This manual is prepared for the use of trained Authorized Traulsen Service Agents and should not be used by those not properly qualified. This manual is not intended to be all encompassing, but is written to supplement the formal training, on-the-job experience and other product knowledge acquired by Authorized Traulsen Service Agents. Before proceeding with any work, you should read, in its entirety, the repair procedure you wish to perform to determine if you have the necessary tools, instruments and skills required to perform the procedure. Only a trained Authorized Traulsen Service Agent should perform procedures for which you do not have the necessary tools, instruments and skills. Reproduction or other use of this manual without the express written consent of Traulsen, is prohibited.
I. GENERAL INFORMATION

I. a–INTRODUCTION:
A Traulsen Blast Chiller will come standard with one printer, the record printer. All SmartChill® controls have the option to enable or disable the use of a second printer, the label printer.

When facing the front of the unit the record printer is located in the left printer housing and the label printer is in the right printer housing.

Both printers, record and label, have the same part number 950-60355-00 and are interchangeable with the exception of any RBC50 models manufactured prior to 2008, with 90 degree printer boards in which case the part number is 950-60408-00.

I. b–OPERATION:
SmartChill® printers are thermal printers, meaning no ink is required. Upon receipt of a signal from the SmartChill® control, the printers will print specified data. The record printer ONLY uses 2 ¼” thermal paper and the label printer ONLY uses 2 ¼” Traulsen thermal label stock part number 400-60004-00.

The record printer will print power on diagnostics information, single batch data, and twelve hour data logs.

The label printer will print single batch product labels, that may be applied on food containers.

I. c–CLEANING:
Dirt and debris can build up on the feed roller and cutting wheel cartridge and impede normal operation. Clean only with electric contact cleaner using a lint free cloth.

I. d–APPLICABLE MODELS:
This manual applies to the following Traulsen models:

RBC50 Undercounter Blast Chill Model
RBC100 Reach-In Blast Chill Model
RBC200 Roll-In Blast Chill Model
RBC200RT Roll-Thru Blast Chill Model
RBC400 Roll-In Blast Chill Model
RBC400RT Roll-Thru Blast Chill Model

NOTE: This manual refers to the above models built after June 2003, equipped with the SmartChill® control. For information regarding models built prior to that date please contact the factory at 800-825-8220.

I. e–TOOL REQUIREMENTS:
• Basic hand tools
• AC/DC VOM

I. f–ENABLE-DISABLE LABEL PRINTER:
The FACTORY SETTINGS MODE allows service personnel to return various control settings to their factory preset parameters.
I. GENERAL INFORMATION (cont’d)

I. f–ENABLE-DISABLE LABEL PRINTER (cont’d):
To enter from the keypad, press “MORE” from the “MAIN MENU”. Press “SETUP”, and change the “PASSWORD (PIN)” to “85”. Press and hold the upper left, upper right and lower right keys simultaneously. Then release all keys. Display will read as follows:

```
FACTORY SETTINGS
VERSION:
< S/N:
< RESET NEXT >
```

Press “NEXT”, this will bring you to the Label Printer option screen:

```
$ LABEL PRINTER (NO)
< RESET NEXT >
```

Press the up or down arrow to toggle between “LABEL PRINTER (NO)” and “LABEL PRINTER (YES)”.

Press “NEXT” until you reach the screen with “EXIT” option. Press “EXIT” then press “YES” to save settings.

II. BASIC SERVICE PROCEDURES & ADJUSTMENTS:

II. a–CHECK RECORD PRINTER MEDIA:
The record printer must be loaded with 2 ¼” thermal paper. The thermal side must be facing up.
Verify paper has thermal coating by running a blunt object across the thermal coating. The friction will create enough heat to leave markings on the thermal coated side.

II. b–CHECK LABEL PRINTER MEDIA:
The Label printer must be loaded with 2 ⅛” Traulsen label stock, part number 400-60004-00. Labels must be facing up.
Traulsen label stock can be identified by the ⅛” or by ¼” black place marker on the top right corner of each label.

II. c–LOADING THE PRINTER MEDIA:
- Place printer media on spindle (see figure 1; reference 7).
- Fold the end of the printer media to a centered point allows smoother transition when feeding (see figure 1; reference 4).
- Lift the cutting wheel cartridge (see figure 1; reference 3) and release the feed roller tension arm (see figure 1; reference 6).
- Feed the printer media over the feed roller (see figure 1; reference 5) and through the cutting wheel cartridge.

**NOTE:** Thermal coating side must face up.
- Engage feed roller tension arm and cutting wheel cartridge.

II. d–RUNNING A TEST PRINT:
- Start at the “MAIN MENU”
- Press “MORE”
- Press “SET UP”
- Change “PASSWORD (PIN)” to “75”
- Press the top left, top right and the bottom right buttons simultaneously and release to enter the “SERVICE MENU”
- Press “NEXT”
- Select “PRINTERS”
- Press “RECORD READY” or “LABEL READY” for a test print.

III. PRINTERS COMPONENT DIAGRAM

III. a–PRINTER COMPONENT DIAGRAM:
Reference 1=Printer Power Port-Red Harness
Reference 2=Printer Data Port-White Harness
Reference 3=Cutting Wheel Cartridge
Reference 4=Paper Folded To Point For Easy Feed
Reference 5=Feed Roller
Reference 6=Feed Roller Tension Arm
Reference 7=Thermal Paper Or Label Stock

Figure 1
IV. a–CUTTING WHEEL OPERATION:
The cutting wheel is located in the cutting wheel cartridge (see figure 1; reference 3; page 2). The cutting wheel moves right to left to cut paper/labels then resets back to the right.

The cutting wheel must reset all the way back to the right for the printer to initialize. If the cutting wheel jams the printer will not initialize and will not print.

If debris is blocking the cutting wheel remove debris and cycle power. The cutting wheel should reset on its own. If the cutting wheel does not reset, manually reset the cutting wheel by adjusting the plastic Phillips head adjustment screw located on the left hand side of the cutting wheel cartridge. If the wheel will not move or is very resistive in movement it is likely it will not reset properly and the printer must be replaced.

IV. b–CHECK PRINTER POWER–BASIC:
1) The quickest way to verify the printer is receiving power is to release then re-engage the feed roller tension arm (see figure 1; reference 6; page 2). Any time the feed roller tension arm is re-engaged the printer should index the printer media approximately 1/8". The printer media will also index on system power up.

2) If the printer media does index when the feed roller tension arm is engaged and printer still does not print then reference Section II. a, b, c, & d to check printer media or Section IV. d to check data cables and SmartChill® control.

3) If the printer media does not index when the feed roller tension arm is engaged reference Section IV. c to further check printer power.

NOTE: The printer media will not index if the cutting wheel is jammed.

IV. c–CHECK PRINTER POWER–ADVANCED (cont’d):
4) If 2 pin connector is secure and has proper voltage and still does not print, replace printer.

5) If 2 pin connector does not read 8.5VDC check DC power supply for proper voltage. (Voltages are labeled on relay board and DC power supply terminals). For more information on troubleshooting DC power supply contact Traulsen Service Department at 800-825-8220.

IV. d–CHECK PRINTER DATA HARNESS:
The white harness is the printer data harness. If the printer indexes when following instructions in Section IV. b but does not print, check the white data harness (see figure 1; reference 2; page 2) for damage or weak connection.

IV. e–INTERCHANGE INSTRUCTIONS:
Both printers, label and record, are exactly the same printer and interchangeable. When plugged into PTR 1 ports (see figure 2; reference 1; page 5) on the back of the SmartChill® board the printer will act as a record printer. When plugged into PTR 2 ports (see figure 2; reference 2; page 5) on the back of the SmartChill® board the printer will act as a label printer.

NOTE: Always inspect all boards and cables for signs of water damage or corrosion. Corrosion will impede printer and or control board operation.
V. FLOW CHART - SERVICE PROCEDURES & ADJUSTMENTS:
Reference 1 (No Print)=Is Printer Media Thermal Paper?
Reference 2 (No Print)=Is Cutting Wheel Stuck?
Reference 3 (No Print)=Does Printer Have Power?
Reference 4 (Replace Printer)=Are Power Cables Damaged or Loose?

```
No Print

Is Thermal Paper?  
\[\text{NO}\] Replace Printer Media

Is Cutting Wheel Stuck?  
\[\text{YES}\] Manually Reset or Replace Printer
\[\text{NO}\]

Does Printer Have Power?  
\[\text{YES}\] Re-feed Media/Re-Boot Check Data Cables
\[\text{NO}\]

Are Power Cables Damaged/Loose  
\[\text{NO}\] Replace Printer
\[\text{YES}\] Replace/Secure Damaged Power Cables
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VI. SMARTCHILL® BOARD:
Reference 1=PTR1 Ports - Record Printer
Reference 2=PTR2 Ports - Label Printer
Reference 3=2 Pin Connector - Printer Power
### VII. TROUBLESHOOTING

**WARNING** Certain procedures in this section may require electrical and refrigeration system test or measurements while power is applied to the cabinet. Exercise extreme caution at all times. If test points are not easily accessible, disconnect power, attach test equipment and reapply power to test.

| Not Printing | 1. Check printer media to insure it is the proper type and loaded properly see Sec. II. a, b.  
|              | 2. Check printer power see Sec. III. b, c, d.  
|              | 3. Check for water damage or corrosion see Section III. e. |
| Loading Media | 1. Always fold the tip of the media to a point Section III c. |
|            | 2. Generic error message indicating a printer has failed to print (printer not specified). |
| Corrosion | 1. Routinely inspect printer boards, cutting wheel cartridges, cables & board for signs of corrosion. |
| 2 Pin Connector | 1. Often after resent service the 2 pin connector (grey and black wires) on the back of the SmartChill® control can become loose or disconnected causing a printer failure. |
| Verify Printer Power | 1. The quickest way to verify a printer has power is to release then re-engage the tension arm. The printer should index the media about 1/8”. |
| Printer Fails To Initialize | 1. If a printer continues to feed paper with only a few random characters printed every so often, the printer has failed to initialize. If this happens simply power cycle the control. |
| Printer Replacement | 1. Both printers, record and label, have the same part number 950-60355-00 and are interchangeable with the exception of any RBC50 models manufactured prior to 2008, with 90 degree printer boards in which case the part number is 950-60408-00. |
HOURS OF OPERATION:
Monday thru Friday 7:30 am - 4:30 pm CST

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