

Powder Line

Touchscreen Operation Manual

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Automatic Mode-Starting of the SBS Powder Line System.

The System may be started from the **Auto Start Screen** accessed by depressing the **Auto Start** Function button in the bottom left corner of any screen.



The Washer and Ovens must be in **Auto Mode** to be started Automatically, the Conveyor will not start Automatically but must be started separately.

If the Component is in **Auto** mode then the Burner Message will have a <u>Black</u> box and say Auto, if it is in **Manual** mode then the Message will have a <u>Black</u> box and will say Manual.

Auto and Manual modes must be toggled from individual Manual Start screens.

The **Cure Oven** will start when the **Start Button** is depressed if it is in **Auto** mode, all of the Oven components and fans will step start. The Honeywell controller will start the Burner Fan and following a Twelve-Minute Purge time, the burner will light. The **Dry-Off Oven** will start when the **Start Button** is depressed if it is in **Auto** mode, all of the Oven components and fans will step start. The Honeywell controller will start the Burner Fan and following a Twelve-Minute Purge time, the burner will start when the **Start Button** is depressed if it is in **Auto** mode, all of the Oven components and fans will step start. The Honeywell controller will start the Burner Fan and following a Twelve-Minute Purge time, the burner will light.

The **Washer** will start when the **Start Button** is depressed if it is in **Auto** mode. The Honeywell controller will start the Burner Fan and following a two and one-half Minute Purge time, the burner will light. The pump motors will not step-start until the process temperatures are above 100 degrees Fahrenheit.

Automatic Mode-Starting of the SBS Powder Line System.

The **Cure Oven Indicator** will display the following States of the Oven Burner.

Oven Heat Cycle Off Oven Heat Cycle Started Oven Burner Purging Oven Burner Lighting Oven Burner Preheating Oven Burner Temperature OK Flame Enable Switch is Off Oven Temp Setpoint Change Oven Temp Out of Range Oven is Cooling Down Oven Burner Relay Alarm

The Conveyor Indicator displays the following States of the Conveyor. Conveyor Disabled Conveyor Enabled Conveyor is Running Forward Conveyor is Running Reverse Conveyor Frequency Drive Faulted (Must Reset)

The Dry-Off Oven Indicator will display the following States of the Oven Burner.

Oven Heat Cycle Off Oven Heat Cycle Started Oven Burner Purging Oven Burner Lighting Oven Burner Preheating Oven Burner Temperature OK Flame Enable Switch is Off Oven Temp Setpoint Change Oven Temp Out of Range Oven is Cooling Down Oven Burner Relay Alarm

To Stop the **Cure Oven** in Automatic Mode: Depress the **Stop Button**, the Oven burner will turn off but all of the Oven Fans will continue running until the Oven Temperature is Below 200 Degrees. When the Oven has completed its Cool-Down all Fans and Motors will turn off.

To Stop the **Washer** in Automatic Mode: Depress the **Stop Button**, the Washer Burners and pumps will turn off but the Exhaust Fans will continue running for Ten Minutes to evacuate excess steam from the Washer.

To Stop the **Dry-Off Oven** in Automatic Mode:

Depress the **Stop Button**, the Oven burner will turn off but all of the Oven Fans will continue running until the Oven Temperature is Below 200 Degrees. When the Oven has completed its Cool-Down all Fans and Motors will turn off.

Main Menu- Navigating to Different Screens

The function Keys are Located at the bottom of every screen. They are used to navigate to all of the screens available.



The Auto Start Selection will display the Auto Start Screen

The Manual Start Selection will display Manual Start Option Keys.

- The Cure Oven Manual Selection will display the Cure Oven Manual Screen
- The Dry Oven Manual Selection will display the Dry Oven Manual Screen
- The Washer Manual Selection will display the Washer Manual Screen.

The Conveyor Selection will display the Conveyor Manual Screen.

The Chemical Setpoints Selection will display the Chemical Setpoints Screen.

The Flame Safety Selection will display Flame Safety Option Keys.

The Cure Oven Display Selection will display the Oven Flame Safety Display Screen.

The Dry Oven Display Selection will display the Dry Oven Flame Safety Display.

The Setpoint Inputs Selection displays Setpoint Temperatures and Conveyor Speed. The Trend Display Selection will display Trend Display Option Keys.

The Cure Oven Trend Selection displays the 6-Hour Trend Screen for the Cure Oven.

The Dry Oven Trend Selection displays the 6-Hour Trend Screen for the Cure Oven.

The Washer Trend Selection displays the **6-Hour Trend** Screen for the Washer.

The Historical Trend Selection displays the Historical Trend Screen.

The MS Trend Selection displays the Chemical Trend Screen for the Washer.

The Alarm Display Selection will display the Alarm Display Screen.

Automatic Mode-Starting of the Powder Line Cure Oven

The Cure Oven may be started from the **Auto Start Screen** accessed by depressing the **Auto Start** Function button in the bottom left corner of any screen.



The Cure Oven must be in **Auto Mode** to be started automatically. If **Auto** is not displayed to the right of the **Start Button** then it must be toggled from **Manual** to **Auto**.

The **Start Button** is depressed to **Automatically** start all of the Oven components.

The **Oven Heat Cycle Off** display will change to **Oven Heat Cycle Started** and the burner will light following a **Twelve-Minute Purge**.

Automatic Mode-Starting of the Powder Line Cure Oven

The **Cure Oven Indicator** displays the following States of the Oven Burner. **Oven Heat Cycle Off Oven Heat Cycle Started Oven Burner Purging Oven Burner Lighting Oven Burner Temperature OK Flame Enable Switch is Off Oven Temp Setpoint Change Oven Temp Out of Range Oven is Cooling Down Oven Burner Relay Alarm**

To Stop the Oven in Automatic Mode:

Depress the **Stop Button**, the Oven burner will turn off but all of the Oven Fans will continue running until the Oven Temperature is Below 200 Degrees.

When the Oven has completed its Cool-Down all Fans and Motors will turn off.

The Current Oven Burner Temperatures are displayed to the right of the Start Button. The Oven Range of Temperature is 0 to 500 Degrees Fahrenheit.

Automatic Mode-Starting of the Powder Line Dry-Off Oven

The Dry-Off Oven may be started from the **Auto Start Screen** accessed by depressing the **Auto Start** Function button in the bottom left corner of any screen.



The Dry-Off Oven must be in **Auto Mode** to be started automatically. If **Auto** is not displayed to the right of the **Start Button** then it must be toggled from **Manual** to **Auto**.

The **Start Button** is depressed to **Automatically** start all of the Oven components.

The **Oven Heat Cycle Off** display will change to **Oven Heat Cycle Started** and the burner will light following a **Twelve-Minute Purge**.

Automatic Mode-Starting of the Powder Line Dry-Off Oven

The Dry-Off Oven Indicator displays the following States of the Oven Burner. Oven Heat Cycle Off Oven Heat Cycle Started Oven Burner Purging Oven Burner Lighting Oven Burner Preheating Oven Burner Temperature OK Flame Enable Switch is Off Oven Temp Setpoint Change Oven Temp Out of Range Oven is Cooling Down Oven Burner Relay Alarm

To Stop the Dry-Off Oven in Automatic Mode:

Depress the **Stop Button**, the Oven burner will turn off but all of the Oven Fans will continue running until the Oven Temperature is Below 200 Degrees.

When the Oven has completed its Cool-Down all Fans and Motors will turn off.

The Current Oven Burner Temperatures are displayed to the right of the Start Button. The Oven Range of Temperature is 0 to 500 Degrees Fahrenheit.

Automatic Mode-Starting of the Powder Line Washer

The Washer may be started from the **Auto Start Screen** accessed by depressing the **Auto Start** Function button in the bottom left corner of any screen.



The Washer must be in Auto Mode to be started automatically.

If **Auto** is not displayed to the right of the **Start Button** then it must be toggled from **Manual** to **Auto**.

The Start Button is depressed to Automatically start all of the Washer components.

Started will be displayed above the **Start Button** and the burners will light but the pump motors will not step-start until the process temperatures are above 100 Degrees Fahrenheit.

Automatic Mode-Starting of the Powder Line Conveyor

The Conveyor can also be started from the **Conveyor Screen** accessed by depressing the **Manual Start** and then the **Conveyor Start** Function button in the bottom left corner of any screen.

The Conveyor will operate in **Auto Mode** or **Manual Mode** and may be started by depressing the **Start Button** on the **Conveyor Manual Screen**.



Automatic Mode-Starting of the Powder Line Conveyor

The **Conveyor Indicator** on the **Conveyor Manual Start Screen** shows the following States of the Conveyor.

Conveyor Contactor Disabled Conveyor is Starting Conveyor Running Forward Conveyor Running Reverse Conveyor Drive Faulted

To Stop the Conveyor in Automatic Mode: Depress the **Conveyor Stop Button**, the Conveyor will Coast to a Stop in 5 Seconds.

To Stop the Conveyor in an Emergency:

Depress any of the **Conveyor Stops** at their remote locations or at the Control Panel, the Conveyor will come to an immediate Stop. The **Stop Switch must then be Released** and the **Conveyor Contactor must be Reset** at the Control Panel before restarting the Conveyor.

The Current Conveyor Speed is displayed on the **Auto Start Screen**, the **Conveyor Manual Screen** or the **System Setpoints Screen**.

The Conveyor Range of Speed is 5 FPM to 15 FPM.

After the Conveyor is running, the Conveyor Message Box will Display **Conveyor Running Forward** and the **Conveyor Speed Display** will change from 0.0 to the Actual Running Speed.

Manual Mode-Starting of the Powder Line Cure Oven

The Cure Oven must be started from the **Auto Start Screen** accessed by depressing the **Auto Start** Function button in the bottom left corner of any screen. Individual motors may then be started from the **Cure Oven Manual Screen** accessed by depressing the **Manual Start** Function button on the bottom of any screen.



All components must be in **Manual Mode** to be started Manually. If **Manual** is not displayed and flashing on the left side of the screen then it must be toggled from the **Auto** to **Manual**.

The **Start Button** on the **Auto Start Screen** must already be depressed to enable all of the Motors to be Manually toggled On or Off.

After the individual Fans have started all of the individual Fan Start Switches will display **Running**.

When the Oven is Stopped all of the individual Fan Stop Switches will display **Stopped**.

Manual Mode-Starting of the Powder Line Cure Oven

Recirculation Fan 1 can be started when the button is <u>green</u> and the word **Start** is displayed.

Recirculation Fan 1 can be stopped when the button is <u>red</u> and the word **Stop** is displayed.

Recirculation Fan 2 can be started when the button is <u>green</u> and the word **Start** is displayed.

Recirculation Fan 2 can be stopped when the button is <u>red</u> and the word **Stop** is displayed.

Exhaust Fan can be started when the button is <u>green</u> and the word **Start** is displayed. **Exhaust Fan** can be stopped when the button is <u>red</u> and the word **Stop** is displayed.

CAB Fan 1 can be started when the button is <u>green</u> and the word **Start** is displayed. **CAB Fan 1** can be stopped when the button is <u>red</u> and the word **Stop** is displayed.

Airseal Fan 1 can be started when the button is <u>green</u> and the word **Start** is displayed. **Airseal Fan 1** can be stopped when the button is <u>red</u> and the word **Stop** is displayed.

Airseal Fan 2 can be started when the button is <u>green</u> and the word **Start** is displayed. Airseal Fan 2 can be stopped when the button is <u>red</u> and the word **Stop** is displayed.

To Stop the Cure Oven in Manual Mode:

Depress the **Stop Button**, <u>all of the Oven Fans will continue running until the Oven</u> <u>Temperature is Below 200 Degrees.</u>

When the Oven has Completed its Cool-Down all Fans and Motors will turn off.

The Current Oven Temperature is displayed below the Start/Stop Buttons. The Oven Range of Temperature is 0 to 500 Degrees Fahrenheit.

After Oven is started, all of the individual Fan Start Switches will display **Running**. When the Oven is Stopped all of the individual Fan Stop Switches will display **Stopped**.

Manual Mode-Starting of the Powder Line Dry-Off Oven

The Dry-Off Oven must be started from the **Auto Start Screen** accessed by depressing the **Auto Start** Function button in the bottom left corner of any screen. Individual motors may then be started from the **Dry-Off Oven Manual Screen** accessed by depressing the **Manual Start** Function button on the bottom of any screen.



All components must be in **Manual Mode** to be started Manually. If **Manual** is not displayed and flashing on the left side of the screen then it must be toggled from the **Auto** to **Manual**.

The **Start Button** on the **Auto Start Screen** must already be depressed to enable all of the Motors to be Manually toggled On or Off.

After the individual Fans have started all of the individual Fan Start Switches will display **Running**.

When the Oven is Stopped all of the individual Fan Stop Switches will display Stopped.

Manual Mode-Starting of the Powder Line Dry-Off Oven

Recirculation Fan 1 can be started when the button is <u>green</u> and the word **Start** is displayed.

Recirculation Fan 1 can be stopped when the button is <u>red</u> and the word **Stop** is displayed.

Exhaust Fan can be started when the button is <u>green</u> and the word **Start** is displayed. **Exhaust Fan** can be stopped when the button is <u>red</u> and the word **Stop** is displayed.

CAB Fan 1 can be started when the button is <u>green</u> and the word **Start** is displayed. **CAB Fan 1** can be stopped when the button is <u>red</u> and the word **Stop** is displayed.

Airseal Fan 1 can be started when the button is <u>green</u> and the word **Start** is displayed. **Airseal Fan 1** can be stopped when the button is <u>red</u> and the word **Stop** is displayed.

Airseal Fan 2 can be started when the button is <u>green</u> and the word **Start** is displayed. Airseal Fan 2 can be stopped when the button is <u>red</u> and the word **Stop** is displayed.

To Stop the Dry-Off Oven in Manual Mode:

Depress the **Stop Button**, <u>all of the Oven Fans will continue running until the Oven Temperature</u> is Below 200 Degrees.

When the Oven has Completed its Cool-Down all Fans and Motors will turn off.

The Current Oven Temperature is displayed below the Start/Stop Buttons. The Oven Range of Temperature is 0 to 500 Degrees Fahrenheit.

After Oven is started, all of the individual Fan Start Switches will display **Running**. When the Oven is Stopped all of the individual Fan Stop Switches will display **Stopped**.

Manual Mode-Starting of the Powder Line Washer

The Washer must be started from the **Auto Start Screen** accessed by depressing the **Auto Start** Function button in the bottom left corner of any screen. Individual motors may then be started from the **Washer Manual** Screen accessed by depressing the **Manual Start** Function button on the bottom of any screen.



All components must be in **Manual Mode** to be started Manually. If **Manual** is not displayed in the box on the right of the screen then it must be toggled from the **Auto** to **Manual**.

The **Start Button** on the **Auto Start Screen** must be depressed to enable all of the Motors to be Manually toggled On or Off.

After the individual Pumps and Fans have started all of the individual Start Switches will display **Running**. When the Washer is Stopped all of the individual Stop Switches will display **Stopped**.

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Manual Mode-Starting of the Powder Line Washer

Stage 1 Pump can be started when the button is <u>green</u> and the word **Start** is displayed. **Stage 1 Pump** can be stopped when the button is <u>red</u> and the word **Stop** is displayed.

Stage 2 Pump can be started when the button is <u>green</u> and the word **Start** is displayed. **Stage 2 Pump** can be stopped when the button is <u>red</u> and the word **Stop** is displayed.

Stage 3 Pump can be started when the button is <u>green</u> and the word **Start** is displayed. **Stage 3 Pump** can be stopped when the button is <u>red</u> and the word **Stop** is displayed.

Stage 4 Pump can be started when the button is <u>green</u> and the word **Start** is displayed. **Stage 4 Pump** can be stopped when the button is <u>red</u> and the word **Stop** is displayed.

Entrance Exhaust Fan can be started when the button is <u>green</u> and the word **Start** is displayed.

Entrance Exhaust Fan can be stopped when the button is <u>red</u> and the word **Stop** is displayed.

Exit Exhaust Fan can be started when the button is <u>green</u> and the word **Start** is displayed.

Exit Exhaust Fan can be stopped when the button is <u>red</u> and the word Stop is displayed.

Burner 1 CAB can be started when the button is <u>green</u> and the word **Start** is displayed. **Burner 1 CAB** can be stopped when the button is <u>red</u> and the word **Stop** is displayed.

Burner 3 CAB can be started when the button is <u>green</u> and the word **Start** is displayed. **Burner 3 CAB** can be stopped when the button is <u>red</u> and the word **Stop** is displayed.

To Stop the Washer in Manual Mode: Depress the **Washer Stop Button**, <u>all of the Washer Pumps</u> <u>and Burners will stop but</u> <u>the Exhaust Fans will continue running for Ten Minutes to evacuate excess Steam from</u> <u>the Washer.</u>

System Setpoints-Entering New Setpoint Variables

The status of the System Temperature Setpoints and Current operating Temperatures are viewed by depressing the **System Setpoints** Button.



A new Temperature Setpoint Can be entered by depressing any of the Oven or Washer Temperature Setpoint buttons above the Current Setpoint Temperature.

A new Setpoint can be entered when the Keypad window is displayed

The Cure Oven Setpoint parameters are between 0 and 500 Degrees Fahrenheit.

The Dry Oven Setpoint parameters are between 0 and 500 Degrees Fahrenheit.

The Washer Setpoint parameters are between 0 and 160 Degrees Fahrenheit.

Cure Oven Display-Viewing the Cure Oven Burner Flame Safety



Pressing the **Cure Oven Display** Selection from the **Main Menu** screen can monitor the status of the **Cure Oven Burner Flame Safety**.

Each of the Flame Safeties are field wired in series, hence each must turn <u>blue</u> on the Display Screen sequentially starting from the **Emergency Stop Input**, **Master Control**.

If both **Gas Pressures** are in range then the Display will be <u>blue</u> up to the **High Temperature Switch**.

A Black **High Temperature Switch** indicates that it must be reset, it is located next to the Oven burner on top of the Oven.

As each Oven Fan is turned on its Airflow Switch will turn blue.

The Individual Burners may be disabled by depressing the Flame Enable buttons.

The **Purge Time** remaining will be displayed when all of the **Flame Safeties** are made. The **Oven Burner Flame Off** will turn <u>blue</u> and display a Flame which indicates the Current Flame Output when a **Main Flame** is detected.

Dry-Off Oven Display-Viewing the Dry-Off Oven Burner Flame Safety



Pressing the **Dry-Off Oven Display** Selection from the **Main Menu** screen can monitor the status of the **Dry-Off Oven Burner Flame Safety**.

Each of the Flame Safeties are field wired in series, hence each must turn <u>blue</u> on the Display Screen sequentially starting from the **Emergency Stop Input, Master Control**.

If both **Gas Pressures** are in range then the Display will be <u>blue</u> up to the **High Temperature Switch**.

A black **High Temperature Switch** indicates that it must be reset, it is located next to the Oven burner on top of the Oven. As each Oven Fan is turned on its Airflow Switch will turn <u>blue</u>.

The Individual Burners may be disabled by depressing the Flame Enable buttons.

The **Purge Time** remaining will be displayed when all of the **Flame Safeties** are made.

The **Dry-Off Oven Burner Flame Off** will turn <u>blue</u> and display a Flame which indicates the Current Flame Output when a **Main Flame** is detected.

<u>Cure Oven Trend Display</u>

The status of the Combo Oven Temperatures and Setpoints are viewed on a Trend by depressing the **Cure Oven Trend** Button from any screen.



The recorded Temperatures move from **Right** to **Left** the way a Chart recorder operates.

The Temperatures and Setpoints are displayed in a Eight-Hour time span and may only be viewed while they are displayed.

The Cure Oven Trend Display will update every Two Minutes.

The **Burner 1 Temperature** is Displayed with a **Green Line**. The **Burner 1 Setpoint** Temperature is Displayed with a **Yellow Line**.

Alarms-Viewing Current and Acknowledged Alarms

When a new alarm occurs the Alarm Master Screen is Automatically Displayed.

Depressing the Alarm Master from any screen will access the Alarm Screen.

IMPORTANT!

If an Alarm is Acknowledged with the **Acknowledge All** Button the PLC will Ignore the Alarm and the Beacon will turn Off.

If an Alarm is Reset with the **Reset All** Button then if the Alarm is still Active it will reactivate the Alarm Screen and Beacon and will be displayed again, if it is not still Active then it will not be displayed again.

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Alarm Messages- Currently Programmed Alarms

Currently Programmed Alarm are:

Cure Oven

Cure Oven Recirculation Fan 1 Airflow Alarm Cure Oven Recirculation Fan 2 Airflow Alarm Cure Oven Exhaust Fan Airflow Alarm Cure Oven Recirculation Fan 1 Contactor Overload Alarm Cure Oven Recirculation Fan 2 Contactor Overload Alarm Cure Oven Airseal Fan 1 Contactor Overload Alarm Cure Oven Airseal Fan 2 Contactor Overload Alarm Cure Oven Exhaust Fan Contactor Overload Alarm Cure Oven Burner Fan 1 Contactor Overload Alarm Cure Oven Burner Fan 1 Contactor Overload Alarm Cure Oven Burner 1 High Gas Pressure Alarm Cure Oven Burner 1 High Temperature Limit Switch Alarm Cure Oven Burner 1 Honeywell Control Relay Alarm Cure Oven Burner 1 Temperature Input Error Cure Oven Burner 1 High Temperature Flame Off Alarm

Dry-Off Oven

Dry Oven Recirculation Fan 1 Airflow Alarm

Dry Oven Exhaust Fan Airflow Alarm

Dry Oven Recirculation Fan 1 Contactor Overload Alarm

Dry Oven Airseal Fan 1 Contactor Overload Alarm

Dry Oven Airseal Fan 2 Contactor Overload Alarm

Dry Oven Exhaust Fan Contactor Overload Alarm

Dry Oven Burner Fan 1 Contactor Overload Alarm

Dry Oven Burner 1 High Gas Pressure Alarm

Dry Oven Burner 1 Low Gas Pressure Alarm

Dry Oven Burner 1 High Temperature Limit Switch Alarm

Dry Oven Burner 1 Honeywell Control Relay Alarm

Dry Oven Burner 1 Temperature Input Error

Dry Oven Burner 1 High Temperature Flame Off Alarm

Currently Programmed Alarm are:

Washer

Washer Stage 1 Pump Contactor Overload Alarm Washer Stage 2 Pump Contactor Overload Alarm Washer Stage 3 Pump Contactor Overload Alarm Washer Stage 4 Pump Contactor Overload Alarm Washer Stage 1 Burner Fan Contactor Overload Alarm Washer Stage 3 Burner Fan Contactor Overload Alarm Washer Entrance Exhaust Fan Contactor Overload Alarm Washer Exit Exhaust Fan Contactor Overload Alarm Washer Stage 1 High Gas Pressure Alarm Washer Stage 1 Low Gas Pressure Alarm Washer Stage 1 Low Water Alarm Washer Stage 1 Honeywell Control Relay Alarm Washer Stage 1 Temperature Input Error Alarm Washer Stage 3 High Gas Pressure Alarm Washer Stage 3 Low Gas Pressure Alarm Washer Stage 3 Low Water Alarm Washer Stage 3 Honeywell Control Relay Alarm Washer Stage 1 Temperature Input Error Alarm Washer Stage 3 Temperature Input Error Alarm Washer Stage 1 Low Alarm Bit Washer Stage 2 Low Alarm Bit Washer Stage 3 Low Alarm Bit Washer Stage 4 Low Alarm Bit Washer Entrance Airflow Alarm Bit Washer Exit Airflow Alarm Bit

Conveyor

Conveyor Frequency Drive Faulted (Must Reset) Touchscreen Panel Emergency Stop Depressed (Must Reset)