



BBU250

Instruction Manual 94015-900 Battery Back-Up



DOR-O-MATIC®

7350 W. Wilson Ave.
Harwood Heights, IL 60706

Toll Free: 1-800-543-4635
In Illinois: 1-708-867-7400
Technical Support: 1-888-942-9945
Engineering FAX: 1-708-867-1177

www.doromatic.com

DA - 342

INDEX

BBU250

94015-900 Battery Back-Up

<u>TITLE</u>	<u>PAGE</u>
COVER PAGE	1
INDEX	2
GENERAL IMPORTANT INFORMATION	3
PART IDENTIFICATION INSTALLATION	4
WIRING SET-UP	5
WIRING DIAGRAMS	6-7
WALK-THROUGH TEST SERVICE	8

GENERAL

The BBU250 Battery Back-Up 94015-900 provides reliable and uninterrupted power to the 96K Sliding Door System in the event of main AC power loss. The included batteries recharge automatically when the unit is connected to the 96K Transformer Box 96005-900/-991. Audible and visual indicators report the status of the unit.

The BBU250 may be field-wired in one of three ways to achieve the following functionality:

1. Door and sensors continue to operate normally (dependent on battery charge and door usage). A fully charged BBU250 should operate a standard bi-parting package and all 24V accessories for approximately 250 cycles.
2. Door opens and remains in the open position.
3. Door closes **after all sensors** are clear and remains in the closed position.

IMPORTANT INFORMATION

- **CAUTION:** To reduce the risk of fire, connect only to a circuit provided with overcurrent protection in accordance with the National Electrical Code ANSI/NFPA. Equipment must be connected to ground.
- If the equipment has an internal energy source (the battery), the output may be energized when the unit is not connected to the 96K Transformer Box.
- To de-energize: place the remote switch in the "OFF" position and/or place the battery power lever in the "DOWN-OFF" position. Next, disconnect the unit from the 96K Transformer Box. Finally, disconnect the battery.
- Do not attempt to disassemble the unit. Other than the fuse (F2), the unit has no user serviceable parts.
- Used batteries must be recycled. Deliver used batteries to an appropriate recycling facility.

PART IDENTIFICATION

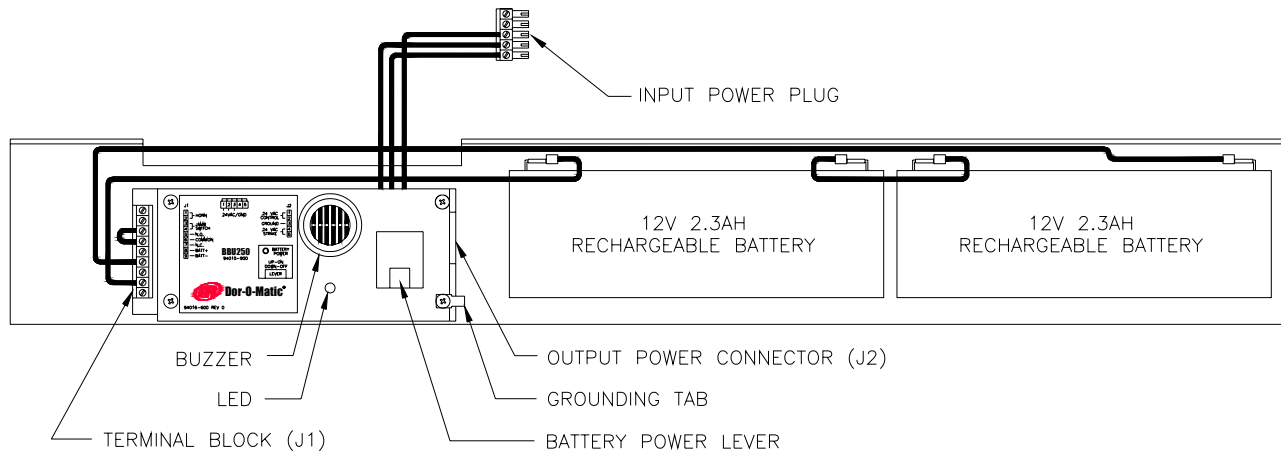


Figure 1: BBU250 Battery Back-Up

INSTALLATION

Important: Verify that main AC power to the 96K Sliding Door System is shut off to prevent unintended door movement.

1. Locate a convenient place in the header to mount the BBU250. It is recommended to locate the unit close to the 96K Transformer Box.
2. Using a drill or chisel, create an entry point in the header extrusion channel (Figure 2) for the attaching bolts.
3. Insert the M6 bolts (included) into the channel and slide to the desired location.
4. Attach the BBU250 to the header with the M6 nuts (included).
5. Locate a convenient place on the jamb to mount the OFF-ON Key Switch (84222-900). It is recommended to locate the key switch on the jamb closest to the BBU250.
6. Prepare the jamb using the template provided with the key switch, route the cable into the header, and mount the key switch to the jamb with the included hardware.

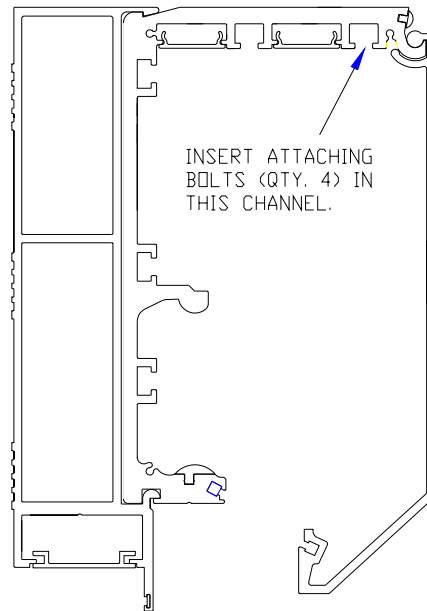


Figure 2: Header Extrusion Channel

WIRING SET-UP

CAUTION: Do NOT attach plug to output power connector J2 on BBU250 until after wiring set-up is complete.

Note: Refer to the appropriate wiring diagram (Figure 3 – without electric lock or Figure 4 – with electric lock) for complete wiring details. For ease of wiring, it is recommended to remove the 96K Transformer Box from the header.

1. Verify red (+) battery lead is connected to terminal J1-8 and black (-) battery lead is temporarily connected to terminal J1-6 on BBU250.
2. Remove jumper wire from J1-1 & J1-2 on BBU250 to temporarily disable audible (buzzer) alert.
3. Cut off connector plug from OFF-ON key switch cable, strip wire ends, and connect to J1-3 & J1-4 on BBU250. Verify key switch is in OFF position.
4. Disconnect 5-Pin output power plug & grounding plug on 96K Transformer Box and carefully route cable to BBU250. Do NOT connect to BBU250 at this time.
5. Connect input power plug of BBU250 to output power connector on 96K Transformer Box.
6. Determine which accessories are to be powered by the BBU250 and which accessories are to be powered by the 96K Transformer Box. Any accessory rated for 27VDC can be connected to the BBU250 at J2-4 & J2-5.
7. Connect 5-Pin output power plug to output power connector J2 and connect ground plug to grounding tab on BBU250.
8. Carefully remove black (-) battery lead from J1-6 and connect to J1-9 on the BBU250.
9. Re-install 96K Transformer Box if necessary.
10. Connect jumper wire to J1-1 & J1-2 if audible (buzzer) alert is required.
11. Dress all wires and cables to allow proper door movement.
12. Perform walk-through test.

WIRING DIAGRAMS

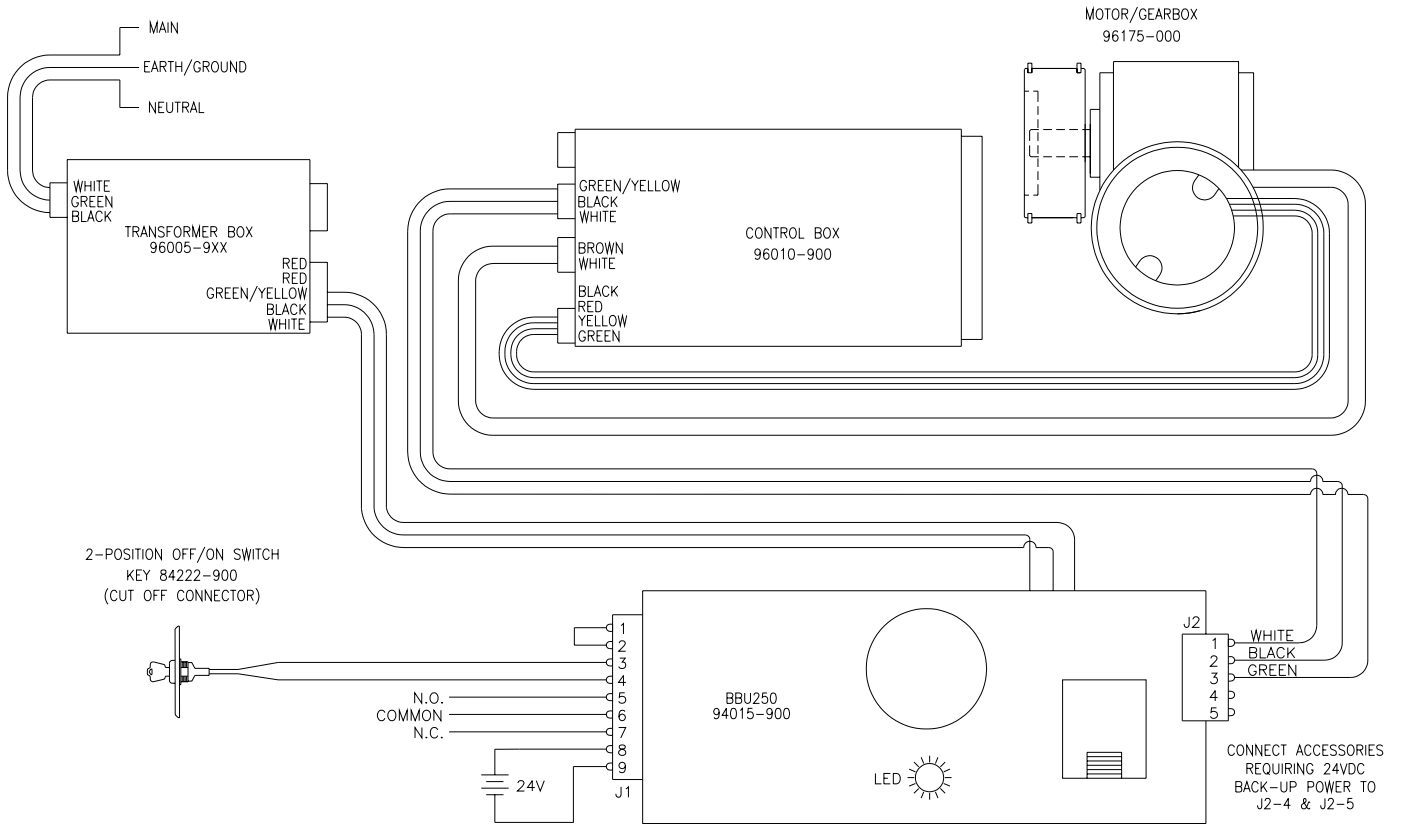


Figure 3: Wiring Diagram Without Electric Lock

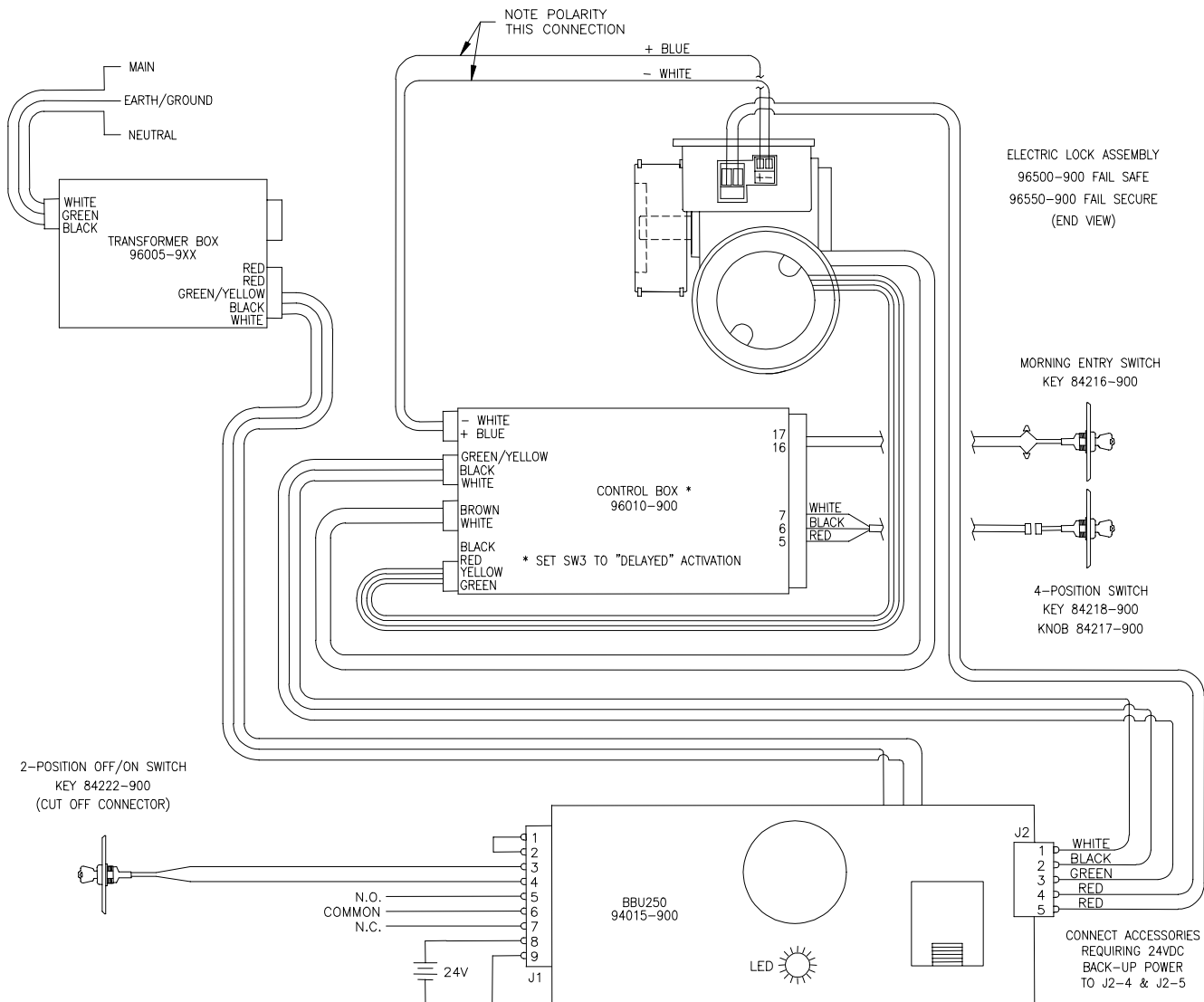


Figure 4: Wiring Diagram With Electric Lock

WALK-THROUGH TEST

1. Turn on main AC power to the 96K Sliding Door System.
2. Verify that the sliding door system is operating properly. Perform all necessary adjustments and tests. Refer to the 96K instruction manuals for more details.
3. Once the 96K Control Box is operating properly, place the OFF-ON key switch in the ON position. The BBU250 should now be ready for operation.
4. While sliding door is in normal operation, abruptly turn off main AC power to the sliding door system. All door operation should remain unaffected.
5. Verify that the audible (buzzer) alert and red LED indicator is functioning. Buzzer will sound continuously and LED indicator will illuminate continuously when AC power failure occurs. Check buzzer volume with header access cover completely closed. Note: If audible alert is not required, remove jumper wire from J1-1 & J1-2.
6. Continue to operate sliding door system and verify proper BBU250 operation. If door shows sluggish movement, halts, or loses control, battery may be undercharged.
7. Reapply main AC power to the sliding door system. Audible (buzzer) alert and red LED indicator should shut off.

SERVICE

- When servicing the 96K Sliding Door System, verify that main AC power is shut off and that the OFF-ON key switch for the BBU250 is in the OFF position. This will prevent any unintended door movement.
- The battery power lever may also be used to disable the BBU250. Pull lever down to disconnect battery power. **Lever should only be used when main AC power is shut off.**
- Battery level should be 22-27 VDC to operate door system during AC power failure. Allow 24 hours for charging when battery level reaches 21 VDC or lower.
- Do not attempt to disassemble the unit. Other than the fuse (F2), the unit has no user serviceable parts.

If, after troubleshooting a problem, a satisfactory solution cannot be achieved, please call Dor-O-Matic Technical Support at 1-888-942-9945 for further assistance.

DO NOT leave any problem unresolved. If you must wait for the following workday to call, leave the door inoperable until satisfactory repairs can be made. **NEVER** sacrifice the safe operation of the automatic door or gate for an incomplete solution.