



PRODUCTIVITY THROUGH INNOVATION

600 CONTROL
DIRECT DRIVE
TECHNICAL/OPERATION MANUAL



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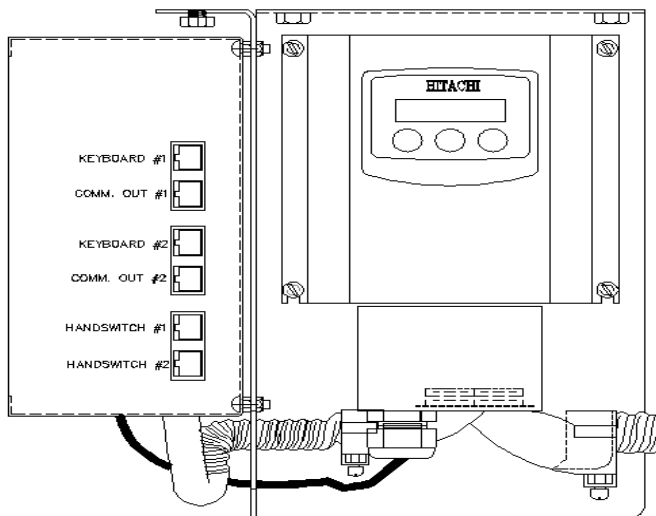
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INTRODUCTION

The 600 Series control is designed to work with the direct drive conveyors. The 600 Series Control is a microprocessor-based control that stops the conveyor at a designated picking station. The conveyor will move either clockwise (CW) or counterclockwise (CCW), and the chosen slot or frame will automatically travel the shortest route and stop at the picking station.

Nonvolatile memory (EEPROM) is provided. If power is interrupted or the control is disconnected the program will be retained in memory. When the power is restored, reprogramming is not required unless the conveyor has been manually advanced while the 600 Control was disconnected.

Four pieces make up the 600 Control; the **600 keyboard**, **hand switch**, **inverter interface**, and the **inverter**. Other optional accessories can be, **footswitches**, or additional 600 keyboards. A maximum of two 600 keyboards can be used on one conveyor and a maximum of two handswitches and/or one footswitch can be added to a conveyor controls package. If using the **PC interface** option, only the computer connected to the inverter interface (**keyboard #2 port**) will be able to send the data to initiate the pick at the 600 keyboard. After the data is transferred you will see the word **“PICK”** flashing on the 600 keyboard, at this point by pressing the button below the word pick on the 600 keyboard the conveyor will go to the first slot stored in the pick memory.



1.0 UNDERSTANDING THE DISPLAY AND INDICATORS

The main screen (example shown in **Figure 1.0**) on the 600 keyboard allows for manual or automatic picking control. This section will explain the features of the main screen.

MAIN SCREEN

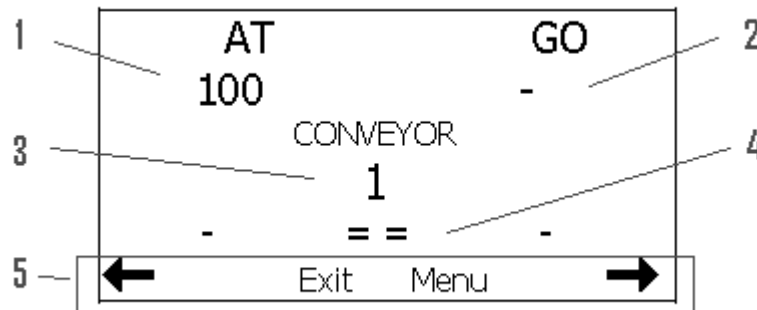


FIGURE 1.0

- 1 - The **top left** of the screen displays the “**AT**” location. This can be a slot, or frame value of where the conveyor frame is currently at.
- 2 - The **top right** of the screen shows the “**GO**” location the conveyor frame is moving to.
- 3 - The **center** of the screen displays the **conveyor ID number**. When controlling a single conveyor this number should always be “**1**”.
- 4 - **Below** the conveyor ID number is the **600 keyboard status**. When it displays “**ON**” then this “**600 keyboard**” has control of the conveyor. If it displays “**LOCKED**” then another “**600 keyboard**” or hand switch device has control of the conveyor. If this display displays “**EMER-STOP**” then another device has the emergency stop pushed in. This could also mean that the handswitch jumper is not in place. When the display shows “**two dashes**”, **another device has released control and this 600 keyboard is able to obtain control of the conveyor. This 600 keyboard cannot control the conveyor until the other device releases control of the conveyor.**
- 5 - The **bottom row** of the screen is used to configure the programmable buttons. The **programmable buttons** are the top row of blue oval buttons.
Below the display screen are three rows of keys. These keys are the numeric keys and also the “**ENTER**” and “**CLEAR**” keys.
The “**STOP**” button is located at the **bottom of the 600 keyboard**. The “**STOP**” button can be used to stop the conveyor from moving when this 600 keyboard has control of the conveyor. When this 600 keyboard has control of the conveyor the “**STOP**” button must be used to release control of the conveyor by holding the “**STOP**” button for **3 seconds**.

2.0 PROGRAMMING INSTRUCTIONS

The 600 Series Control must be **programmed via the 600 keyboard** to automatically control the movement of the conveyor frame from any location to a fixed picking station. Programming the 600 interface can be done at different levels; Customer, Installer, and Manufacturer. This manual will explain only the customer features.

The picking station can be located at any point in the conveyor configuration. The slot or frame is **numbered consecutively** starting at **“1” (or any higher number)** to a **maximum of 9999**.

THE 600 CONTROL MUST BE PROGRAMMED:

- A. Upon Installation, or
- B. Numbering system is changed, or
- C. If a picking station is relocated, or
- D. If there is a malfunction.

When power to the conveyor is initially turned **ON**, the display will show the **“WHITE”** logo screen. The 600 Control is ready to be programmed by accessing the menu area. To clear the logo, press any key on the 600 keyboard.

To enter the menu area, press the button directly below the **“menu”** text on the screen. If the graphic screen is displayed then press any key on the 600 keyboard to display the operation screen.

2.1 PASSWORDS

The **three programmable** menu areas are **‘customer’**, **‘installer’**, and **‘manufacturer’**. Each menu is protected by a password that prevents the user from accidentally altering the conveyor settings. The **default passwords** are as follows: **Customer password is “1”, Installer password is “2” and Manufacturer password is “3”**. If the **‘customer’** password has been **changed** and the password has been forgotten then you can still access the **‘customer’** area by entering the **‘installer’** menu area using the **‘installer’** password. **If all three passwords have been changed and forgotten then the 600 keyboard would need to be reprogrammed from the factory at the repaired 600 keyboard price.**

The customer features are selected by pressing the “1” key on the 600 keyboard. Example shown in (Figure 2.1).

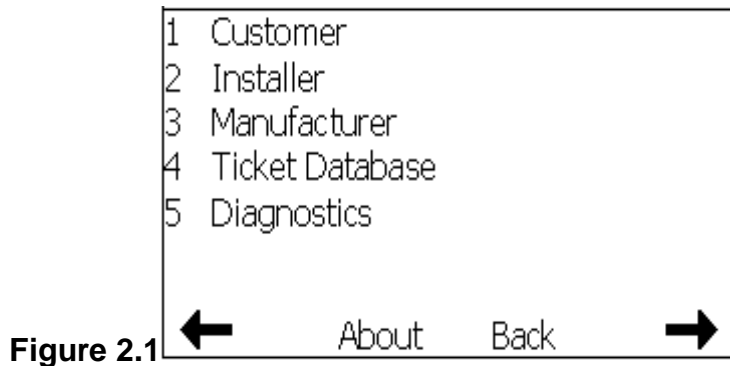


Figure 2.1

When the 600 keyboard prompts for a **password**, please enter the default factory password of “1”. The first menu screens will provide access to the **changeable customer parameters**. **Diagnostics** screens can also be accessed from this screen. Diagnostics can help **resolve the problem before the need to call for support**. The diagnostics features are explained later in his manual.

The “**ABOUT**” feature will display the current 600 keyboard software version and date of the software revision. Example shown in (Figure 2.1a).

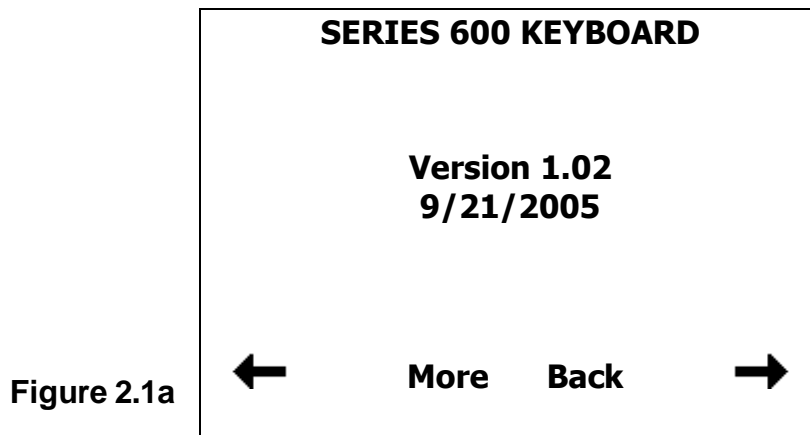


Figure 2.1a

From this screen press “**MORE**” and it will display the current Inverter Interface software version and date of the software revision. Example shown in (Figure 2.1b).



Figure 2.1b

Features that can be changed by the customer are the conveyor size, current location, and their password. Example shown in (Figure 2.1c).

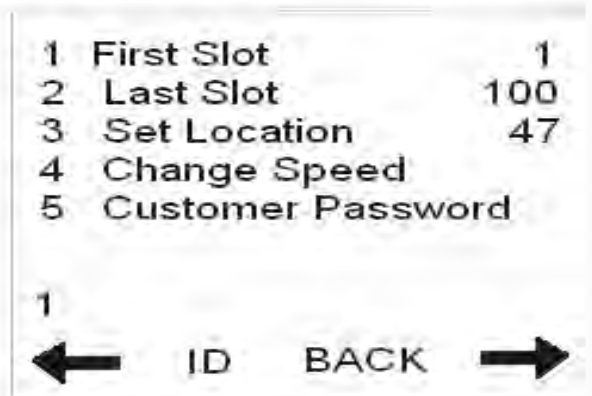


Figure 2.1c

To **edit the desired feature** press the number to the **left** of the menu item you would like to change. If you conveyor had 100 slots you would change the first slot at “1” by pressing the “1” key from this menu. The display will then prompt you to enter the value. You enter a “1” and press “ENTER”. To program the last slot press “2” from this menu and when prompted to enter the number type a “1” a “0” and a “0” and press “ENTER”. The “Set Location” is your current slot number where your 600 keyboard is located. To program the “Set Location” press “3” from this menu and type in the current slot number at your 600 keyboard location (**example 47**) and press “ENTER”.

The first slot is usually set to “1”, but if you have multiple conveyors that count consecutively then your first number may start at “301” and your last number might be “600”. Make sure when you count consecutively that you also setup your “Set Location” to a valid number between **301** and **600** for this conveyor

When completed with the conveyor programming, return back to the main screen by pressing the “BACK” button.

PROGRAMMING IS COMPLETE!!!

3.0 USING DIAGNOSTIC FEATURES

The diagnostic features can help resolve problems before calling for support. The diagnostics screen can be accessed from the customer menu screen option four. Example shown in (Figure 3.0).

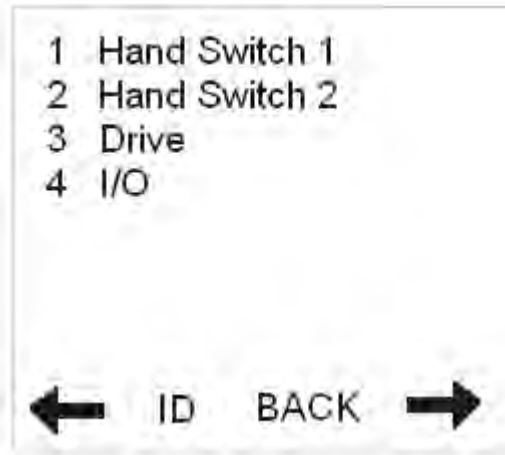


Figure 3.0

From this menu screen there are four choices.

Option 1 will display the diagnostics screen for hand switch number one if it is attached. See screen below. Example shown in (Figure 3.0a).

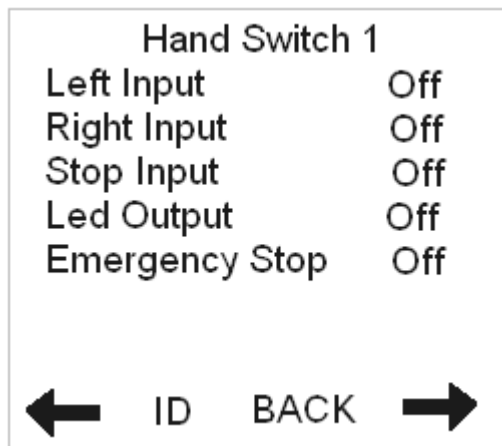


Figure 3.0a

The left side shows the diagnostic feature and the right side shows the status of the signal. The status of the signal can only be an “On” or an “Off” value.

Hand Switch one and Hand Switch two screens show the same data, but for different devices.

The Drive diagnostics screen shows the status of the count sensor, the direction sensor, the slow speed output, the left signal output and the right signal output. Example shown in (Figure 3.0b).

Count Sensor	Off
Direction Sensor	Off
Slow Output	Off
Left Output	On
Right Output	Off

← ID BACK →

Figure 3.0b

The I/O diagnostic screen displays the status of the foot switch left and right signals, inputs number one and two, and output number one and two. Example shown in (Figure 3.0c).

Foot Switch Left	Off
Foot Switch Rt	Off
Input 1	Off
Input 2	Off
Output 1	Off
Output 2	Off

← ID BACK →

Figure 3.0c

4.0 600 SERIES KEYBOARD “PICK” FUNCTION

The 600 keyboard allows the use of a “**PICK**” function to **store up to one hundred slot locations** in a queue and allow the operator to call these slots one at a time at the 600 keyboard location.

* This feature is only available in 600 keyboards with software **version 1.01 or greater** and Inverter Interfaces with software **version 1.04 or greater**.

4.1 Entering “PICK” Slots from the Keyboard:

Type in the slot to add to the “**PICK**” queue and push the function button directly below where the 600 keyboard says “**STORE**”. Repeat above with all slots that are to be entered in pick queue.

4.2 Retrieving “PICK” slots on the Conveyor:

When there are slots stored in the “**PICK**” queue, the keyboard will either flash or blink. The keyboard can be set to either flash or blink in the customer menu on the keyboard. To retrieve the first “**PICK**” location, push the function button directly below where it says, “**PICK**” on the main display. The conveyor will now move to the first “**PICK**” slot. When the conveyor arrives at the first slot, the next “**PICK**” slot will show on the display and can be retrieved by pushing the function button directly below where it says, “**PICK**” on the main display. The display will either flash or blink until the “**PICK**” queue has been emptied.

4.3 Selecting Keyboard Mounting Location when using Interface/POS

When the conveyor(s) are interfaced with a **POS(Point of Sale)**, the 600 keyboards need to be located on the conveyors because when multiple slots are sent to the conveyor(s) the operator can press the “**PICK**” button to retrieve slots. Whereas if the 600 keyboard(s) were mounted near the counter the operator would have to walk to the 600 keyboard to press, “**PICK**” then walk back to the conveyor to get garments.

4.4 Selecting 600 Keyboard Mounting Location for standard 600 Series(No POS/Interface) The 600 Series Keyboard can mounted on the conveyor or wall mounted, depending on where it is most convenient for you store.

5.0 BASIC TROUBLESHOOTING GUIDE

The operator can resolve most 600 Control problems through the built in diagnostic screens. If you are experiencing problems, try the following:

1. Reprogram the 600 keyboard according to instructions.
2. Check the cable to see if it's unplugged from the back of the inverter interface board or damaged, frayed, or pinched in any way. Also check all additional handswitches of 600 keyboards if they are attached.

Also check:

1. Do the left and right arrow keys move the conveyor when pressed?
2. If the conveyor moves left or right, do the numbers in the display increase as the conveyor moved clockwise (**lower to higher**)?
3. Do the numbers in the display decrease as the conveyor moves counter-clockwise (**higher to lower**)?
4. Does the hand and / or foot switch operate properly?

NOTE:

The next section isolates specific problems that one could possibly encounter with the 600 Control. The following steps may relate to the symptoms that you are experiencing. If these do not work, call:

WHITE CONVEYORS INC., SERVICE DEPARMENT

TELEPHONE # 800-524-0273 FAX # (908) 686-9317

**WHITE CONVEYORS INC.
10 BORIGHT AVENUE
KENILWORTH, NJ 07033**

6.0 ADVANCED TROUBLESHOOTING GUIDE

NOTE: To use this guide, determine the problem from the list below and go to the appropriate page.

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6.1 CONVEYOR ROTATES IN WRONG DIRECTION

Swap motor leads **T1** and **T2** on the Inverter terminals going to the motor leads.

6.2 600 CONTROL COUNTS BACKWARDS

Interchange the gray and green encoder wires at the terminal plug on the interface.

6.3 CONVEYOR DOES NOT MOVE AT ALL

A. 600 Control has no display functions nor is there any indication of power.

1. There is a plug in transformer that connects to the 600 Control Interface, ensure that it is plugged into outlet and that connector is plugged into the 600 Control.
2. If there is not **A/C power** coming from outlet then a wiring change must be made.
3. If there is no **D/C power** coming from transformer then replace transformer.

B. If 600 Control has display but conveyor will still not move.

1. Ensure that inverter interface has power. There is a **“POWER” LED** on the inverter interface, located next to the inverter, to indicate that power is available for the system. If this **LED** is not lit, check that the power cord for inverter interface is plugged in.
2. If there is not AC power coming from outlet then a wiring change must be made.
3. If there is AC power coming from the outlet, ensure that the inverter has a display. If there is no display then contact White Conveyors Inc. If there is an error on the inverter display then refer to the error code list to determine the error.

C. Mechanical problem.

Check for obvious mechanical problems. If no problems are obvious then call White Conveyors Inc.

6.4 600 CONTROL DISPLAY ERRATIC

A. Improper A/C power.

Check the **incoming A/C power** line. If the line voltage is **less than 105VAC** this may cause power problems.

B. Defective 600 Control

Reset the 600 Control by pressing the reset button on the back of the unit or by turning the power off and then again. If the 600 Control does not stabilize, it may need to be replaced.

6.5 CONVEYOR RUNS ONE DIRECTION ONLY

A. Defective inverter.

Using a foot switch, hand switch, or 600 Control; activate conveyor to go **“LEFT”** or **“RIGHT”**.

B. Defective foot or hand switch.

Disconnect the three wires from the terminal on the inverter interface that come from the hand or foot switch. When one direction is selected from the hand or foot switch, check for continuity between the black wire and the red wire, and then check between the black and white wires. If you have tried both directions on the hand or foot switch and there is not continuity then the hand or foot switch needs to be replaced.

C. Defective 600 control.

Press **L** or **R** key; the “**FORWARD**” or “**REVERSE LED**” on the inverter interface should light. If not, the 600 Control may have to be replaced.

Defective inverter interface or inverter.

Contact the White Conveyors Inc. service department.

6.6 COUNT AND DIRECTION LEDS DO NOT LIGHT

A. Defective encoder

1. Check to see if the four wires coming from the encoder (**white, brown, gray, and green**) are not loose from the connector on the inverter interface.
2. If wires are not loose, ensure that connector is not loose from the inverter interface.

B. Defective inverter interface

1. If “**FORWARD**” or “**REVERSE LED**” still **do not illuminate**. By using a meter and placing one meter lead on the terminal with the brown wire and the other lead on the terminal with either the gray or greens wire, by moving the conveyor by hand the meter should read **0-12VDC** as the conveyor moves.
2. If the meter reads **0-12VDC** with the conveyor moving, then the inverter interface might need to be replaced.
3. If the meter does not read **0-12VDC** then the encoder might need to be replaced.

6.7 CONVEYOR DOES NOT STOP AT PROGRAMMED LOCATION

A. Defective encoder

1. Check to see if the **four wires** coming from the **encoder (white, brown, gray, and green)** are not loose from the **connector** on the **inverter interface**.
2. If wires are not loose, ensure that connector is not loose from the inverter interface.

B. Defective inverter interface

1. If “**FORWARD**” or “**REVERSE LED**” still **do not illuminate**. By using a **meter** and placing one meter lead on the terminal with the **brown wire** and the other lead on the terminal with either the **gray or greens wire**, by moving the conveyor by hand the meter should read **0-12VDC** as the conveyor moves.

2. If the meter reads **0-12VDC** with the conveyor moving, then the inverter interface might need to be replaced.
3. If the meter does not read **0-12VDC** then the encoder might need to be replaced.

C. Defective 600 Control.

Reprogram the 600 Control. If this does not work then 600 Control might need to be replaced.

6.8 600 CONTROL WILL NOT RETAIN PROGRAM

A. Program not retained after a power down situation.

1. When power is restored, 600 Control must be reprogrammed every time.
2. Defective nonvolatile memory, replace the 600 control.

B. Program is randomly lost.

1. Erratic power line, which causes the 600 Control to crash and change the programming.
2. **Replacing** the 600 Control (**probably won't correct the problem**).
3. Correct the power line problem.

6.9 DISPLAY WILL NOT LIGHT UP

Defective plug in power supply.

Check for **12VDC** at the power connector. Replace if necessary.

6.10 600 CONTROL WILL NOT PROGRAM OR WORK AT ALL

Re-initialize the control according to the programming instructions provided. If this fails, replace the 600 Control.

6.11 600 CONTROL WILL NOT COUNT

A. Defective encoder

1. Check to see if the four wires coming from the encoder (**white, brown, gray, and green**) are not loose from the connector on the inverter interface.
2. If wires are not loose, ensure that connector is not loose from the inverter interface.

B. Defective inverter interface

1. If “**FORWARD**” or “**REVERSE LED**” still **do not illuminate**. By using a meter and placing one meter lead on the terminal with the brown wire and the other lead on the terminal with either the gray or greens wire, by moving the conveyor by hand the meter should read **0-12VDC** as the conveyor moves.
2. If the meter reads **0-12VDC** with the conveyor moving, then the inverter interface might need to be replaced.
3. If the meter does not read **0-12VDC** then the encoder might need to be replaced.

C. Defective 600 Control

If the encoder and the inverter interface check out then check cable connection between 600 Control and inverter interface. If cable is not problem then 600 Control might need to be replaced.

6.12 CONVEYOR STOPS AT PROPER LOCATION INTERMITTANTLY

A. Defective encoder

1. Check to see if the four wires coming from the encoder (**white, brown, gray, and green**) are not loose from the connector on the inverter interface.
2. If wires are not loose, ensure that connector is not loose from the inverter interface.

B. Defective inverter interface

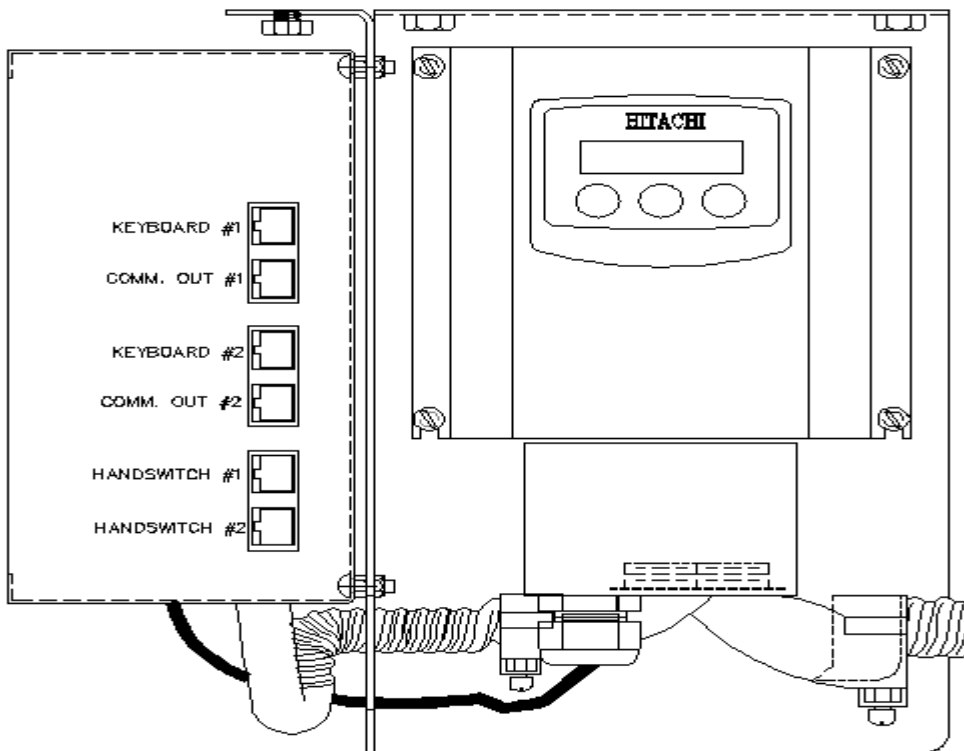
1. If “**FORWARD**” or “**REVERSE LED**” still do **not illuminate**. By using a meter and placing one meter lead on the terminal with the brown wire and the other lead on the terminal with either the gray or greens wire, by moving the conveyor by hand the meter should read **0-12VDC** as the conveyor moves.
2. If the meter reads **0-12VDC** with the conveyor moving, then the inverter interface might need to be replaced.
3. If the meter does not read **0-12VDC** then the encoder might need to be replaced.

C. Possible Defective 600 Control.

Reprogram the 600 Control. If this does not work then 600 Control might need to be replaced.

7.0 PICTURES OF COMPONENTS

Inverter Interface and Inverter



8.0 HITACHI INVERTER TROUBLESHOOTING

The inverter is set at the factory to display the current frequency. If for some reason the conveyor does not rotate then there may be an error message displayed on the inverter. See the table below to determine what each error message means.

Error Code	Name	Cause(s)
E01	Over current event while at constant speed	The inverter output was short-circuited, or the motor shaft is locked or has a heavy load. These conditions cause excessive current for the inverter, so the inverter output is turned OFF. The dual-voltage motor is wired incorrectly.
E02	Over current event during deceleration	
E03	Over current event during acceleration	
E04	Over current event during other conditions	
E05	Overload protection	When a motor overload is detected by the electronic thermal function, the inverter trips and turns OFF its output.
E07	Over voltage protection	When the DC bus voltage exceeds a threshold, due to regenerative energy from the motor.
E08	EEPROM error	When the built-in EEPROM memory has problems due to noise or excessive temperature, the inverter trips and turns OFF its output to the motor.
E09	Under-voltage error	A decrease of internal DC bus voltage below a threshold results in a control circuit fault. This condition can also generate excessive motor heat or cause low torque. The inverter trips and turns OFF its output.
E11 E22	CPU error	A malfunction in the built-in CPU has occurred, so the inverter trips and turns OFF its output to the motor.

Error Code	Name	Cause(s)
E12	External trip	A signal on an intelligent input terminal configured as EXT has occurred. The inverter trips and turns OFF the output to the motor.
E13	USP	When the Unattended Start Protection (USP) is enabled, an error occurred when power is applied while a Run signal is present. The inverter trips and does not go into Run Mode until the error is cleared.
E14	Ground fault	The inverter is protected by the detection of ground faults between the inverter output and the motor during powerup tests. This feature protects the inverter, and does not protect humans.
E15	Input over-voltage	When the input voltage is higher than the specified value, it is detected 100 seconds after powerup and the inverter trips and turns OFF its output.
E21	Inverter thermal trip	When the inverter internal temperature is above the threshold, the thermal sensor in the inverter module detects the excessive temperature of the power devices and trips, turning the inverter output OFF.
E35	Thermistor	When a thermistor is connected to terminals [5] and [L] and the inverter has sensed the temperature is too high, the inverter trips and turns OFF the output.
---	Under-voltage (brown-out) with output shut-off	Due to low input voltage, the inverter turns its output OFF and tries to restart. If it fails to restart, then the alarm trips to record the under-voltage error event.

9.0 PC/POS INTERFACE “PICK” Function Installation Instructions

The 600 keyboard can be interfaced to a **PC/POS(Personal Computer/Point of Sale company)**, this will allow **“ONE” Computer** to send **“PICKS”** to **“Multiple” conveyor/600 keyboards**. It will **“NOT”** allow **“Multiple” Computers** to send **“PICKS”** to **“ONE” Conveyor/600 keyboard** or **“Multiple” Conveyors/keyboard**. **The 600 keyboard can be interfaced to a PC by ordering the “PC INTERFACE PACKAGE”**. Call White Conveyors Inc at **908-686-5700 & order part # 9000-40-AA**.

600 Series Keyboard “PICK” Function and Computer Interface

The **600 Series Keyboard** allows the use of a **“PICK”** function to store up to one hundred slot locations in a queue and allow the operator to call these slots one at a time at the **“600 keyboard”** location.

*** This feature is only available in Keyboards with software version 1.01 or greater and Inverter Interfaces with software version 1.04 or greater.**

Entering “PICK” Slots from the Keyboard:

Type in the slot to add to the **“PICK”** queue and push the function button directly below where the keypad says **“STORE”**. Repeat above with all slots that are to be entered in pick queue.

Entering “PICK” Slots from a PC:

The adapter has to be plugged in with the 9-pin connector to an available serial port on the **PC**. Connect one end of **RJ-45 network cable** to the **RS232/485 adapter**, and the other to the **“Keyboard 2”** port on the inverter interface. Now it's time to **configure** your PC communication's port. From the desktop on your PC, click on **“START”** button. From the start menu click on **“control panel”**, in control panel click on **“SYSTEM”**, next click on the **“Hardware”** tab. Now click on **“Device manager”** tab, once you are in **“Device Manager”** click on **PORTS (COM & LPT)** then click on the **“COM”** port you plugged RS232/485 adapter into on the PC (for example COM 1). next click on the **“Port Settings”** tab. Go to the **“Bits per second”** drop down menu and choose **“19200” baud rate and click O.K.** You are done configuring your PC's comport. Next, copy the software named **“WC600.exe”** into a folder on the PC you are using. **“COM 1”** is the **“default”** gateway for the **“WC600.exe”** to communicate thru. If **“COM 1” is not** available, and you have to connect the to **“COM 2”**, or any other available **“COM”** port, by adding a space, and then a **“2”** after the **“.EXE”**, then save your change. It should look like this **(WC600.exe 2)**. Now the **“WC600.exe 2”** is set up to communicate thru **“COM 2”**. This change will apply

to any “**COM**” port number that you wish to use, as long as **RS232/485 adapter** is plugged into the same number “**COM**” port. For example, if your **RS232/485 adapter** is plugged in “**COM 3**” your “**WC600.exe**” should look like this; “**WC600.exe 3**”. Don’t forget to change the “**COM**” port settings to the applicable “**COM**” port. Now, to run the “**WC600.exe**” open the folder it is in, and double click on the **ICON** labeled “**WC600.exe**”. The software will then run in a minimized state. To send slots, open “600_sample.txt” and save as file named “**600**” in the same directory as the “**WC600.exe**” file. Each line of the text file will be a single pick location. The slot location needs to be written as (conveyor number)-(slot number), so slot number “123” on conveyor “1” will be entered “1-123” in the text file. If you have 2,3 and maybe 4 conveyors, change the conveyor number in your text file, it should look like this: (2-123) or (3-123). As soon as this text file is saved, the interface software will read in this data, send it to the conveyor, and then delete the file from the directory (**your saved file will appear, and then disappear**). This means your PC sent the “**PICK**” data to the “**600 keyboard**” at which time you will see “**PICK**” flashing on the designated conveyors “**600 keyboard**”. Now you are ready to “**PICK**”.

Retrieving “PICK” slots on the Conveyor:

When there are slots stored in the “PICK” queue, the keyboard will either flash or blink. The keyboard can be set to either flash or blink in the customer menu on the keyboard. To retrieve the first “PICK” location, push the function button directly below where it says “PICK” on the main display. The conveyor will now move to the first “PICK” slot. When the conveyor arrives at the first slot, the next “PICK” slot will show on the display and can be retrieved by pushing the function button directly below where it says “PICK” on the main display. The display will either flash or blink until the “PICK” queue has been emptied.

9.1 “PC INTERFACE PACKAGE”

9000-40-AA Consists of the following:

9000-27-PA Adapter, PC To 602 Interface

9000-28-PA Software CD 602 Instructions

You will also need a **Cat 5** cable depending on the length of the conveyor and where the **PC/POS** resides in the building in relation to the first conveyor, use one of the following Part #'s.

2095-60-AA CAT5 CABLE ASSY, 15'

2095-61-AA CAT5 CABLE ASSY, 25'

2095-62-AA CAT5 CABLE ASSY, 50'

2095-63-AA CAT5 CABLE ASSY, 75'

2095-64-AA CAT5 CABLE ASSY, 100'

2095-65-AA CAT5 CABLE ASSY, 125'

2095-66-AA CAT5 CABLE ASSY, 150'

2095-67-AA CAT5 CABLE ASSY, 175'

2095-68-AA CAT5 CABLE ASSY, 200'

*See section **9.3 WIRING DIAGRAM “PC INTERFACE PACKAGE”** For wiring diagram.

9.2 Entering “PICK” Slots from a PC:

9.2 600 KEYBOARD SET-UP FOR INTERFACE

How to **ID** a Conveyor 600 keyboard

Press **“MENU”**

Then **#3** Manufacture Password **3** Hit **“ENTER”**

Then **#1** Installer Menu

Then **#4** ID Conveyors

Press **“SET”** to **ID** only **“1”** Conveyor then enter the Conveyor you are currently working on **“1”** or **“2”** or **“3”** Etc. **“ENTER”**

Save the Conveyor ID are you sure? Press **“SAVE”**

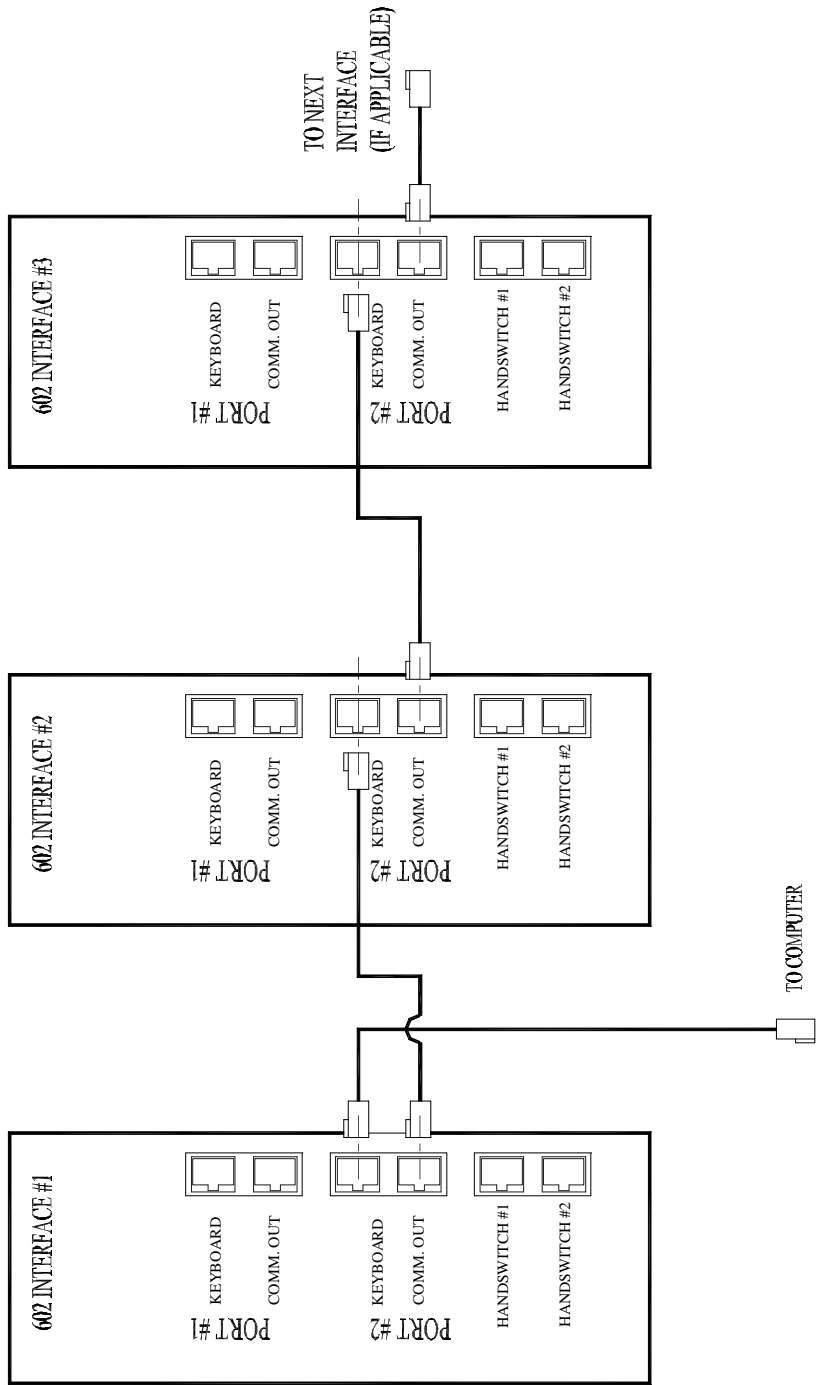
Press the **“BACK”** Button **3** times to get to the **Main Screen**.

Now you need to talk to that Conveyor. To do so set the **ID** by

Pressing the number of the Conveyor you are currently working on (**EXAMPLE IF YOU ARE WORKING ON CONVEYOR 3 PRESS #3**)

Then press **“ID”** (Now you are talking to Conveyor #3)

9.3 COMMUNICATION WIRING DIAGRAM “PC INTERFACE PACKAGE”



602 INTERFACE (INTERFACES) TO COMPUTER WIRING
WITH CAT5 CABLES