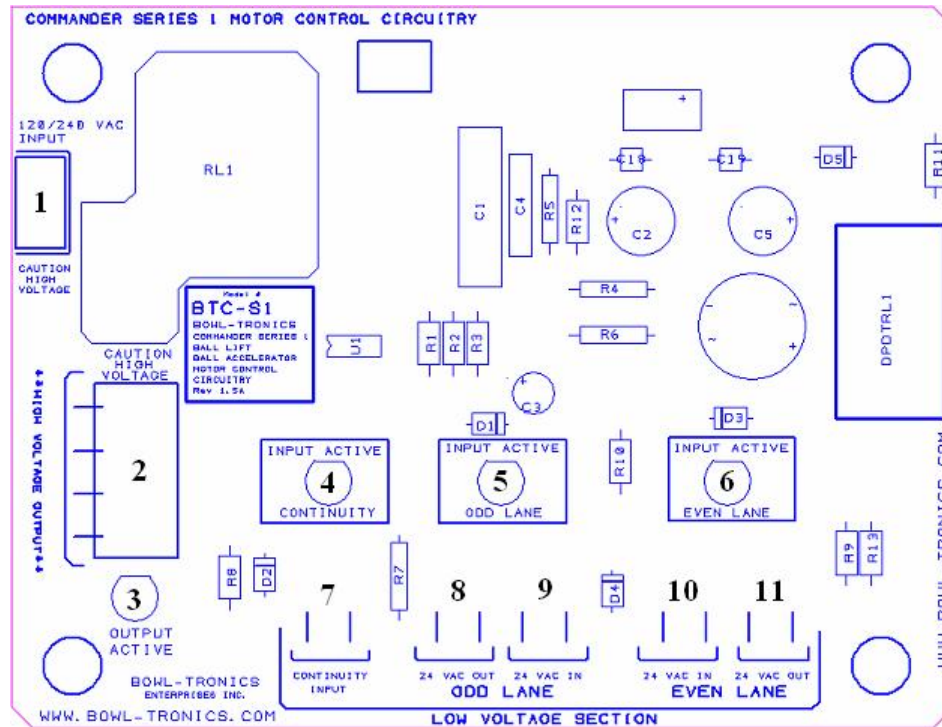


# Bowl-Tronics Enterprises Incorporated

Address: 1115 Sherwood Ave.  
Elgin IL. 60120  
Website: [www.bowl-tronics.com](http://www.bowl-tronics.com)  
E-mail: [rick@bowl-tronics.com](mailto:rick@bowl-tronics.com)

Phone: 847-741-4500  
Fax: 847-741-0914

## Commander Series 1Ball Lift Motor Control Kit (BTC-S1/KIT)



### PC Board Layout Description Table:

1. High Voltage Input
2. High Voltage Output (Motor's)
3. Output Active LED (When Motor is running LED will be lit)
4. Input Active LED (AMF 82-70 when motor is running LED will be lit)
5. Input Active LED (Brunswick odd lane when motor is running LED will be lit)
6. Input Active LED (Brunswick even lane when motor is running LED will be lit)
7. Continuity Input (AMF 82-70 M-2 relay hook up)
8. 24 VAC Output (Brunswick ball lift control voltage odd lane)
9. 24 VAC Input (From Brunswick accelerator chassis odd lane)
10. 24 VAC Input (From Brunswick accelerator chassis even lane)
11. 24 VAC Output (Brunswick ball lift control voltage even lane)

## Ball Lift Motor Control Kit Theory

---

This ball lift motor control kit is designed to replace the existing Brunswick ball lift relays or similar ball lift relays, while still using your existing ball lift box. Supplied with the (BTC-S1/KIT) there will be a schematic on how to wire the (BTC-S1/KIT) into your box. The schematic should be placed on the inside cover of your existing box for future reference. The schematic will also be in this manual. From the accelerator chassis 24 VAC supplies voltage to the solid-state control circuit, this closes the circuit to start your ball lift and hand dryer motor running.

## Installation Instructions

---

*Remember to remove power before performing any installation!!*

First, start by removing the old ball lift relays. Carefully remove the (BTC-S1/KIT) PC from the mounting plate. Take the mounting plate to the ball lift box and align the screws on the bottom of the plate with the holes in the box where the relays use to be. Adjust the screws as necessary and tighten down. Reinstall the (BTC-S1/KIT) PC back on the mounting plate. Next, you will utilize the ball lift motor cable, hand dryer cable and the two low voltage 24 VAC wires from the machine. Start by installing your ball lift motor cable to the (BTC-S1/KIT). The hand dryer output cable will splice into one side of the switch wire and the other to the output of the (BTC-S1/KIT). The input connection to the (BTC-S1/KIT) will come from other side of the switches high voltage. View the schematic to help wire up all the connections to the (BTC-S1/KIT). Finally, hook up the 24 VAC low voltage wires to the (BTC-S1/KIT) via the screw terminal connectors.

**For Repair Send Faulty Parts to:**

Address: BOWL-TRONICS  
1115 Sherwood Ave.  
Elgin IL. 60120

Phone: 847-741-4500  
Fax: 847-741-0914

Visit our web site at [www.bowl-tronics.com](http://www.bowl-tronics.com)

Notes:

---

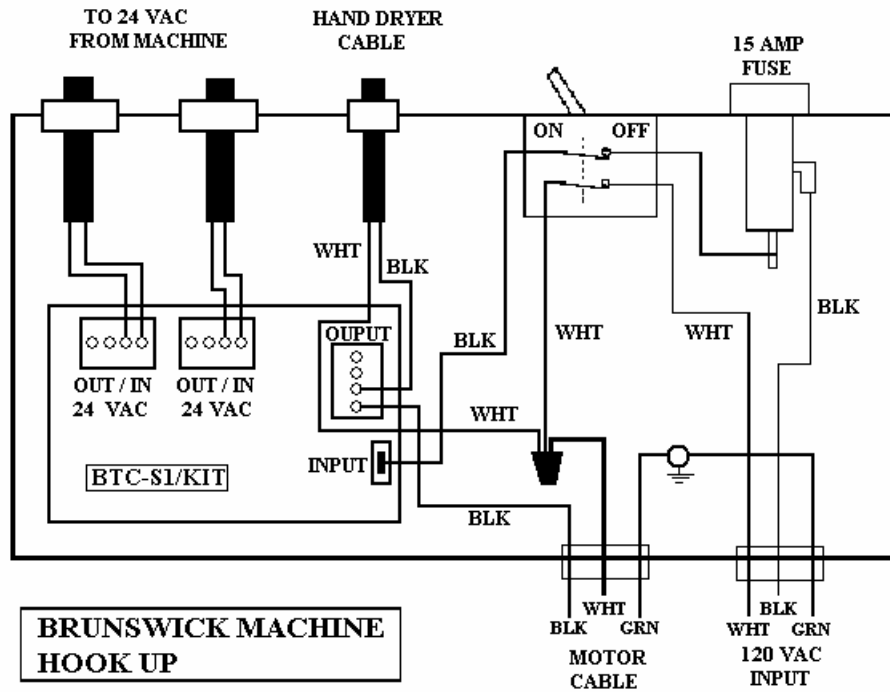
---

---

---

# Ball Lift Motor Control Kit (BTC-S1/KIT)

## BALL LIFT MOTOR CONTROL CHASSIS 120 VAC INPUT



## BALL LIFT MOTOR CONTROL CHASSIS 220 VAC INPUT

