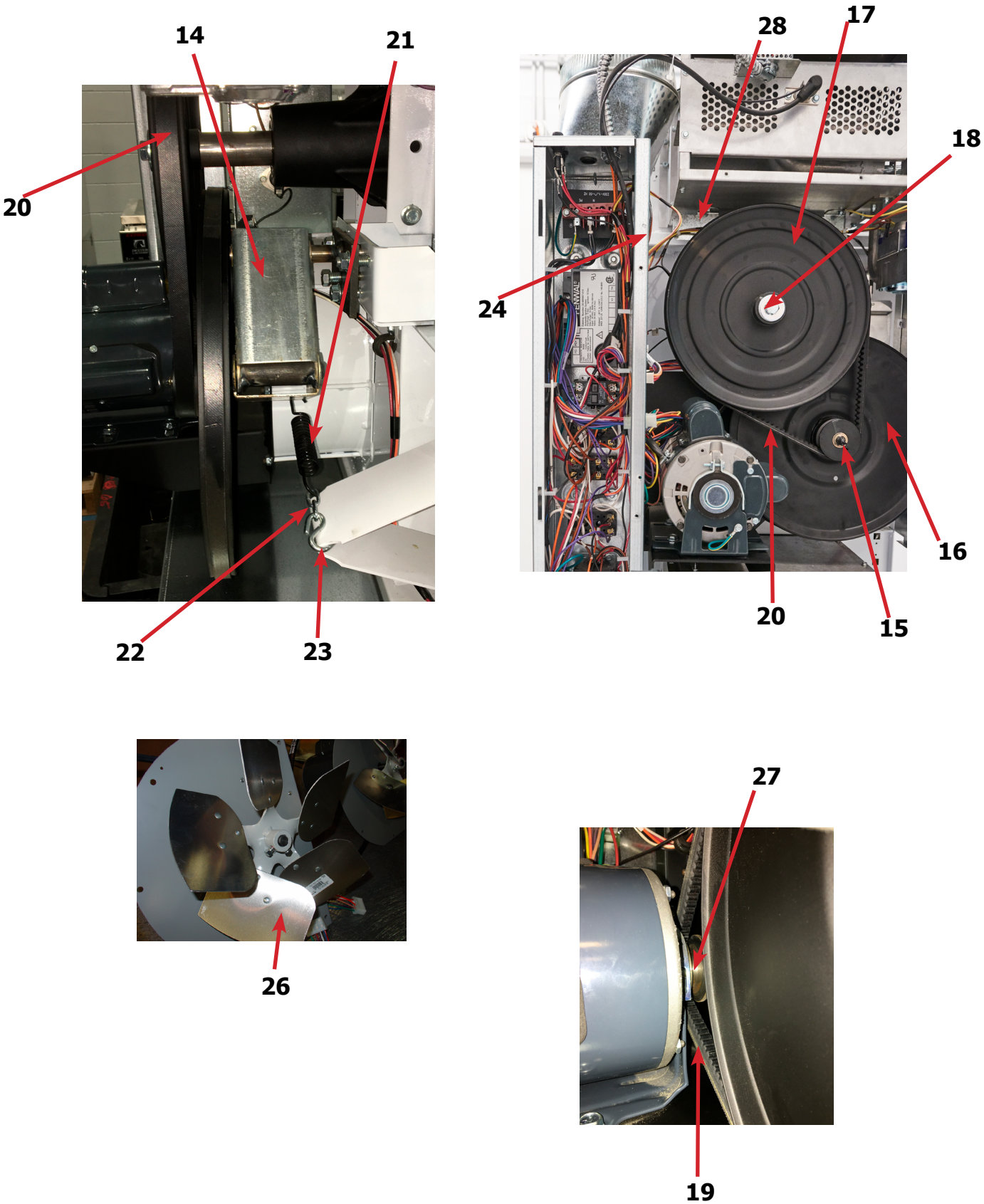
# Dryer Back Panels and Guards

| Key | Description | Part Number | Qty |
|-----|-------------|-------------|-----|
| 1 | Guard, Drive | 9208-144-001 | 2 |
| 2 | Screw, 10AB x 3/8 | 9545-008-024 | 39 |
| 3 | Panel, Drive Guard, | 9208-131-001 | 3 |
| 4 | Guard-Small, upper | 9208-134-001 | 1 |
| 5 | Guard-Small,lower | 9208-143-001 | 1 |
| 6 | Guard-side,lower | 9208-132-001 | 2 |
| 7 | Warning, Label | 8502-763-001 | 1 |
| 8 | Label, Instructions | 8502-645-001 | 1 |
| 9 | Lighting and Clearance, Label | 8527-112-001 | 1 |
| 10 | Duct, Transition | 9109-131-001 | 1 |
| 11 | Door, Cover-Control Box | 9108-146-001 | 1 |
| * | Screw-hxwshrundrcuthd,10abx3/8 | 9545-008-024 | 3 |
| 12 | Cabinet, Cover | 9074-374-001 | 1 |
| * | Insulation | 9277-041-028 | 1 |
| * | Wiring Diagram & Schematic | 9506-836-001 | 1 |
| 13 | Bracket-back Panel | 9029-211-001 | 1 |
| * | Screw, 10AB x 3/8 | 9545-008-024 | 2 |
| 14 | Label-quality | 8511-001-002 | 1 |
| 15 | Cover-hi Limit | 9074-329-001 | 2 |
| 16 | Housingassy-burner,upper | 9803-221-001 | 1 |
| 17 | Housingassy-burner,lower | 9803-221-002 | 1 |
| 18 | Cover-duct,lower | 9074-383-001 | 1 |
| * | 8" Slide Open Clean Out Duct (Optional) | 9973-034-001 | 1 |

| Key | Description | T-20x2 | QTY |
|---|---|---|---|
| 1 | Box-duct.lower | 9041-113-001 | 1 |
| 2 | Box-duct,upper | 9041-115-001 | 1 |
| * | Screw-hxwshrhdundct,#10bx1/2 | 9545-008-026 | 8 |
| * | Baffle-duct | 9049-117-001 | 1 |
| * | Deflector-duct | 9114-054-001 | 1 |
| 3 | Damper-duct | 9125-009-001 | 2 |
| * | Pin-hinge,damper | 9451-146-007 | 2 |
| * | Nut-spring | 8520-141-000 | 4 |
| * | Screw-hxwshrhdundct,#10bx1/2 | 9545-008-026 | 4 |
| * | Gasket-exhaust,1/8x1/4 | 9206-428-002 | 1 |
| 4 | Base-duct | 9047-121-001 | 1 |
| 5 | Cover-duct,upper | 9074-382-001 | 1 |
| 6 | Cover-duct,lower | 9074-383-001 | 1 |
| 7 | Duct-transition | 9109-131-001 | 1 |
| * | Screw-hxwshrundrcuthd,10abx3/8 | 9545-008-024 | 59 |
| 8 | Cntlasy-ign,t-20x2,gas,coin-15 | 9857-250-001 | 1 |
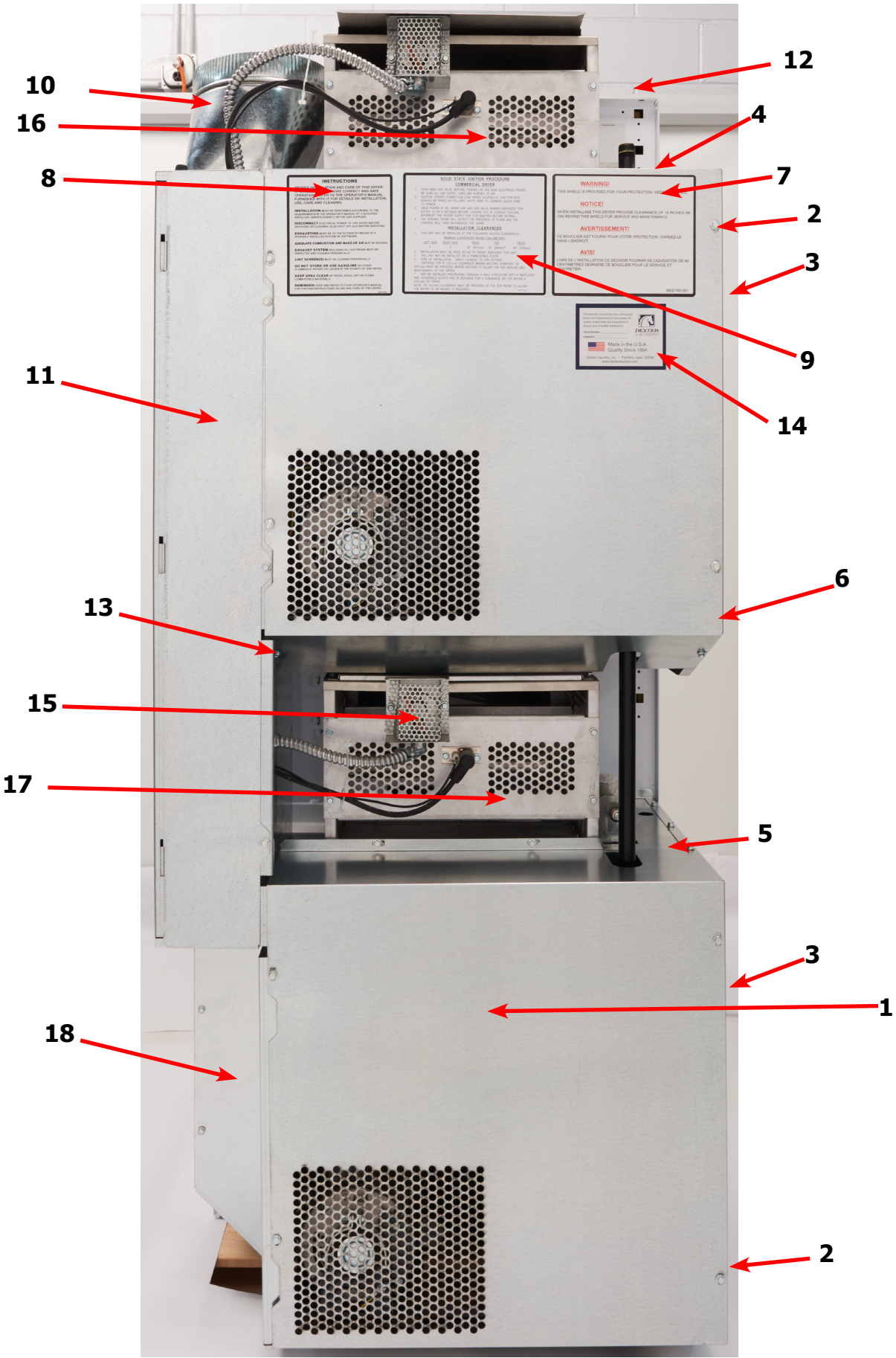
# Air Flow Switch Assembly
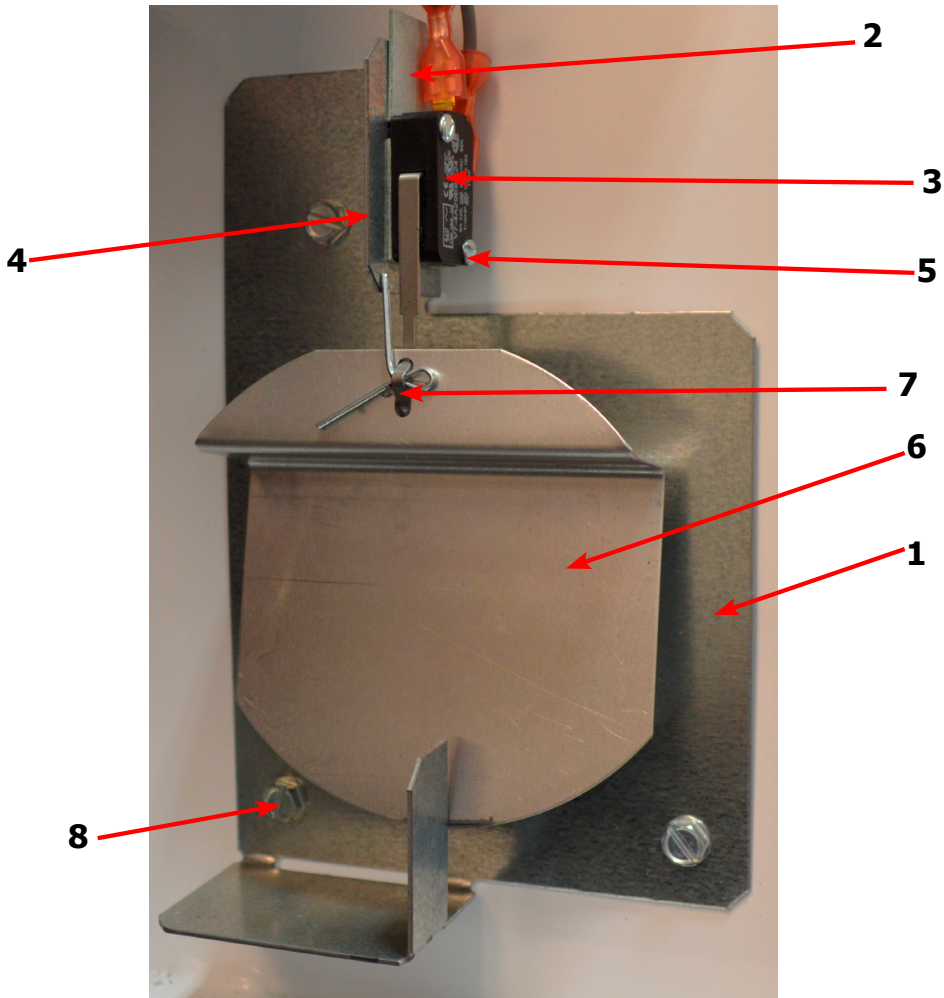


| Key | Description | T-20x2 | QTY |
|---|---|---|---|
| * | Air Flow switch Assy | 9801-095-001 | 2 |
| 1 | Bracket-Airflow switch | 9029-174-001 | 2 |
| 2 | Shield-Switch | 9550-169-003 | 2 |
| 3 | Switch-Micro | 9539-461-009 | 2 |
| 4 | Nut-Twin, 4-40 | 8640-401-001 | 2 |
| 5 | Screw-.625, 4-40 | 9545-020-001 | 2 |
| 6 | Actuator-Air Flow Switch | 9008-007-001 | 2 |
| 7 | Pin-Cotter, .09375x.75 | 9451-169-002 | 2 |
| 8 | Screw, 10 B x 1/4 | 9545-008-001 | 3 |
| * | Wireasy-brn,#13,34” | 8220-063-032 | 1 |
| * | Wireasy-org,#14,24” | 8220-095-040 | 1 |
| * | Wireasy-vio,54” | 8220-103-001 | 1 |

| Key | Description | T-20X2 | QTY |
|---|---|---|---|
| * | Control, Rear | 9857-250-001 | 1 |
| 1 | Wrapper-controlbox | 9636-219-001 | 1 |
| 2 | Panel-upper,controlbox | 9454-974-001 | 1 |
| 3 | Panel-lower,controlbox | 9454-973-001 | 1 |
| * | Screw-hxwshrundrcuthd,10abx3/8 | 9545-008-024 | 6 |
| 4 | Wireasy-grn/yel,7" | 8220-137-002 | 1 |
| * | Screw-hxwsrhdsl,10-32ttx1/2grn | 9545-008-027 | 1 |
| * | Lock washer-exttooth,#10 | 8641-582-006 | 1 |
| 5 | Terminal block assembly-power | 9897-026-002 | 1 |
| 6 | Terminal block assembly-power | 9897-026-001 | 2 |
| * | Screw-panhdcr,#8abx1/2 | 9545-045-012 | 6 |
| 7 | Transformer | 8711-013-001 | 1 |
| * | Screw-hxwshrundrcuthd,10abx3/8 | 9545-008-024 | 4 |
| 8 | Controls assy-ignition | 9857-182-001 | 2 |
| * | Screw-hxwshd,10abx3/4 | 9545-008-018 | 4 |
| 9 | Wireasy-high voltage,#8,18 1/2" | 9631-403-008 | 1 |
| 10 | Wireasy-high voltage,#7,29 1/4" | 9631-403-009 | 1 |
| 11 | Wiring harness-ignitioncontrol Upper | 9627-867-005 | 1 |
| 12 | Wiring harness-ignition control lower | 9627-867-006 | 1 |
| * | Plug-plastic,7/8" | 9456-041-006 | 2 |
| * | Bushing-wire,7/8 | 9053-067-002 | 4 |
| * | Connector-conduit,3/8",str | 8653-068-003 | 1 |
| 13 | Fuse holder assembly | 9200-001-002 | 3 |
| * | Fuse-1.5a,fast,1/4x1-1/4 | 8636-018-001 | 2 |
| * | Fuse-2.5a,fast,1/4x1-1/4 | 8636-018-004 | 1 |
| 14 | Relay-motor,30amp,24vac | 5192-299-002 | 2 |
| * | Screw-panhdcr,#8abx1/2 | 9545-045-012 | 4 |
| * | Wireasy-red/blk,#9,14" | 8220-062-036 | 1 |
| * | Wireasy-red/wht,#10,14" | 8220-062-037 | 1 |
| * | Wireasy-wht,#11,14" | 8220-062-038 | 2 |
| 15 | Bracket-power block | 9029-202-001 | 1 |
| * | Screw-hxwshrundrcuthd,10abx3/8 | 9545-008-024 | 2 |
| * | Terminal block asy-power,4pole | 9897-035-001 | 1 |
| * | Screw-hxwshrundrcuthd,10abx3/8 | 9545-008-024 | 2 |
| * | Strip-marker,terminal | 9558-029-003 | 1 |
| 16 | Wiring harness-power,main,fork | 9627-859-003 | 1 |
| 17 | Wiring harness-mainex tension | 9627-953-004 | 1 |
| 18 | Standoff-wires addlew/arrowhead | 9527-007-001 | 22 |
| 19 | Wiring harness-motor ext,w/fork Lower | 9627-864-006 | 1 |
| 20 | Wiring harness-motor extension Upper | 9627-864-011 | 1 |
| * | Screw-pnhdcr,6bx3/8 | 9545-031-005 | 4 |
| * | Screw-hxwsrhdsl,10-32ttx1/2grn | 9545-008-027 | 2 |
| * | Lockwasher-exttooth,#10 | 8641-582-006 | 2 |
| 21 | Wireasy-red,37" | 8220-095-011 | 1 |
| 22 | Wireasy-blu,42" | 8220-095-012 | 1 |
| 23 | Wireasy-wht,22" | 8220-095-048 | 1 |
| 24 | Wireasy-blk,#30,45" | 8220-095-046 | 1 |

# Control Assembly Group
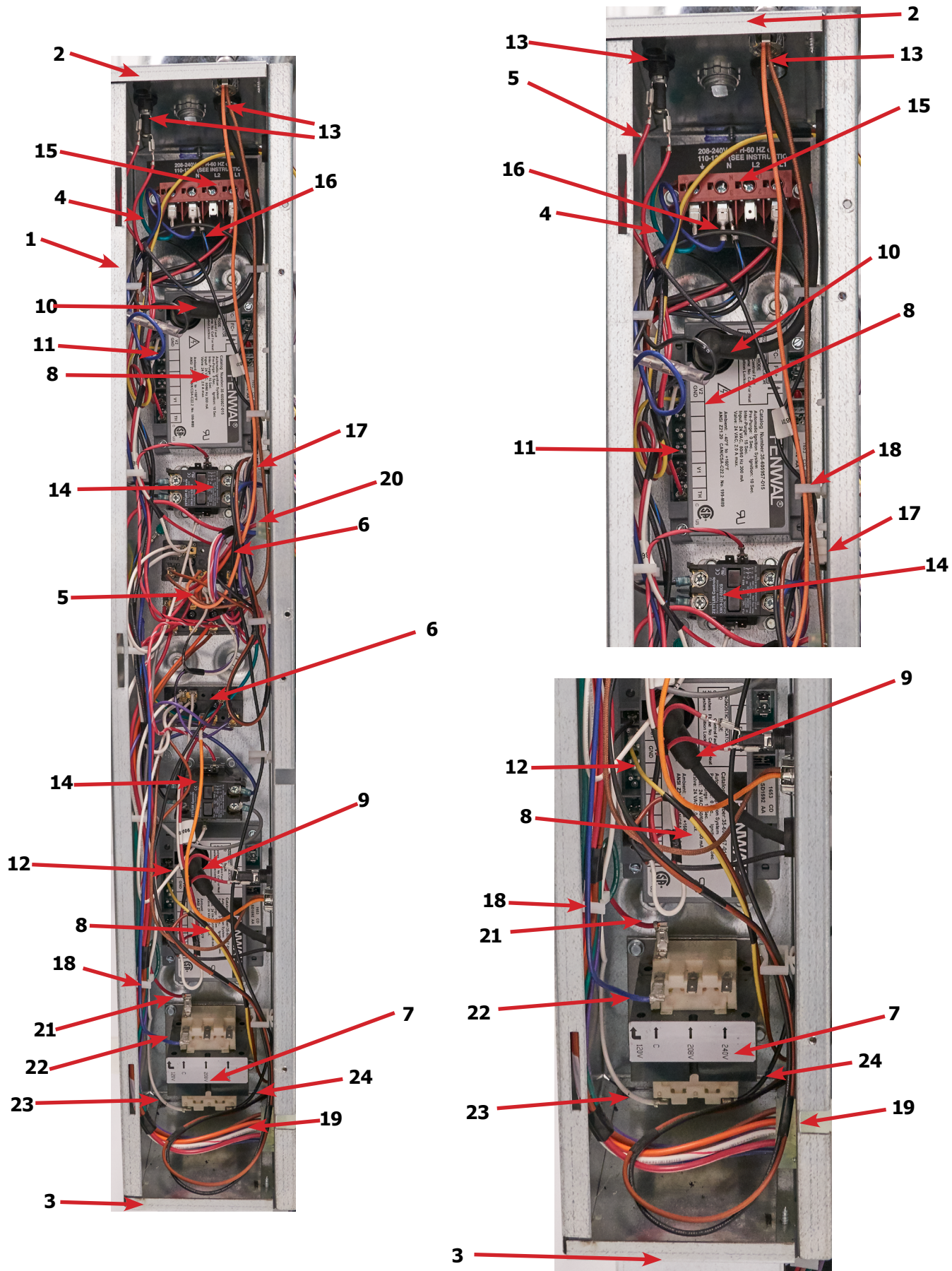
# Wire Harness

| Key | Description | T-20x2 | QTY |
|---|---|---|---|
| * | Wireharness-overtemp/airswitch | 9627-861-002 | 2 |
| * | Wireharness-main,dry,t-20x2 | 9627-953-004 | 1 |
| * | Wiringharness-heatsensor | 9627-855-003 | 1 |
| * | Wireasy-org,37" | 8220-095-049 | 1 |
| * | Wireasy-brn,37" | 8220-095-050 | 1 |
| * | Wireasy-org,#14,24" | 8220-095-040 | 1 |
| * | Wireasy-brn,#15,24" | 8220-095-041 | 1 |
| * | Wireasy-yel,47/8" | 8220-001-466 | 2 |
| * | Wireasy-grn/yel,#16,24" | 8220-137-001 | 1 |
| * | Wiringharness-ignitioncontrol | 9627-867-005 | 1 |
| * | Wiringharness-ignitioncontrol | 9627-867-006 | 1 |
| * | Wiringharness-power,main,fork | 9627-859-003 | 1 |
| * | Wiringharness-mainextension | 9627-953-004 | 1 |
| * | Wiringharness-motorext,w/fork | 9627-864-006 | 1 |
| * | Wiringharness-motorextension | 9627-864-011 | 1 |
| * | Wireasy-grn/yel,7" | 8220-137-002 | 1 |
| * | Wireasy-red/blk,#9,14" | 8220-062-036 | 1 |
| * | Wireasy-red/wht,#10,14" | 8220-062-037 | 1 |
| * | Wireasy-wht,#11,14" | 8220-062-038 | 2 |
| * | Wireasy-red,37" | 8220-095-011 | 1 |
| * | Wireasy-blu,42" | 8220-095-012 | 1 |
| * | Wireasy-wht,22" | 8220-095-048 | 1 |
| * | Wireasy-blk,#30,45" | 8220-095-046 | 1 |

# Coin Handling Group

| Key | Description | Part Number | Qty |
|---|---|---|---|
|  | Coin Acceptor, Optical, US Quarter | 9021-092-002 | 1 |
| * | Retainer, Coin Acceptor | 9486-149-001 | 1 |
| * | Screw, Torx | 9545-053-002 | 4 |
| 1 | Switch Assembly, Optical Sensor | 9801-099-003 | 1 |
| * | Harness, Acceptor Mechinical (Control to Acceptor) | 9627-783-003 | 1 |
| * | Coin Vault | 9942-038-005 | 1 |
| * | Screw, 10AB X 3/8 | 9545-008-024 | 2 |
| * | Plateasy-coinvaultmounting | 9982-338-001 | 1 |
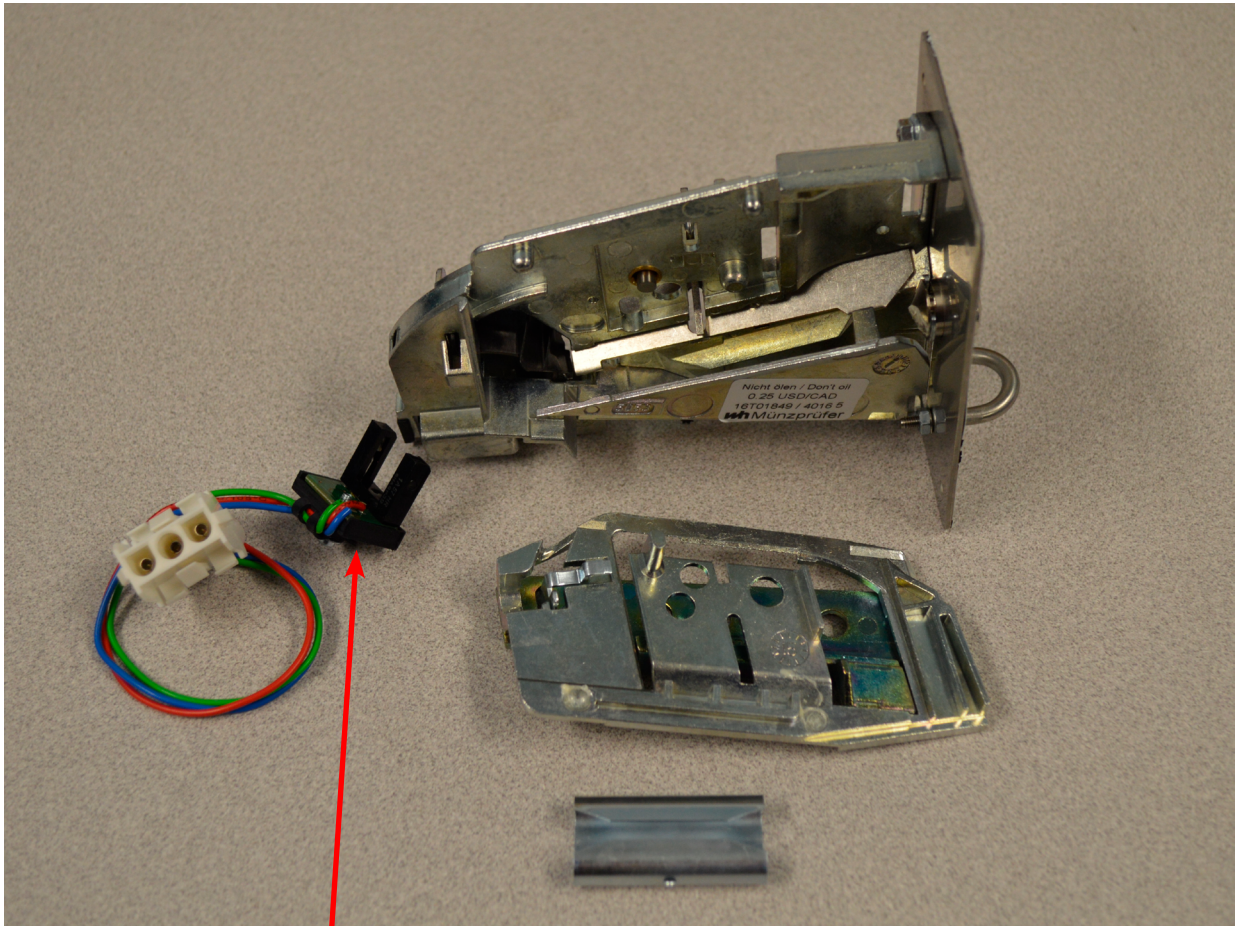


**1**

# Wiring Diagram for DC20x2
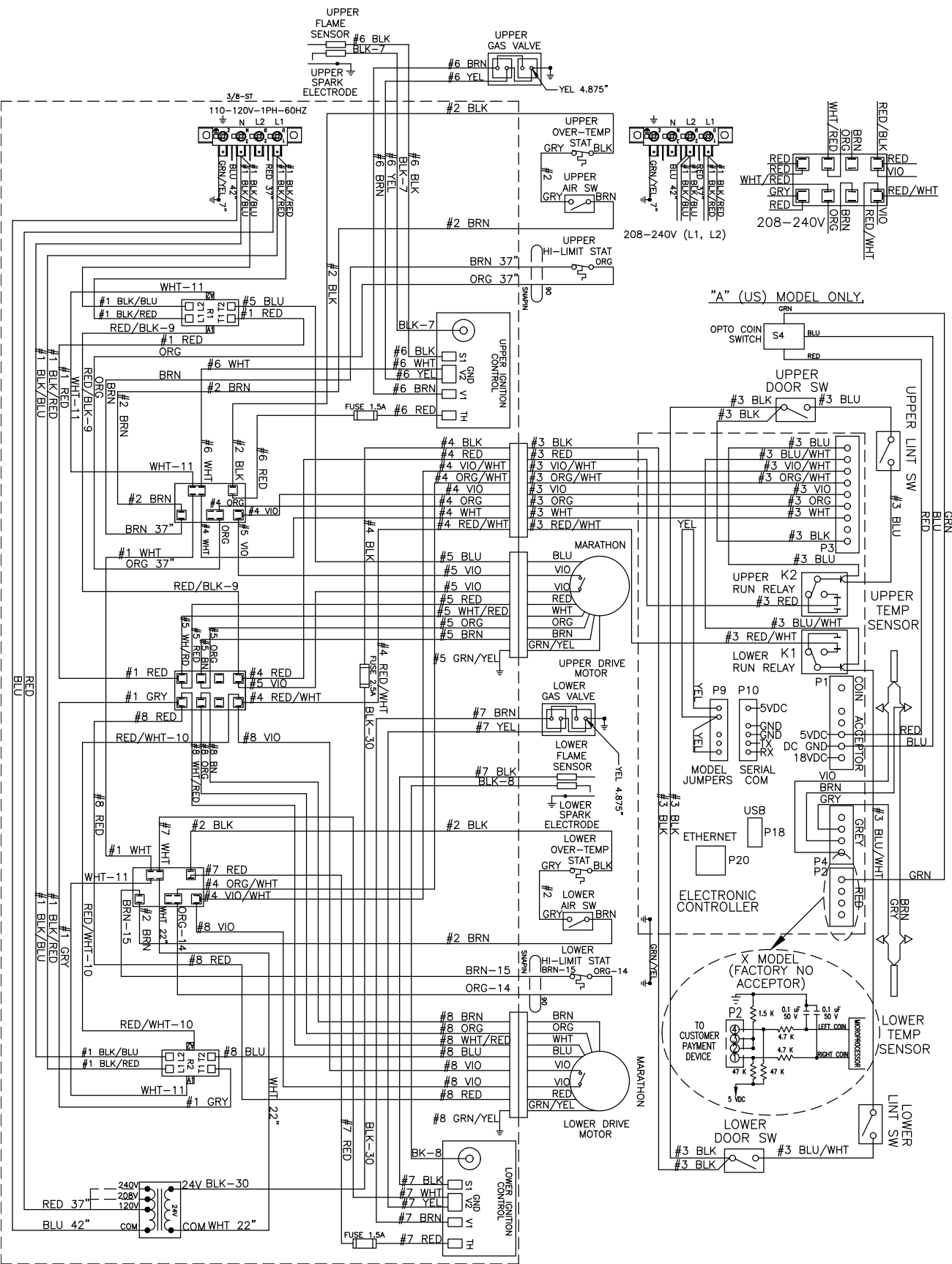
# Wiring Schematic for DC20x2

9506-836-001PR  WIRING DIAGRAM  DC20X2N_-15_C_X-

**IMPORTANT: RETAIN THIS ELECTRICAL DIAGRAM FOR SERVICE.**
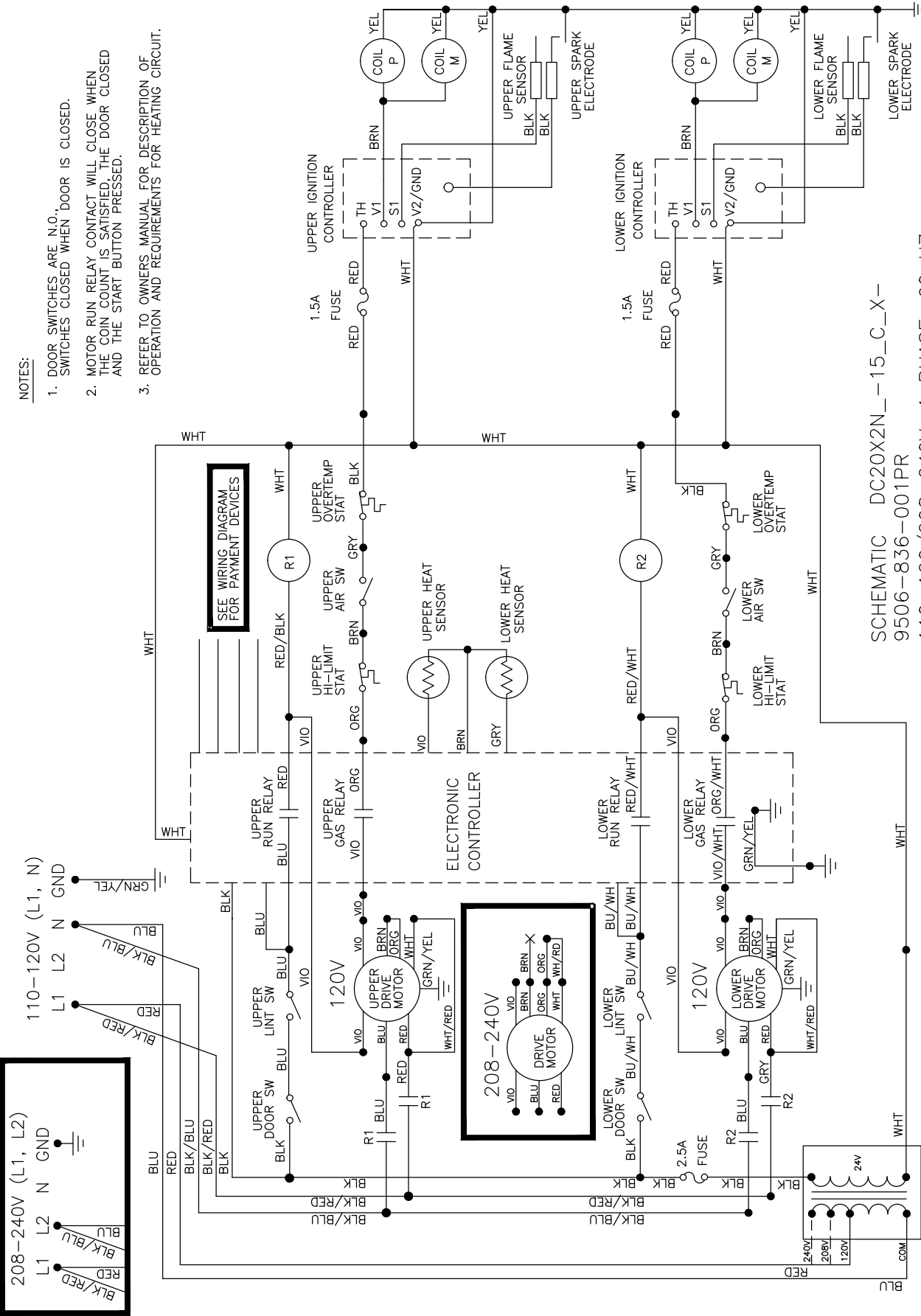
SCHEMATIC  DC20X2N_-15_C_X-
9506-836-001PR
110-120/208-240V, 1 PHASE, 60 HZ

**IMPORTANT: RETAIN THIS ELECTRICAL SCHEMATIC FOR SERVICE.**

NOTES:
1. DOOR SWITCHES ARE N.O. SWITCHES CLOSED WHEN DOOR IS CLOSED.
2. MOTOR RUN RELAY CONTACT WILL CLOSE WHEN THE COIN COUNT IS SATISFIED, THE DOOR CLOSED AND THE START BUTTON PRESSED.
3. REFER TO OWNERS MANUAL FOR DESCRIPTION OF OPERATION AND REQUIREMENTS FOR HEATING CIRCUIT.

**Notes**

# Section 8:

## Maintenance

# Preventative Maintenance

## Daily

**Step 1:**   Clean the lint screen free of lint and other debris. Use a soft brush and Hot water if necessary.

**Step 2:**   Check the lint screen for tears. Replace if necessary.

**Step 3:**   Clean lint from the lint screen compartment.

**Step 4:**   Inspect felt seal on lint screen assembly, replace if needed.

## Monthly

**Step 1:**   Remove lint accumulation from the end bells of the motor.

**Step 2:**   Remove lint accumulation from front control area.

**Step 3:**   Remove lint and dirt accumulation from the top of the dryer and all areas above, below, and around the burners and burner housing.  Failure to keep this portion of the dryer clean can lead to a build-up of lint creating a fire hazard.

**Step 4:**   Remove and clean coin acceptors. (Vended Models Only)

## Quarterly

**Step 1:**   Check the belts for looseness, wear, or fraying.

**Step 2:**   Inspect the gasket of the door glass for excessive wear.

**Step 3:**   Check tightness of all fasteners holding parts to support channel.

**Step 4:**   Check tightness of all set screws.

**Step 5:**   Remove the air flow switch assembly and check the tumbler thru-bolts for tightness.

**Step 6:**   Apply a few drops of oil to pivot pins and the tension arms where in contact with each other.

## Semi-Annually

**Step 1:**   Remove and clean the main burners.

**Step 2:**   Remove all orifices and examine for dirt and hole obstruction.

**Step 3:**   Remove all lint accumulation. Remove the front panel and the lint screen housing and remove lint accumulation.

## Annually

**Step 1:**   Check the intermediate pulley bearings for wear.

**Step 2:**   Check and remove any lint accumulation from the exhaust system including recirculation chambers if applicable.

**Step 3:**   Grease the bearings and the shaft of the intermediate pulley. Use an Alemite grease gun and Molykote BR2-S grease. (Where applicable)

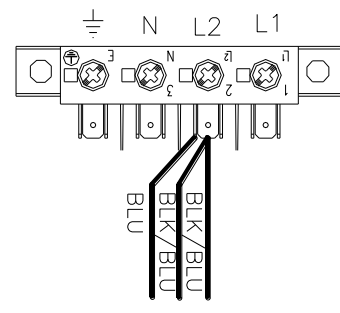# Section 9:

## Voltage

## Conversion

## Instructions - Convert a Dual Voltage Stack Dryer from 120V to 208-240V
## (No Neutral Required)

1. Remove incoming power from the dryer. Use a known working voltmeter to check power.

2. Remove the cover of the control box assembly from the dryer using a 5/16" wrench.

3. Move the black/blue wire AND the blue wire from the N position of the main power terminal block to the L2 position of the main power terminal block in the upper control box assembly. See figure below.

4. Move the white/red wire of the upper motor harness to an upper inner left terminal in the middle terminal block in the lower control box assembly. See figure below.

5. Move the orange wire of the upper motor harness to an upper inner left terminal in the middle terminal block in the lower control box assembly. See figure below.

6. Move the white/red wire of the lower motor harness to a lower inner left terminal in the middle terminal block in the lower control box assembly. See figure below.

7. Move the orange wire of the lower motor harness to a lower inner left terminal in the middle terminal block in the lower control box assembly. See figure below.
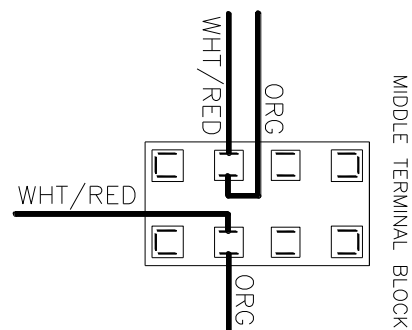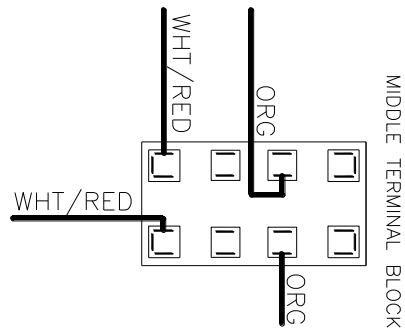
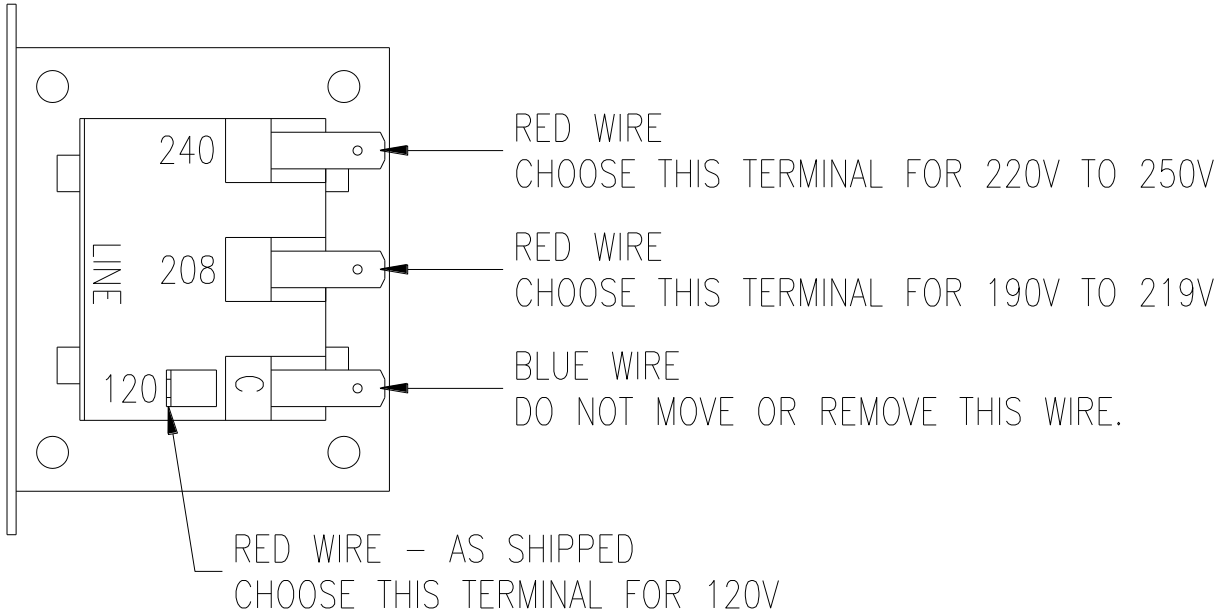Conversion instructions continued on next page.
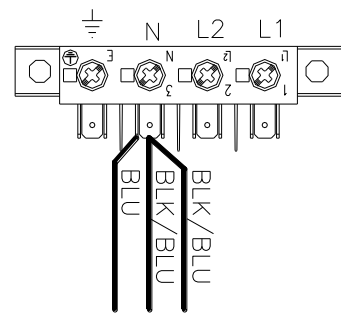


110-120V (L1, N)

208-240V (L1, L2)

8. Move the red wire from the 120V tap on the transformer found in the bottom of control box to the required voltage tap based on actual supply voltage measurement. See figure below.

### CONTROL TRANSFORMER CONNECTIONS
### AS VIEWED FROM SIDE OF TRANSFORMER



RED WIRE
CHOOSE THIS TERMINAL FOR 220V TO 250V

RED WIRE
CHOOSE THIS TERMINAL FOR 190V TO 219V

BLUE WIRE
DO NOT MOVE OR REMOVE THIS WIRE.

RED WIRE - AS SHIPPED
CHOOSE THIS TERMINAL FOR 120V

9. Reconnect power to the dryer and test to ensure proper operation; one line voltage to L1, one line voltage to L2 and the earth ground to E.

10. Reinstall the cover of the control box assembly on the dryer using a 5/16" wrench.

**Notes**

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# Section 10:

50 hZ
Models

## 50HZ Wiring Schematic Dryer Idle - No Coins Added
Top Dryer Used For This Example

230 VAC 50 HZ is supplied to the Main Power Terminal Block and passes through a In- line Noise Filter and comes out on BLK/RED and BLK/BLU wire. 230 VAC now passes to a Mulit-tap Control Step Down Transformer and also passes to the Motor Control Relay (R1&R2). When there is power to the dryer the Computer Board will be powered and the display lighted from the 24 VAC secondary side of Control Step Down Transformer. 24 VAC from here is also on one side of the door switch on a black wire. Closing the loading door allows 24 VAC to pass on to the Computer Board on two blue wires. One blue wire makes 24 VAC available to one side of the Motor Run Relay on Computer Board. The other blue wire provides a 24 VAC signal to the Computer Board telling it that the door is closed and door light on the computer board should be illuminated.

## Coins Added - Motor Starting and Running
Top Dryer Used For This Example

As each coin is added the Coin Switch closes and completes a circuit to the Computer Board. The Computer Board counts these signals and registers them against time. The time will display once the Start Button for Upper or Lower is pushed. When the Start Button is pushed again the Computer Board Motor Run Relay closes on the computer. With this Relay closed, 24 VAC is supplied to the Motor Control Relay (R1) on the red wire and also a violet wire going down to motor. The motor LED on the computer board should be illuminated anytime the computer calls for the motor to operate. With (R1) engaged and 230 VAC at motor the Motor Start Switch in motor is drawn in to the start position. In this position the incoming power 230 VAC is supplied directly to the main run winding and through the Start Capacitor to the Auxiliary Winding (start winding). As the Motor comes up to speed, the centrifical switch inside motor opens the circuit to the Start Winding and closes the circuit to allow 24 VAC to pass to the Gas Relay on the Computer Board on the other violet wire.The heat circuit in the dryer can not operate if the motor is not running. The gas LED on the computer board will be illuminated when Computer Board calls for the heat after Motor Centrifical Switch has closed.

## Heat Circuit
Top Dryer Used For This Example

With the Drive Motor running and 24 VAC provided to the Computer Board Gas Relay, it will close if Computer Board senses programmed temperature is needed. The violet wire changes to an orange wire out of the Computer Board Gas Relay. When this relay closes it provides 24 VAC to the High Limit Thermostat. The High Limit Thermostat is normally closed. (It will open, turning off the heat circuit, if the dryer can't move enough air from problems such as an exhaust restriction or other problems.) 24 VAC now goes through to the normally open Air Switch (Sail Switch) on the brown wire. This switch is closed only if the dryer is running and has the correct air flow. With the dryer running and the Air Switch closed, 24 VAC is supplied to the normally closed upper manual reset Overtemp Thermostat on the gray wire and changes to the black wire out of switch and then changes to red wire and goes to the 1.5 amp in-line fuse that protects the Upper Ignition Controller(GREY BOX). With 24 VAC now supplied to the Upper Ignition Controller (GREY BOX) it will then send high voltage to the Spark Ignition Electrode via the High Voltage Lead Wire (this lead looks like an automotive spark plug wire). The Ignition Control Module (GREY BOX)simultaneously sends 24VAC to the Gas Valve Coil which open the Gas Valve and allows gas to pass through to the main burner. When ignition occurs the high voltage sparking stops and if Ignition Control Module (GREY BOX) gets a flame sense signal it will allow gas valve coil to remain energized and continue burner operation. If ignition does not occur, the Ignition Control Module (GREY BOX) will spark for 10 seconds before locking out.

## Manual Reset Safety Shutoff Over-Temperature Thermostat
Top Dryer Used For This Example

This thermostat is manually reset by pushing in the red button. The Over Temperature Thermostat is a safety backup for the entire Heat Circuit and located in the recirculation chamber area on the side of the burner housing. If the dryer over heats this Over Temperature Thermostat it opens the line to turn off the heat but leaves the Computer Board lighted and the drive motor powered and turning so the basket will cool down.

## Cool Down
Top Dryer Used For This Example

At the preprogrammed time (2 minutes factory setting--adjustable) the Computer Board will open the Gas Relay Contact. This allows the Drive Motor to continue to run but without heat. The gas light on the computer board should not be illuminated anytime the computer is in cool down. This Cool Down period allows the clothing (zippers, snaps, etc.) time to cool down to a temperature that is easily handled by customers.

## End of Cycle
Top Dryer Used For This Example
At the end of the cool down, the Computer Board opens the Upper Run Relay, which removes power from the Motor Control Relay (R1) and also removes power to the Drive Motor. The motor light on the computer board should no longer be illuminated. The Drive Motor and tumbler stops and the Computer Board display now flashes until the dryer loading door is opened. Once the dryer loading door is opened to remove the clothing the display goes back to vend price.

# DC20x2-39 Additional Part

| Key | Description | T-20x2 | QTY |
|-----|-------------|--------|-----|
| * | INFORMATIVE-DC20X2N_-39 | 6102-018-368 | 1 |
| * | INFORMATIVE-MOUNTING LOCATIONS | 6102-034-001 | 1 |
| * | WIREASY-WHT,#6,11" | 8220-065-033 | 1 |
| * | WIREASY-BLK,#5,40" | 8220-065-040 | 1 |
| * | WIREASY-BLK/RED,#3,15" | 8220-149-001 | 1 |
| * | WIREASY-BLK/BLU,#4,19" | 8220-149-002 | 1 |
| * | LABEL-AUSSIE WARNING | 8502-698-001 | 1 |
| * | LABEL-AUST GAS APPROVAL BADGE | 8502-699-001 | 1 |
| * | LABEL-WARNING,NATURALGAS | 8502-770-001 | 1 |
| * | INSTRUCTIONS-DRYINSTALL/START | 8507-350-001 | 1 |
| * | INSTRUCT-AUS ADDENDUM,CONTACT | 8507-440-001 | 1 |
| * | CONNECTOR-WIRE,INLINE,1/4" | 8653-039-000 | 1 |
| * | NIPPLE-1/2CLOSE,BLK | 8655-073-041 | 2 |
| 1 | TRANSFORMER-CONTROL | 8711-008-002 | 1 |
| 2 | BRACKET-AIRFLOW,SWITCH,50HZ | 9029-174-002 | 2 |
| * | NAMEPLATE-DEXTER,T-20X2,BLK | 9412-251-001 | 1 |
| 3 | ORIFICE-MAIN BURNER,#43 | 9425-069-025 | 4 |
| * | OVERLAY-DRAWER,FRT,BLK,W/TEXT | 9435-053-003 | 2 |
| * | OVERLAY-ESC,T-20X2,UP,COIN,BLK | 9435-058-001 | 1 |
| * | OVERLAY-ESCUT,T-20X2,LWR,BLK | 9435-060-001 | 1 |
|  | PLATE-COVER,COINACCEPT(MAKE) | 9452-658-002 | 1 |
| 4 | PULLEY-MOTOR,50HZ | 9453-185-002 | 2 |
| * | WIRINGLABEL-SCHEMATIC/DIAGRAM | 9506-837-001 | 1 |
| * | STRIP-MARKER,TERMINAL | 9558-029-004 | 1 |
| 5 | WIRING HARNESS-POWER MAIN,W/FORK | 9627-859-002 | 1 |
| 6 | WIRING HARNESS-IGNITION CONTROL Upper | 9627-867-001 | 1 |
| 7 | WIRINGHARNESS-IGNITION CONTROL Lower | 9627-867-002 | 1 |
| 8 | KIT-HONEYWELL VR86 VALVEFLG,1/2" | 9732-162-001 | 4 |
| 9 | SWITCH ASSEMBLY-AIRFLOW,50HZ | 9801-095-002 | 2 |
| 10 | CONTROL ASSEMBLY-GAS | 9857-132-004 | 2 |
| * | CONTRLASY-STKCOIN,1.5,24V,BLK | 9857-198-004 | 1 |
| * | CNTL ASY-IGN,T-20X2,GAS,COIN-39 | 9857-250-002 | 1 |
| * | DRAWER ASSY-LINT,COIN,BLK,W/TXT | 9866-008-004 | 2 |

7
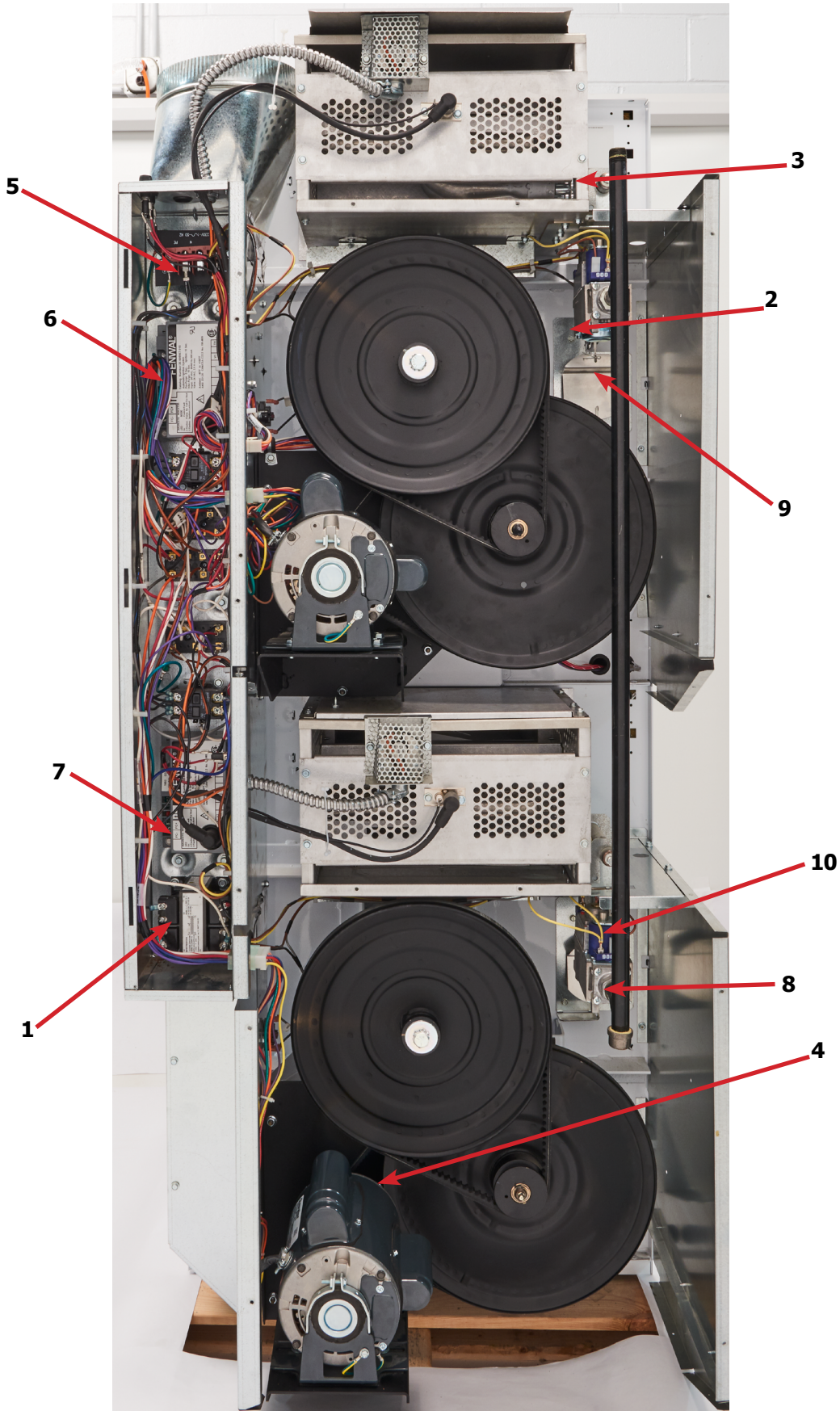
# Wiring Schematic for DC20x2-39



SCHEMATIC DC20X2N_-39AC_X-
9506-837-001PR
230V, 1 PHASE, 50 HZ

**IMPORTANT: RETAIN THIS ELECTRICAL SCHEMATIC FOR SERVICE.**
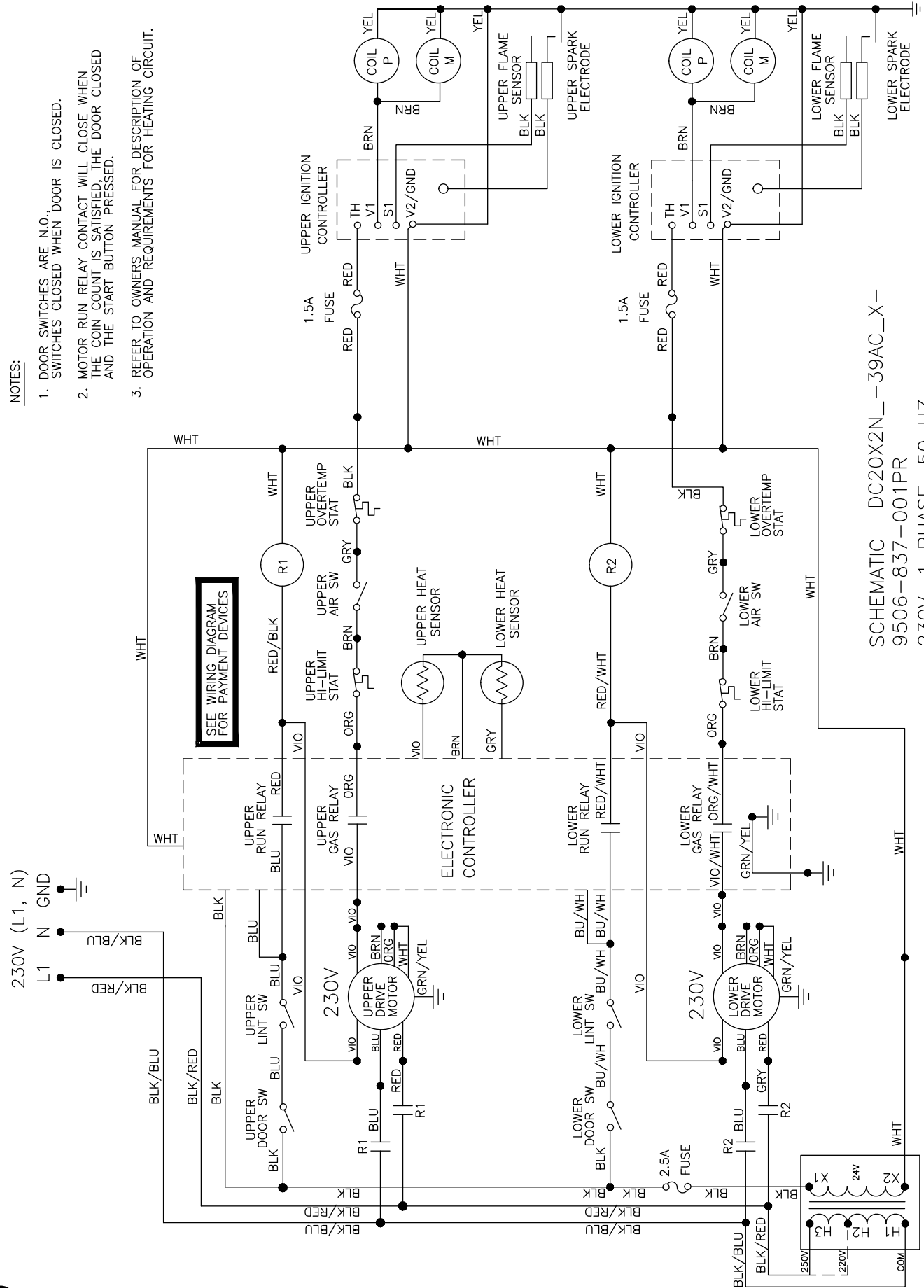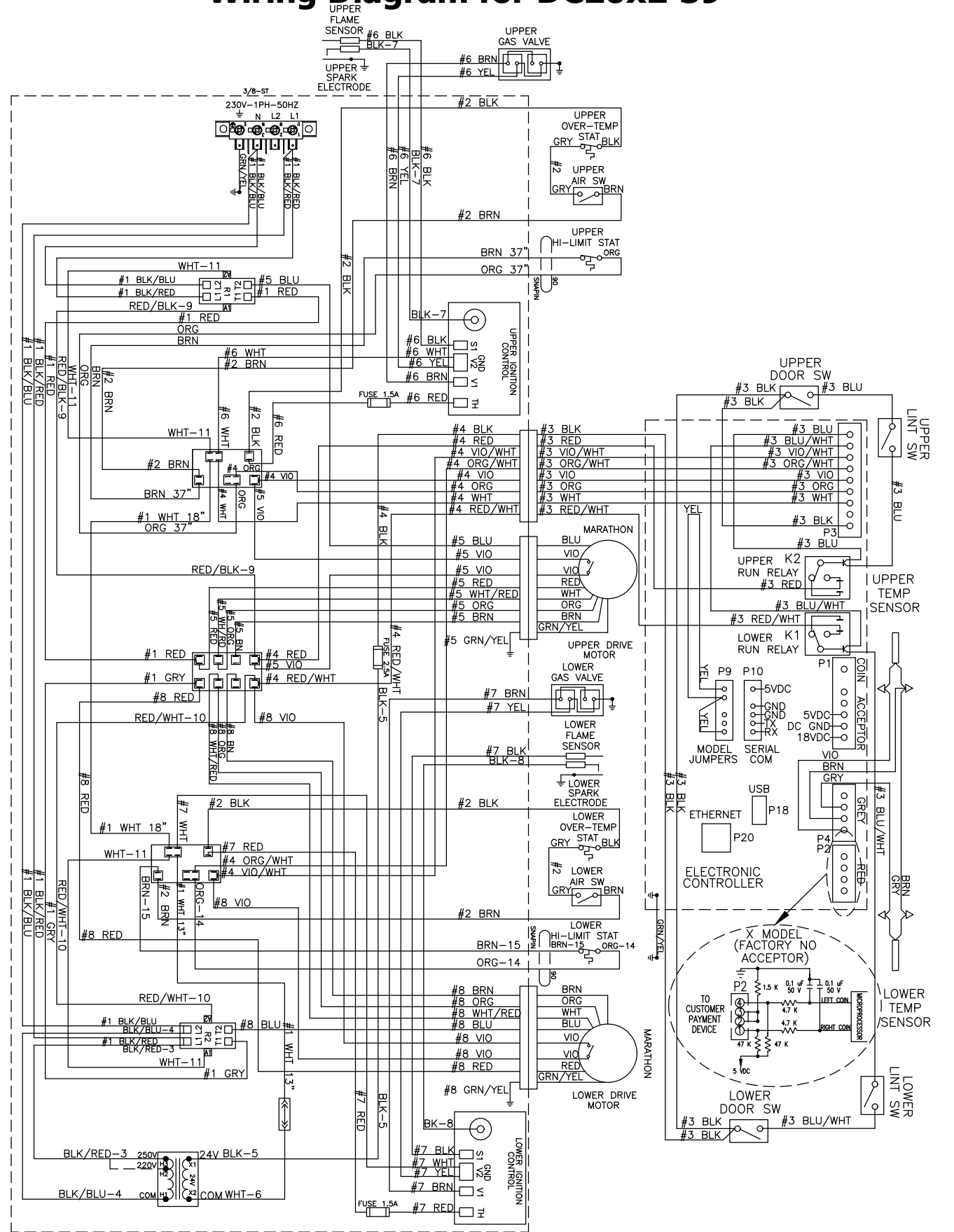
NOTES:

1. DOOR SWITCHES ARE N.O. SWITCHES CLOSED WHEN DOOR IS CLOSED.
2. MOTOR RUN RELAY CONTACT WILL CLOSE WHEN THE COIN COUNT IS SATISFIED, THE DOOR CLOSED AND THE START BUTTON PRESSED.
3. REFER TO OWNERS MANUAL FOR DESCRIPTION OF OPERATION AND REQUIREMENTS FOR HEATING CIRCUIT.

# Wiring Diagram for DC20x2-39



9506-837-001PR    WIRING DIAGRAM    DC20X2N_-39AC_X-

**IMPORTANT: RETAIN THIS ELECTRICAL DIAGRAM FOR SERVICE.**