

# SERVICE BULLETIN SB99.10E

**Machines/Models: SL20****Serial Numbers:****12 Volt Toggle**

8000-8192

THIS BULLETIN IS A SERVICE ADVISORY TO BE CARRIED OUT AT THE NEXT SERVICE INTERVAL.

**DATE:** June 15, 1999**PURPOSE:** To enhance the performance of the electrical circuitry.

**OPERATION REQUIRED:** Service Bulletin 98.7 must be installed before proceeding. Replace existing Controller (#101129-011) and add one .33 OHM Resistor Pack (Black, #101129-021), and one 1 OHM Resistor Pack (Yellow, #101129-020) and install Wiring Harness (#101228-000).

**PARTS REQUIRED:** 12 Volt Toggle Controlled Controller Kit includes the following:

1. 1 ea. #101129-011 12 Volt Toggle Controller
2. 1 ea. #101129-021 .33 OHM Resistor Pack (Black)
3. 1 ea. #101129-020 1 OHM Resistor Pack (Yellow)
4. 2 ea. #013283-002 Cable Mount
5. 2 ea. 6" Tie Strap
6. 1 ea. #101228-000 Harness
7. 3 ea. #068762-000 Contact Pin
8. 3 ea. #029620-002 Butt Connector
9. 1 ea. #030944-000 Wiring Diagram
10. 1 ea. #101181-000 **SL20 Electrical Schematic - DOMESTIC**
11. 1 ea. #101181-001 **SL20 Electrical Schematic - EUROPEAN**

**REIMBURSEMENT:** UpRight will reimburse the owner of record for 2 hours of labor at \$35.00 per hour and for travel (up to 100 miles). Reimbursement will be made upon receipt by UpRight of your completed warranty claim form. Please reference SB99.10E on your warranty claim form.

**PROCEDURES:** Read all instructions thoroughly and refer to Figures 1- 4 and schematics before starting.

1. Disconnect the battery pack by removing the battery cable from the negative (-) side of battery pack.
2. Remove the three Deutsch plugs from existing controller box.
3. Remove the two 10-24 screws and nuts securing the existing controller box, disconnect the wires and remove existing controller box.
4. Remove black and white wires from the upper controller.
5. Attach orange/black and white/black wires, from 12 conductor cable, to the upper E-Stop.

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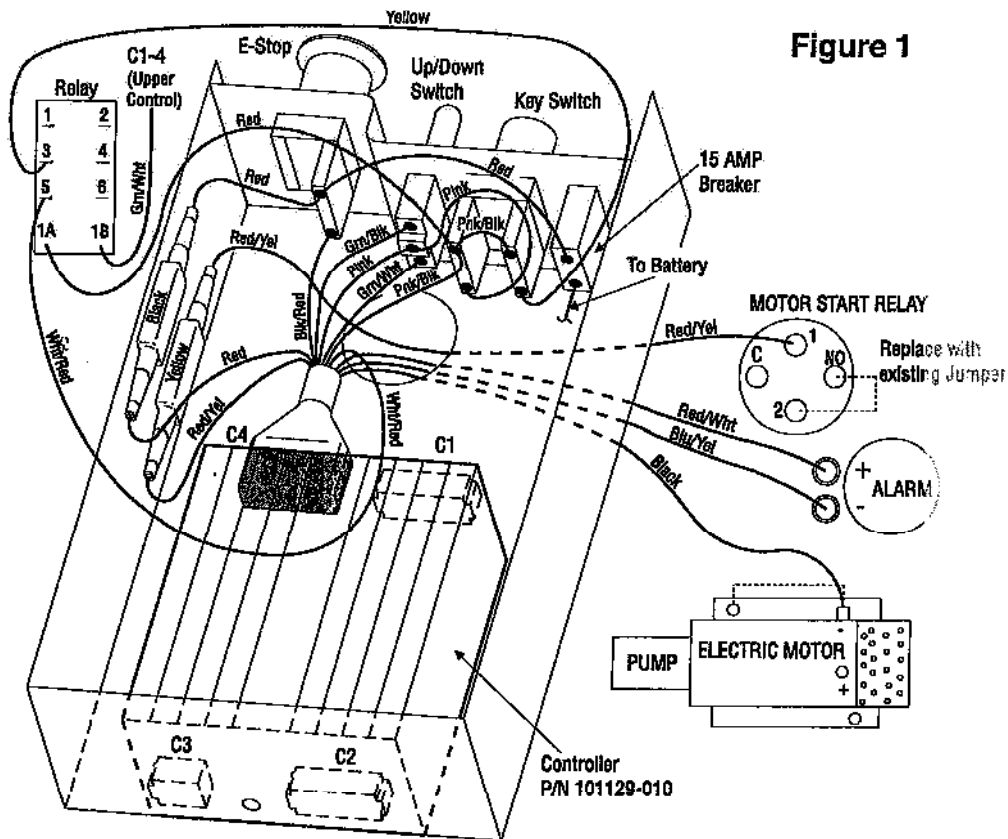
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**PROCEDURES:**

6. Verify that the orange/black wire is in pin C1-6, and the white/black wire is attached to pin C1-5.
7. Remove the black and white wire connections from the lower control tray assembly. All that should be remaining is the white wire attached to spade B of the external relay.
8. Install Wiring Harness (#101228-000) as illustrated in Figure 3 according to the drawing in Figure 1.
9. Install the 1 OHM Resistor Pack (Yellow, #101129-020) and the .33 OHM Resistor Pack (Black, #101129-021) using the Cable Mounts (#013283-002) and 6" Tie wraps as shown in Figure 4.
10. If options are installed on the machine, wire them as shown in Figure 2.
11. Install the new 12 Volt Joystick Controller (#101129-010) securing it with the two remaining 10-24 screws and nuts.
12. Reinstall the four control Deutsch plugs to their original location.
13. Perform a full function safety check as called out in the Service and Parts Manual.



**Figure 1**

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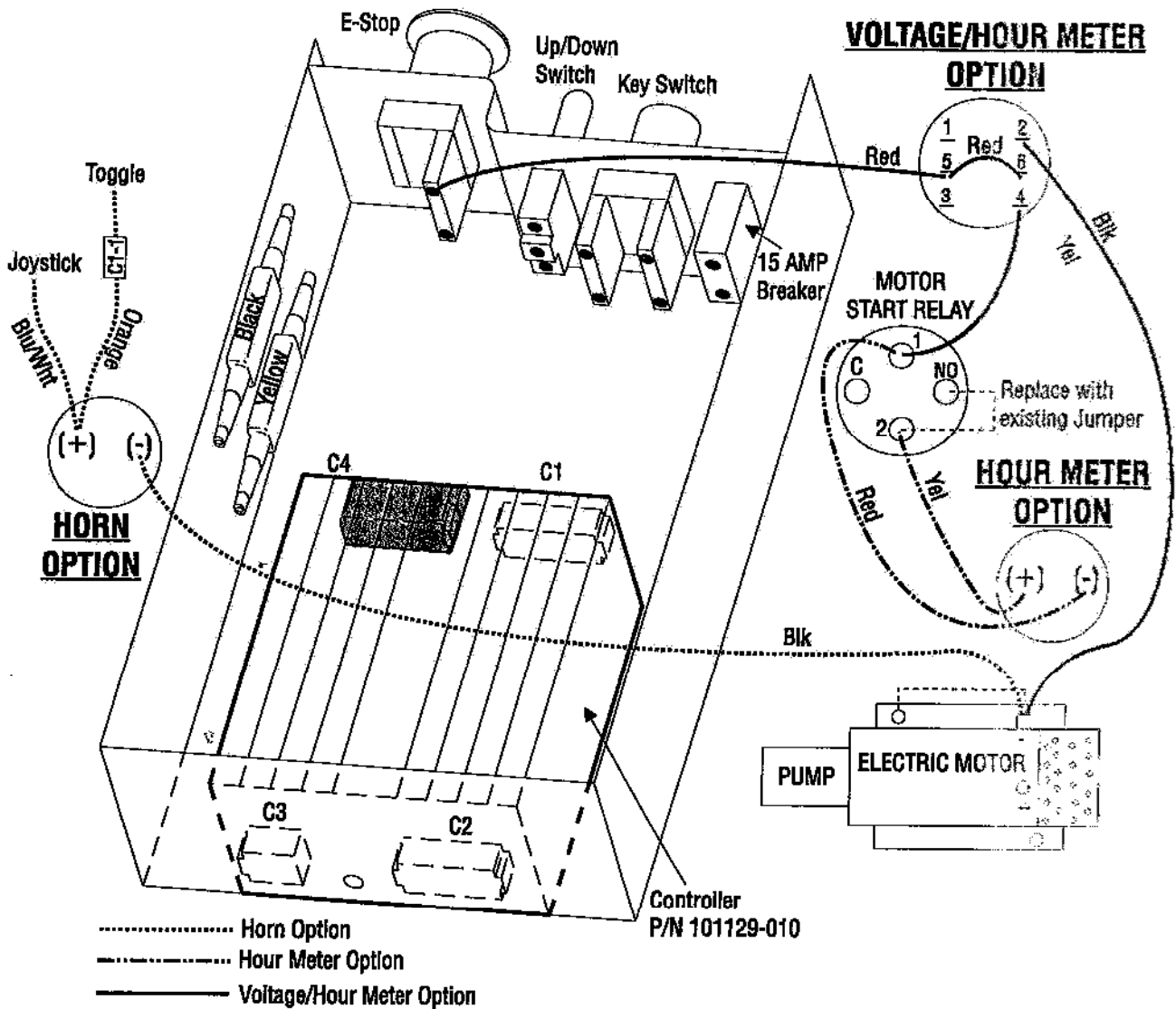


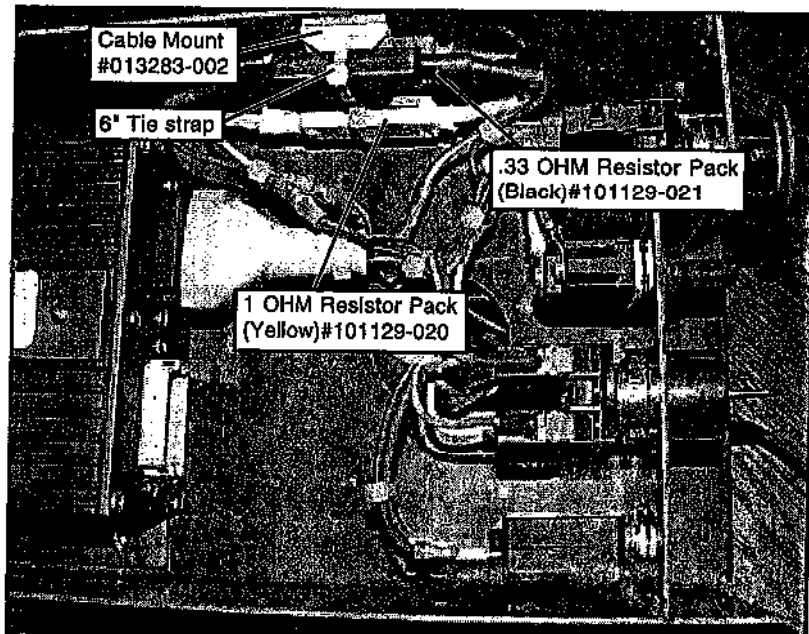
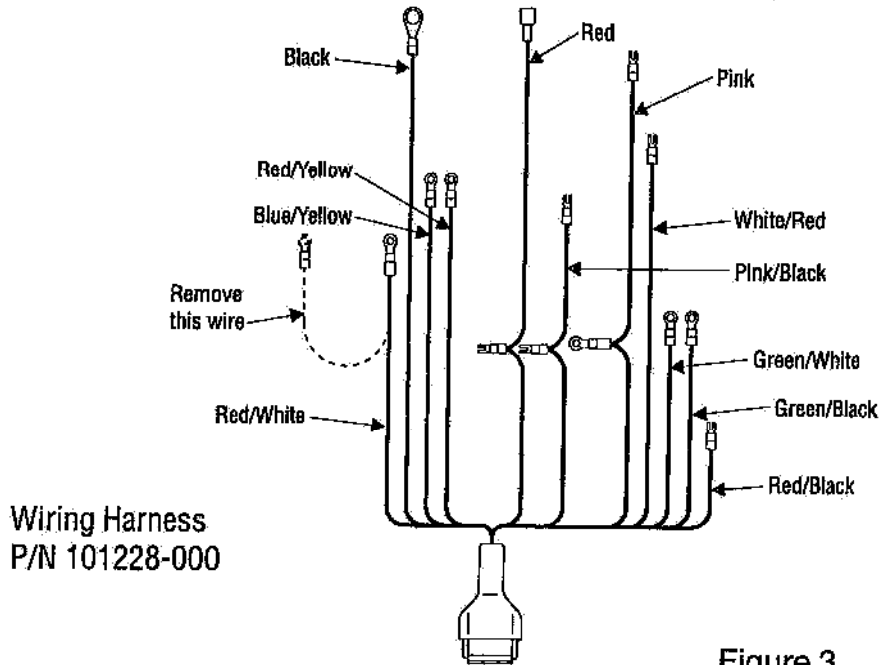
Figure 2

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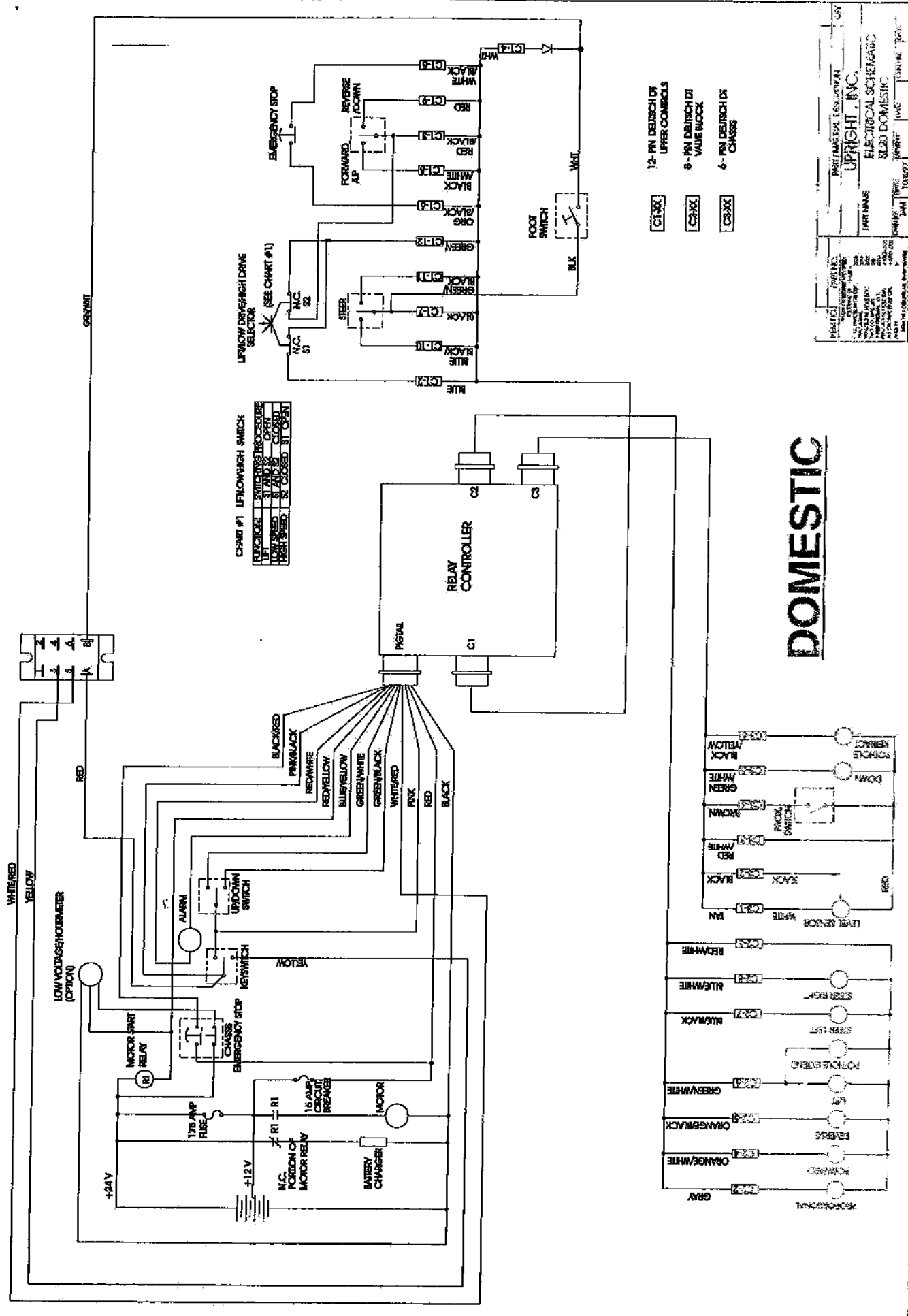
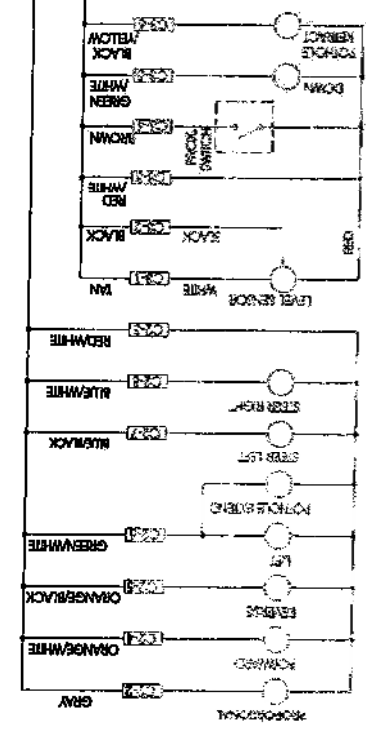


CHART #1: UP/DOWN SWITCH

FUNCTIONAL SWITCHING PROCEDURE	UP	DOWN
LOW SPEED	1 AND 2 CLOSED	3 AND 4 CLOSED
HIGH SPEED	2 CLOSED 3 OPEN	3 CLOSED 4 OPEN

- 12-PIN DEUTSCH DT UPPER CONTROLS
- 6-PIN DEUTSCH DT CHASSIS

# DOMESTIC



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DATE: 10/18/00  
 DRAWING NO: 101181-000  
 SHEET: 02

