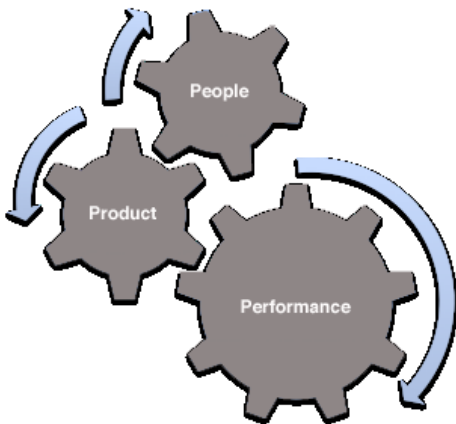




SERVICE MANUAL

SETUP GUIDE

81667A BALE BARCODE SCANNER 2



SAMUEL JACKSON

81667A BALE BARCODE SCANNER 2

To install a Samuel Jackson Bale Barcode Scanner 2, follow the steps below.

Mount the bale scanner near the bale conveyer on the side that the bale tag will be affixed. Be sure that the face of the scanner is **not more than 15 inches away from the bale**. However, you need to be sure that the scanner is far enough away that the red scan line can span the width of the barcode.

If you have a Tex-Max microwave bale moisture sensor, an arm is provided that can be used to mount the barcode scanner to the Tex-Max stand at an appropriate distance.

The fiberglass PLC enclosure should be mounted nearby to the scanner for connection as well as easily visible and accessible by operators for touchscreen operation.

Run the scanner cable from the scanner PLC box to the barcode scanner. Plug the cable into the barcode scanner. The scanner cable should be pre-wired to the wiring blocks in the PLC box. Disconnecting these wires may make installation easier. The correct wiring is given on the barcode scanner wiring diagram at the back of this guide.

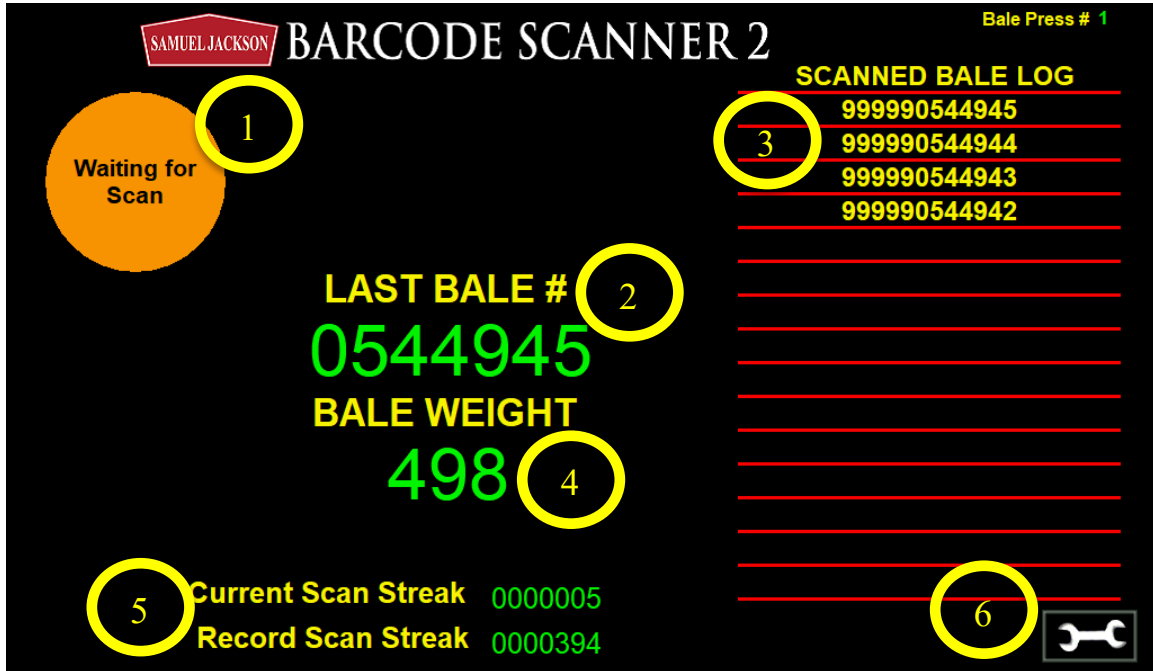
If not already installed, an LED strip light is to be mounted on the included scanner bracket. The light cable should be connected to the LED strip light and terminated to the wiring blocks in the PLC box per the wiring diagram at the back of this guide.



Next, run a CAT5 cable from the network switch in the PLC enclosure to the Sam Jackson main network switch. Note that the cable should not exceed 300 feet in length.

Apply 115 60/50 Hz AC power to the bottom of the circuit breaker in the top right corner of the PLC box and turn on the circuit breaker in the PLC box. Refer to the hookup flowchart in this guide for a basic view of the various connections.

HOME SCREEN LAYOUT



1 – “Waiting for Scan” Indicator: While the barcode scanner or signal source is waiting for a scan, this indicator will flash orange. A good scan will be indicated when this indicator turns green.

2 – Last Bale #: This is the bale number of the last good scan.

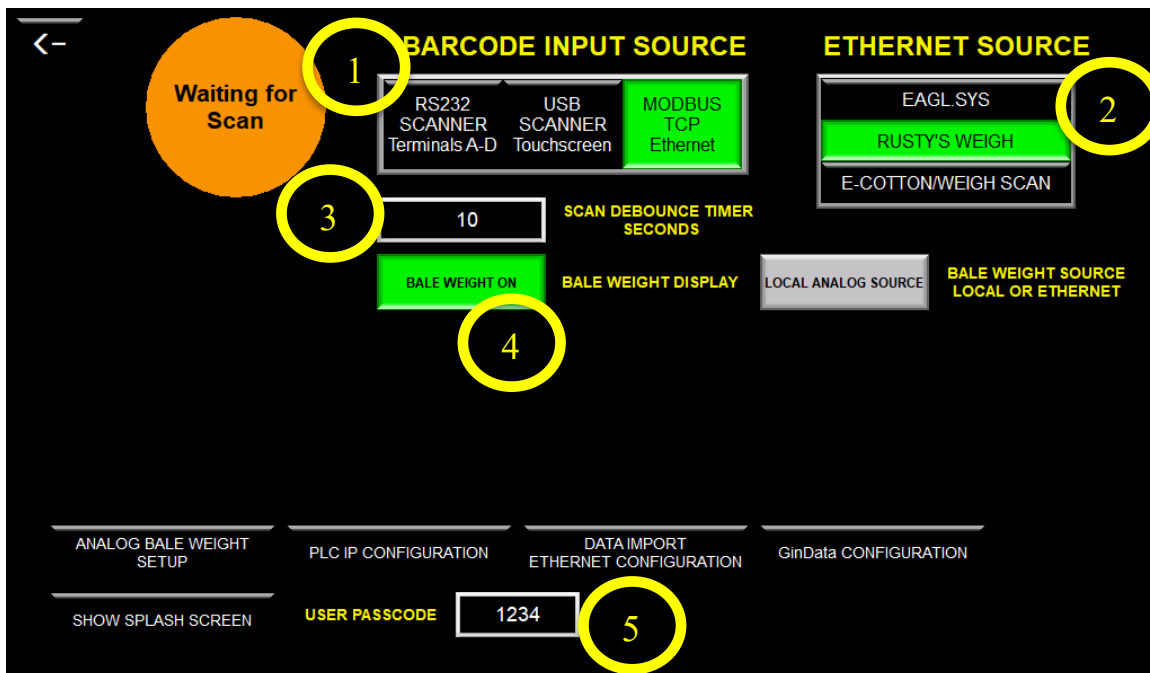
3 – Scanned Bale Log: This is the log of the full Bale Id in the order that they are scanned.

4 – (Optional) Bale Weight Display: When this feature is enabled with a 4-20mA or Ethernet external data source. The bale weight can be displayed to the operator.

5 – Scan Streaks: These values keep track of the current record continuous scan streaks indicated by good scans in good sequential order. This is primarily used for manual scanner with the bar code scanner.

6 – Settings Menu: This button is used to access the settings menu. See Settings Screen section below.

SETTINGS SCREEN

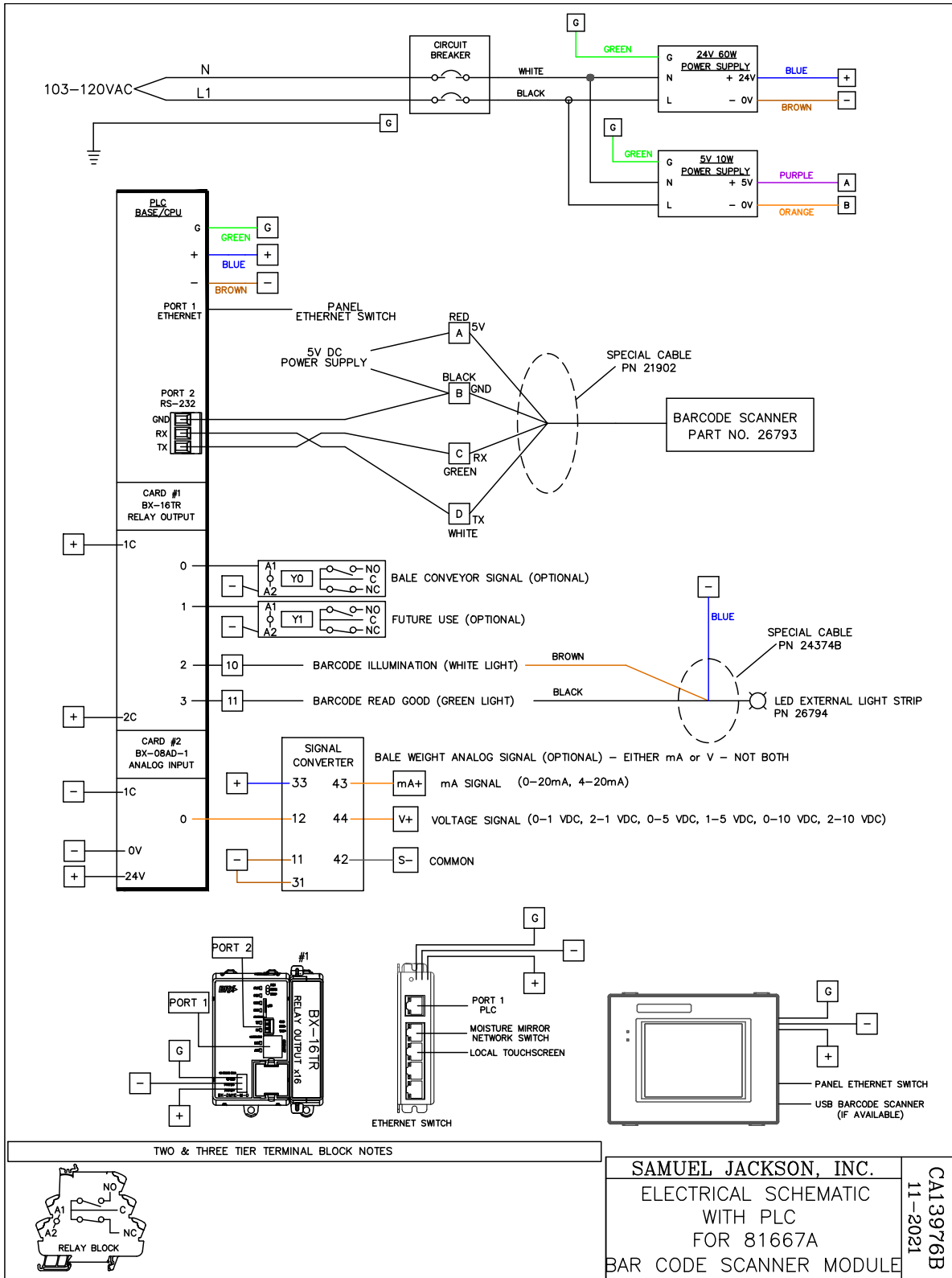


- 1 – Barcode Input Source:** There are 3 options for the source of the bale bar code:
 - RS232 Scanner: A bar code scanner comes standard with the control panel and is connected to the 4 terminals shown on the electrical schematic.
 - USB Scanner: A USB scanner can be connected to the USB port on the back side of the touchscreen.
 - MODBUS TCP/Ethernet: An ethernet connection can be made from this control panel via the optional Ethernet POM module to the network with the bar code source. This will also allow for additional data from the source to be transferred into the bar code scanner control panel.
- 2 – Ethernet Source:** When MODBUS TCP/Ethernet is selected from above, the data source from the Ethernet connection is selected here. This is used to specify incoming port numbers, data string type, and data fields.
- 3 – Scan Debounce:** This is the time in seconds from a good scan until it allows for another scan to be processed.
- 4 – Bale Weight Display:** This enables the display of the bale weight on the home screen. The bale weight must be selected from either Local Analog Source (4-20mA) or Ethernet from the Ethernet source.
- 5 – User Passcode:** User changeable pass code for access into the settings screen.

RESET SCANNER DEFAULTS



Set All Defaults



IMPORTANT!

The following notice affects your warranty.

Electrical Controls and Your Safety

Your new Sam Jackson product may be equipped with electrical controls, or designed to interact with controls on a related Sam Jackson product.

In the event that local, state, federal or other specified safety compliance is required, we will consider modifications to meet the particular requirements. Implementation of alternative safety devices may incur additional charges. No warranty of compliance with a particular standard is made in the absence of specific reference to it in our quotation.

If you modify, or permit others to modify, these controls without specific written permission from Sam Jackson, Inc. the warranty on your product will be void and there is a possibility of serious damage to machinery, damage to product, serious injury to personnel, or death. The modifier of the controls assumes all liability for these consequences.

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