

Little Buddy™ II Conveyor Dryer

18" wide by 5' long conveyor dryer Document # 16-437

Assembly and Operating Instructions

Please review all of these instructions prior to assembly.

**If you have ordered the optional heat control please see Fig 4.

The *Little Buddy* is packaged in 4-cartons for shipment. Optional heat controller and cap heater (if purchased) are shipped in their own cartons. Please make sure all pieces have been received before attempting assembly.

Tools Required: Two 1/2" wrenches & needle nose pliers

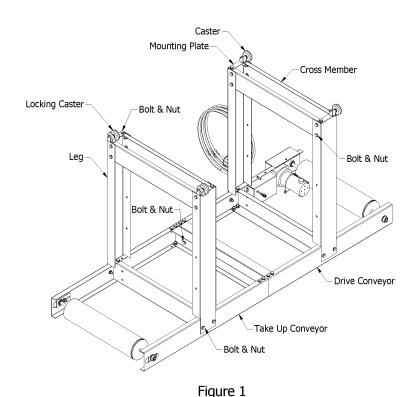
Label on Box	Qty	Contents
LB09-T	1	Take Up half of Conveyor Bed
	1	Chamber Floor
LB09-D-120, LB09-D-240 or LB09-D-CE	1	Drive half of Conveyor Bed, with motor
	1	Conveyor Belt, wrapped in brown paper
LB09-2000C or LB09-3000C	1	Assembly Instructions
	1	Heating Chamber
	1	6 inch Duct Collar
LB09-LK	4	Conveyor Leg
	2	Cross Member
	2	Caster, Locking 2 inch
	2	Caster, 2 inch
	36	Serrated 5/16 – 18 Nut
	32	Serrated 5/16 – 18 Bolt
	4	Caster Mounting Plate

Note: Portions of the assembly procedure require 2 people.

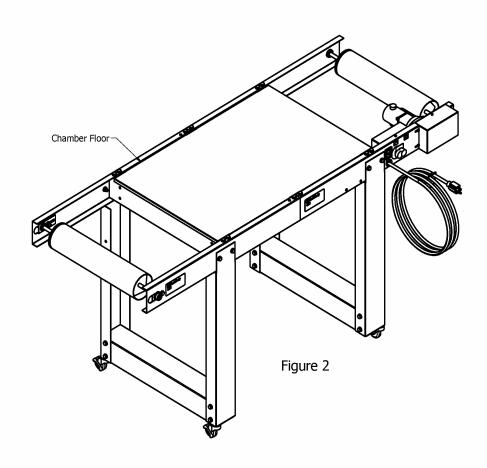
Unpack, identify, and inspect all parts. Report any missing or damaged items. Cover a 3' x 7' area on the floor with towels, cardboard, carpet, etc. to protect the painted parts from being scratched during assembly.

Conveyor Bed Assembly:

- 1. Place the Conveyor Drive Assembly on the covered floor with the motor breaker towards the ground (see Fig. 1)
- 2. Butt the Conveyor Take-Up Assembly to the Drive Assembly. Be sure that the groove on each roller drum is on the same side of the bed.
- 3. Bolt the bed assembly together using four 5/16-18 bolts & nuts.
- 4. Bolt one of the Cross Members between the bases of the Conveyor Leg and another Conveyor Leg using 5/16-18 bolts & nuts. Attach the Cross Member with the open channel facing toward the bottom of the conveyor leg (see Fig. 1).



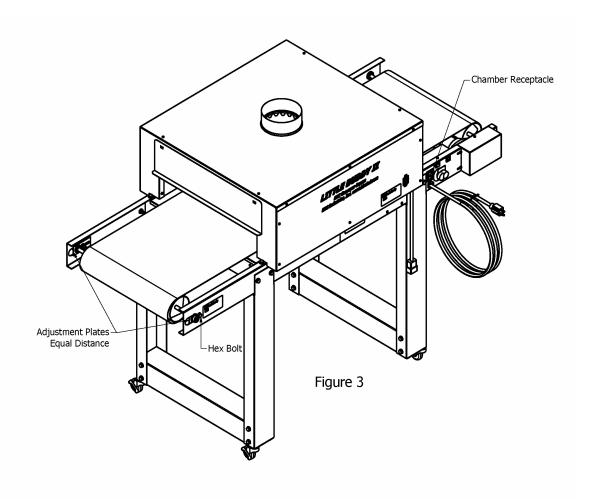
- 5. Bolt the remaining Cross Member to the two remaining Conveyor Legs in the same fashion.
- 6. Attach the Conveyor Leg Assemblies to the Conveyor Bed using the 5/16-18 Bolts.
- 7. Attach Mounting Plates & Casters with Bolts & Nuts.
- 8. Using two people turn conveyor bed over onto its casters.
- 9. Set Chamber Floor onto conveyor bed (see Fig. 2). The Chamber Floor is not fastened to the conveyor bed.



Conveyor Belt Installation:

- Determine the product side of the belt. A rubber guide is stitched onto one edge of the belt. This guide is designed to ride in the roller drum grooves to provide Hassle-Free-Tracking.
- Carefully remove the splice pin from the inside teeth of the splice connector by pulling gently with needle nose pliers. DO NOT BEND; this pin will be reinserted later.
- 3. Lay the belt on the conveyor bed aligning the edge guide with the roller drum grooves.
- 4. Pull the ends of the belt together meshing the teeth of the splice while a **second person** reinserts the splice pin (removed earlier) into the channel formed by the interlocked metal teeth. It may be easier to rotate the belt so that the splice is on top of the conveyor bed before inserting pin. Using needle nose pliers, fully insert the pin until it is centered.
- 5. **Adjust belt tension:** Loosen 2 hex bolts at Take up Roller (See Fig 3). Pull roller at groove end till you have sag of 1 1.5 inches below the cross-members as the belt travels under the conveyor bed. Tighten hex bolt.

6. Adjust opposite end of roller to same location and tighten hex bolt.



Attaching Heating Chamber:

- 1. **Using two people** set the chamber onto the conveyor bed (see Fig. 3). The Heating Chamber cord must be on the same side of the Conveyor Bed as the Conveyor cord.
- 2. The Heating Chamber has openings on the underside rails that fit over the hex-head bolts. The chamber should rest flatly on the conveyor bed.
- 3. Insert the Duct Start Collar into the hole in the top of the Heating Chamber. Once in position, bend the tabs at the base of the collar outward to secure it in place. .Note: The chamber will function properly with only the duct start collar installed. Installing a two to three foot section of 6" diameter ductwork on the start collar will improve the capture of heat and vapors created during the curing process. Optional exhaust kit (LB02-EX) available.
- 4. Plug the Heating Chamber cord into the receptacle on the Conveyor.

Recommended Initial Start-Up Procedure:

1. **DO NOT** plug the equipment in (or apply power) until instructed to do so.

Note: The Little Buddy LB09-2000 requires a 120 Volt, 20 Amp circuit. The Little Buddy LB09-3000 & LB09-3000-CE requires a 240 Volt, 20 Amp circuit. Any attempt to operate the Little Buddy without the cord/plug provided by the manufacturer will void the warranty.

- 2. Turn the speed control knob on the side of the conveyor bed fully counterclockwise. Plug the conveyor drive into a suitable power source.
- 3. Turn knob to the halfway point. Flip rocker switch on conveyor to ON position to start belt. Listen for any unusual noises. Check to see if the rubber edge guide is riding in the roller drum grooves.
- 4. Flip the rocker switch on the chamber UP to the ON position. The amber indicator light will illuminate.

Caution: DO NOT operate Heating Chamber unless belt is moving. Heat will damage an idle belt.

5. Verify that the heating element is functioning: after about a minute of operation, briefly feel just inside both the entrance and exit ends of the chamber. The area should be warm.

Caution: Heating element is exposed inside the chamber and is operating at very high temperatures. Keep your hand close to the moving belt (without touching it).

Note: Some smoke/vapor and odor may be noticed during initial start-up due to residual material from the manufacturing process burning off the elements.

6. Working temperature will be reached after a ten-minute warm-up.

Test articles may be run to determine the optimal speed of the conveyor for your environment and products.

Belt speed can be determined by placing a small item that will not melt, like a coin, on the conveyor belt and recording the time it takes to travel through the chamber.

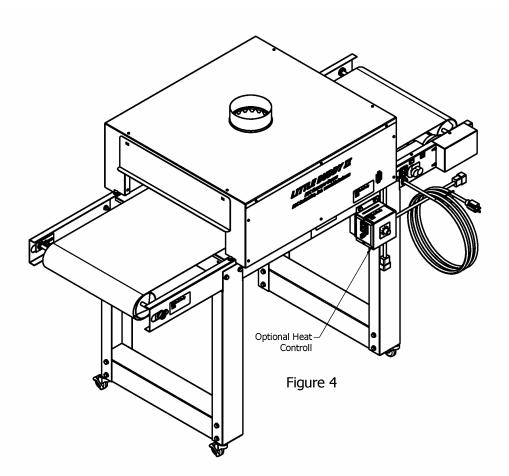
Note: The speed and temperature of the unit may vary slightly with fluctuations in power/voltage servicing the equipment.

Process an item through the dryer. Evaluate the completed article according to your quality standards. If the equipment is being used for curing of ink on garments, we recommend washing the processed garment as the definitive test.

The conveyor dryer is now ready for normal **Use and Operation**.

Routine Maintenance: Performed after first week and every 100 hours of operation.

- 1. The belt should be replaced if it has any tears, voids, separations, fraying, or no longer rides in the roller drum groove due to excessive wear.
- 2. Belt tension: the belt will relax over time and tension may have to be adjusted by the instructions above.



Optional Heat Control Installation:

- 1. Bolt Heat Control to Conveyor.
- 2. Plug Chamber cord into Controller.
- 3. Plug Controller cord into Conveyor.
- 4. Adjust Controller as needed for temperature.



WARRANTY

BBC Industries, Inc. warrants their products to be free from defects in workmanship at the time of shipment.

The obligation under the above warranty shall be limited to the repair or replacement of any part or parts manufactured by BBC Industries, Inc. without charge F.O.B. factory that may prove defective within 12 months from the date of shipment, which are returned to BBC Industries, Inc.

The above warranties are the only warranties made with respect to the equipment. There is no implied warranty of merchantability or of fitness.

EXCLUSIONS:

There is no warranty on parts not manufactured by BBC Industries, Inc., other than the respective manufacturer's warranty, if any.

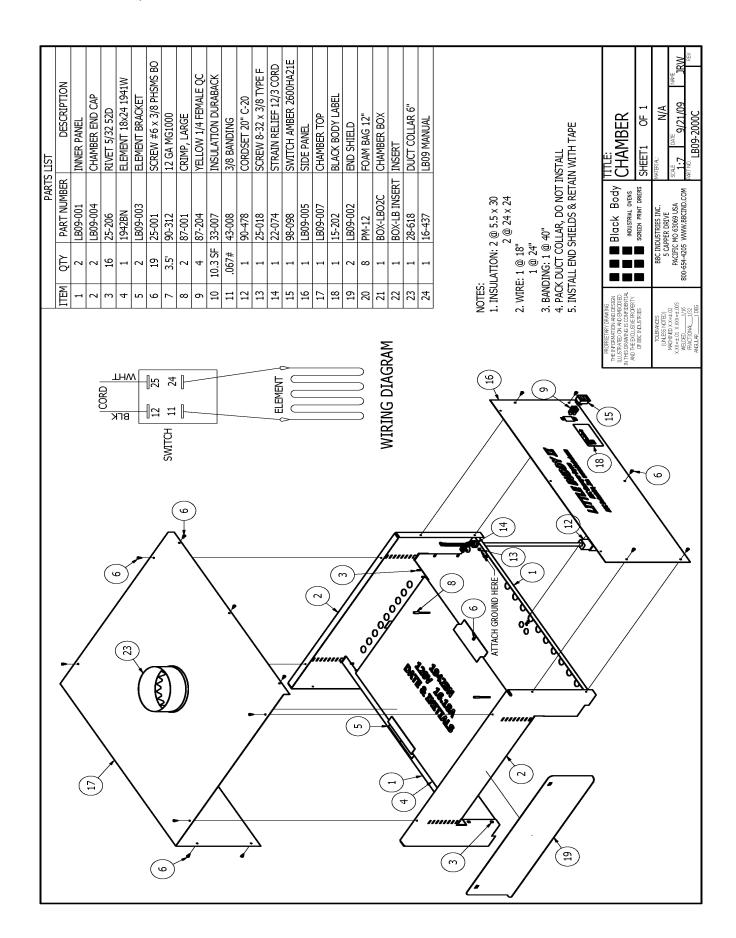
The warranty against defects shall not extend to damage caused from any of the following:

- Transport by carrier
- Corrosion
- Operation or use in a manner inconsistent with specifications and/or operating instructions
- Ordinary wear, accident, improper installation, or maintenance
- Alterations made to equipment in any way

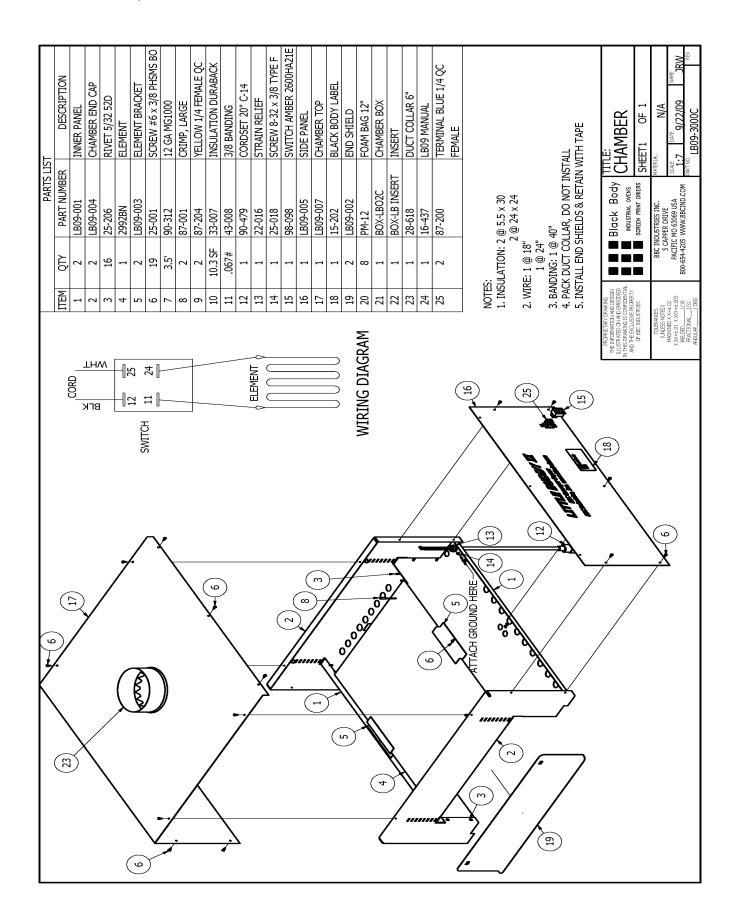
BBC Industries, Inc. shall not be liable for any losses or damages, including but not limited to incidental or consequential damages, suffered or incurred because the equipment proves to be defective either upon installation or during its operation or use.

Shipment of defective parts to BBC Industries, Inc. and the return shipment of any repaired or replacement parts from BBC Industries, Inc. shall be the purchaser's/user's expense.

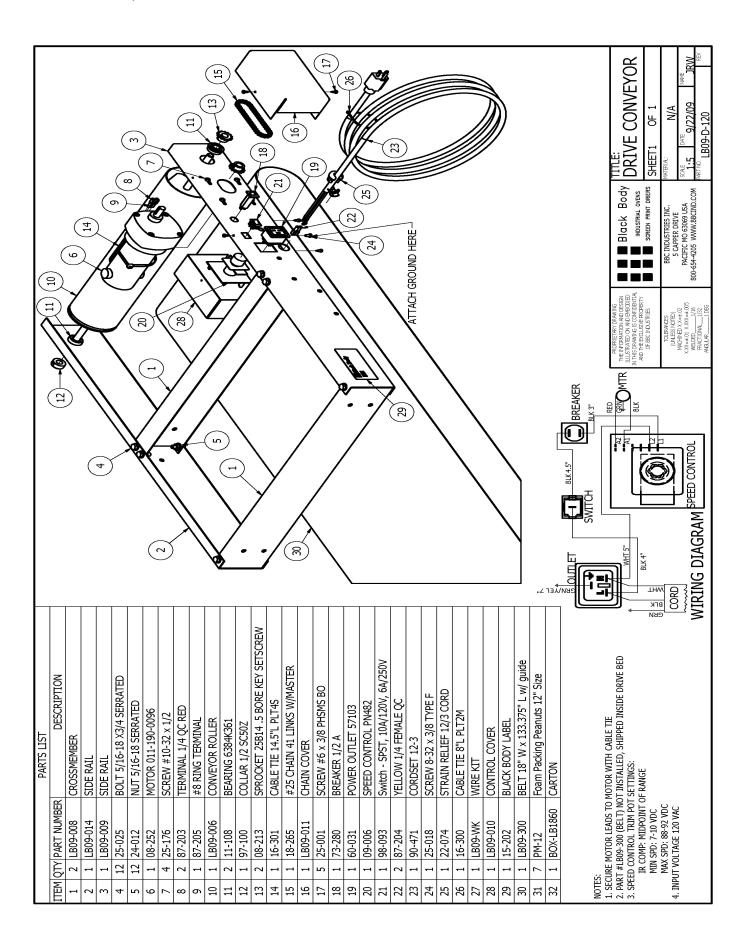
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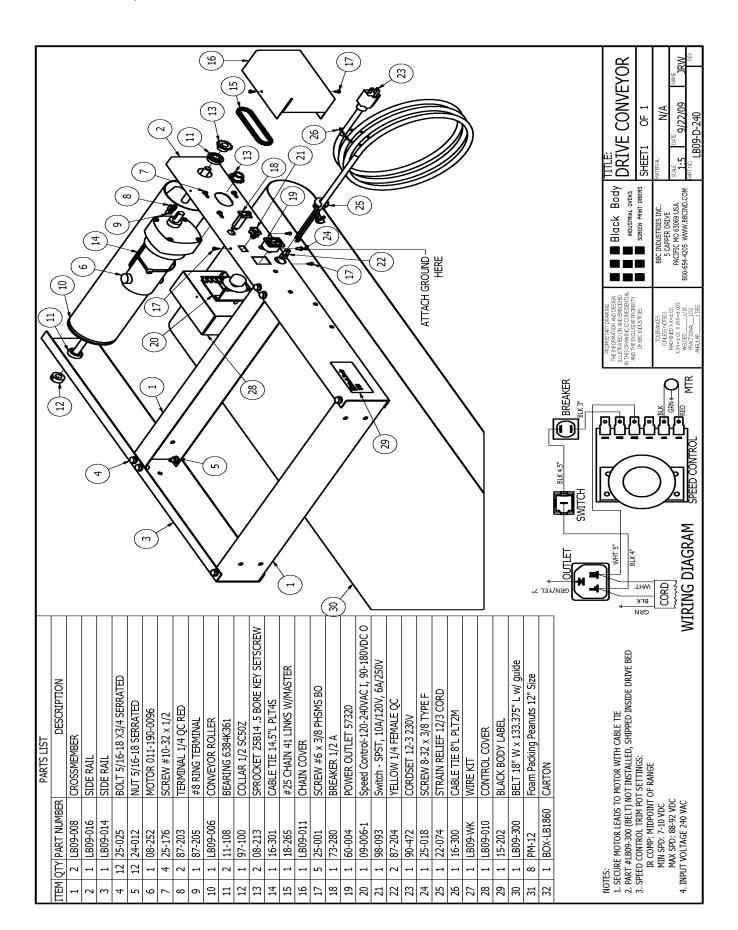
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