

SB98.6

Machines/Models:SL20 - Toggle Controls

Serial Numbers: 8000-8192

THIS BULLETIN IS MANDATORY.

DATE: June 9, 1998

PURPOSE: Install Relay Kit (#030891-000) and Keyswitch Kit (#030891-002) to cut off

power to Valberg Controller while machine is not in operation.

OPERATION REQUIRED: Install Relay Kit (#030891-000) and Keyswitch Kit

(#030891-002) per instructions below.

PARTS REQUIRED: SL20 Relay Kit (# 030891-000)

SL20 Keyswitch Kit (# 030891-002)

REIMBURSEMENT: Installation of Relay Kit and Keyswitch Kit will take approximately 2 hours. UpRight will reimburse the owner of record for up to 2 hours of labor at \$30.00 per hour and for travel (up to 100 miles) at \$0.25 per mile. Reimbursement will be made upon receipt by UpRight of your completed warranty claim form. Please reference SB98.6 on your warranty claim form.

SL20 Relay Kit (# 030891-000)

- 1. 4 ea. 029615-002 Relay Connector
- 2. 3 ea. 029610-002 Fork Connector
- 3. 2 ea. 026920-003 Butt Connector
- 4. 1 ea. 029456-099 Wire, 16 AWG Yellow-7 inches
- 5. 4 ea. 029620-002 Butt Connector
- 6. 1 ea. 029477-099 Wire, 16 AWG Org/Blk 7 inches
- 7. 4 ea. 011240-001 Washer, #6 STD
- 8. 2 ea. 011248-047 Nut Hex Esna #6-32 x 3/4
- 9. 2 ea. 011715-006 Screw, RD HD MS #6-32 x 3/4
- 10. 1 ea. 063951-001 Relay DPST 12VDC
- 11. 1 ea. 029825-002 Diode, 3 Amp
- 12. 1 ea. 029479-099 Wire, 16 AWG Wht/Blk 7 inches
- 13. 1 ea. 029453-099 Wire, 16 AWG Orange 7 inches
- 14. 50 ea. 15 1/2" Black Tie Straps

PROCEDURE: Read all instructions thoroughly and refer to figures 1 through 5 before starting.

- 1. Remove the negative wire from the battery terminal.
- 2. Remove the four screws from the top cover of the upper controls, and remove cover.
- 3. Cut off the existing butt connection that connects the white wire from the footswitch and the white wire from the blue cable.
- 4. Splice together the orange wire of the blue cable and the white wire of the footswitch to the 3-amp diode (#029825-002) using butt connector (#026920-003). (The grey striped end of the diode should be facing the connection of the white and orange wires). Figure 2.
- 5. Connect the other end of the diode to the white wire from the blue cable using butt connector (#026920-003).

Continued on Page 2

If you have any questions regarding this Service Bulletin, please contact the UpRight Product Support Department by telephone at (800) 926-5438 from within the USA or at (200) 801-5200 from cutoide the USA or by EAV at (200) 802-0044



SB98.6

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PROCEDURE: (Continued) Read all instructions thoroughly and refer to figures 1 through 5 before starting.

- 6. Replace the top cover and fasten the four screws onto the control box.
- 7. Remove control module cover and open the swing door.
- 8. Fix the supplied relay (#063951-001) to the side of the tray using two 6-32 x 3/4" screws (#01175-006), two 6-32 x 3/4" hex nuts (#011248-047), and four washers (#011240-001). Drill one 9/64" diameter holes 5 1/2" from the side of the module and 1/2" down from the top of the module. Drill another 9/64" diameter hole 1 1/2" below the first hole. Figure 1.
- 9. Cut off the orange, wht/blk, and org/blk wires from the blue control cable connector attached to the lower control box. See figure 2. Leave approximately two inches from the end of the connector.
- 10. Connect the ends of the wht/blk and org/blk wires (lower control connector side) together using butt connector (#029620-002).
- 11. Attach the supplied org/blk wire (#029477-099) to the org/blk wire control cable end that was cut in step 9 using butt connector (#029620-002). Figure 2.
- 12. Attach the supplied wht/blk wire (#029479-099) to the wht/blk wire control cable end that was cut in step 9 using butt connector (#029620-002). Figure 2.
- 13. Attach the supplied orange wire (#029453-099) to the orange wire control cable end that was cut in step 9 using butt connector (#029620-002). Figure 2.
- 14. Attach the orange wire of the blue cable from platform controls to terminal B on the relay using relay connector (#029615-002). Figure 4.
- 15. Remove the red wire from the E-stop, which runs from the E-stop to the keyswitch.
- 16. Attach the wht/blk wire from the blue cable from platform controls to the open slot of the E-stop using fork connector (#029610-002).
- 17. With the red wire that was removed from the E-stop in Step 15, connect it to terminal A on the relay using relay connector (#029615-002).
- 18. Attach the org/blk wire from the blue cable from platform controls to the red wire connection on the keyswitch using fork connector (#029610-002).
- 19. Remove the wht/red wire on the keyswitch and attach it to terminal 5 on the relay using relay connector (#029615-002).
- 20. Attach one end of the supplied yellow wire (#029456-099) to the open slot on the keyswitch using fork connector (#029610-002) and fix the other end to terminal 3 on the relay using relay connector (#029615-002).
- 21. Fasten the lower control box wires with tie straps. Allow a bit of slack in the pigtail harness.
- 24. Replace the negative wire to the battery terminal.
- 25. Perform function test by turning keyswitch to platform position. The red light on the Valberg control box should not be illuminated.
- 26. Depress footswitch light should illuminate and all operations should function.

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SB98.6

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Installation Instructions for Keyswitch

Parts Required: Keyswitch Kit (#030891-002)

- 1. 2 ea. 029610-002 Fork Connector
- 2. 2 ea. 029620-003 Butt Connector
- 3. 1 ea. 029452-099 16 AWG wire black x 4 inch
- 4. 1 ea. 029454-099 16 AWG wire red x 4 inch
- 5. 2 ea. 066805-010 N/O Contact Block, GE
- 6. 1 ea. 101221-000 Keyswitch

Procedure: Read all instructions thoroughly and refer to figures 1 through 5 before starting.

- 1. Remove all four wires that are connected to the existing keyswitch. (yellow, red, black, blk/red).
- 2. Unscrew the nut which fastens the body of the switch to the side flange. Remove switch.
- 3. Remove the new switch (# 101221-000) from package. Fasten the two contact blocks (# 066805-010) to port 1 and port 2 of the switch contact block.
- 4. Cut off the blue cable org/blk wire 4 inches from the end of the terminal. Figure 5.
- 5. Prepare the ends of the included black wire (#029452-099). Using the large butt connector (#029620-003), connect this wire and the 4 inch cut off wire to the end of blue cable org/blk wire. Figure 5.
- 6. Fix the org/blk wire to terminal 4 on left contact block and fasten the black wire to terminal 4 of the right contact block. Figure 5.
- 7. Take the red wire that was removed from the previous keyswitch and cut it 4 inches from the end of the fork terminal.
- 8. Prepare the ends of the included red wire (#029454-099). Butt connect one end of this wire and the 4 inch cut off wire to the end of the red wire that connects to terminal 4 on the relay using large butt connector (#029620-003). Figure 5.
- 9. Fix one end of the red wire to terminal 4 on left contact block and fasten the other red wire to terminal 4 of the right contact block.
 - There should now be a red wire connected to terminal 4 on both contact blocks and an org/blk wire connected to the left terminal 4 and a black wire to right terminal 4.
- 10. Fasten the end of the yellow wire that was removed from the previous keyswitch to terminal 3 on the left contact block. This contact block supplies power to the platform.
- 11. Fasten the blk/red wire to terminal 3 on the right contact block. This supplies power to the Chassis functions.
- 12. Insert the keyswitch body from outside the control tray. Thread the fastening screw hand tight plus 1/2 turn. Align the switch so the key is in the 6 o'clock position, which is the OFF position.

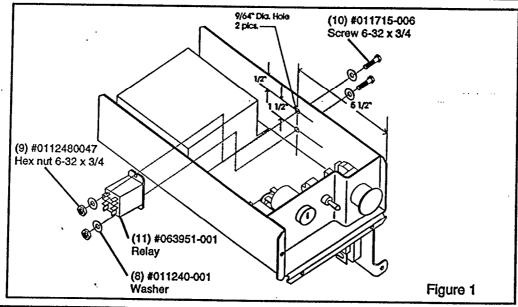


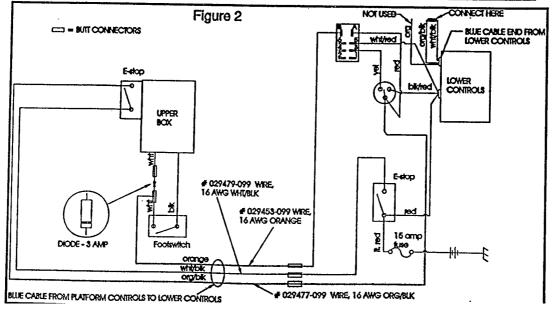
SB98.6

Machines/Models:SL20 - Toggle Controls

Serial Numbers: 8000-8192

- 13. Snap on the switch contact block to the end of the keyswitch.
- 14. Replace negative battery terminal.
- 15. Turn switch to the 8 o'clock position. Test the machine function from the chassis controls. The switch must be actuated while lifting and spring back to the off position when disengaged.
- 16. Switch the key to the 4 o'clock position. It will lock into place and platform functions are now available. The footswitch/joystick trigger will actuate the platform function.
- 17. If no functions are occurring, swap the contact block from port 1 to port 2 and vice versa. Retest for platform and chassis function.
- 18. If machine does not perform as described, please contact the UpRight Product Support Department by telephone at (800) 926-5438.







SB98.6

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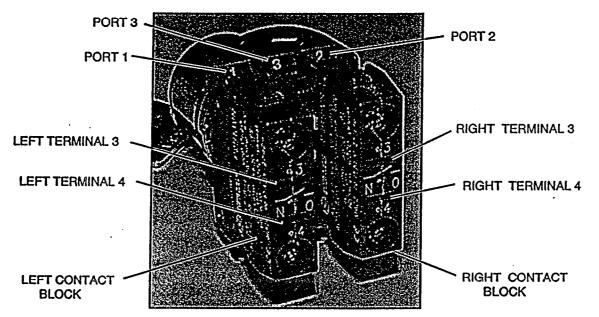
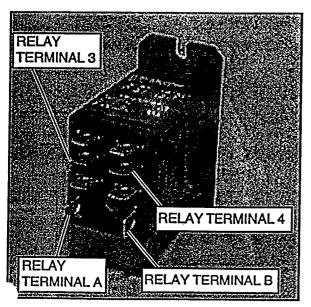


Figure 3 - Contact Block



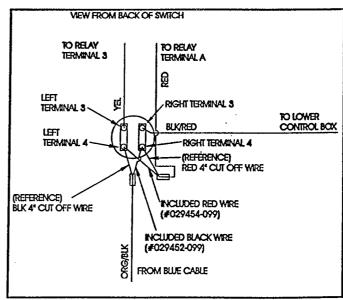


Figure 4 - Relay

Figure 5

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