



Product Support Bulletin 2004-007

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Maintenance of Way ~ Work Equipment Bulletin

DATE: September 17, 2004

SUBJECT: Rewiring of Hand Controllers

RATING: **DIRECTIVE**
(Action is required)

ALERT
(Potential Problem)

INFORMATION
(Action is optional)

PRODUCT IMPROVEMENT
(Enhance Product)

MACHINE MODEL(S): Grabber LS-2

SERIAL NUMBER(S): 330601-330666

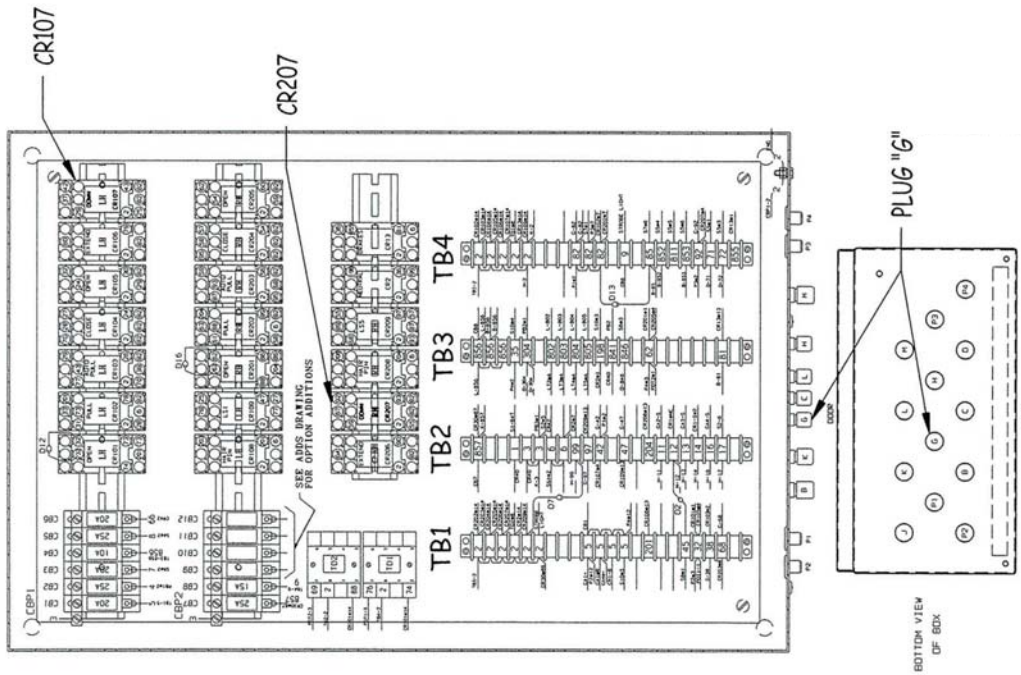
SUMMARY: This bulletin covers rewiring the **Pulling Head Down Limit Switch (LS2)** to prevent damaging the hand controllers in the event of a short circuit in the limit switch cables.

OPERATIONAL IMPACT: If the limit switch cable is damaged and shorts out to ground, the current surge will destroy the S14 contacts in the Hand Controller. This will occur before the circuit breaker can open the circuit. The controller or the switch S14 must then be replaced

ACTION: See Figure 1 for instructions. This modification can be made in about an hour. LS2 is rewired to be in series with the Down Solenoid (SOL11) and Relay CR103 instead of Relay CR103 and CR107. See the schematic in Figure 2 & 3.

WARRANTY: None





Left Hand Workhead

1. Move both #37 wires (one black and one orange/black) from CR107@5 to a new terminal at TB3-37.
2. On TB1-38 there are two black wires. Remove the black #38 wire that comes from plug "G" at bottom of logic box. Re-label the wire to #37 and move it to TB3-37.
3. At CR107 move wire #42 from pin 4 to pin 5.
4. Make a new wire approximately 37" long and label both ends #38. Install this wire from CR107 @4 to TB1-38.
5. On TB2-42 there are two black and one white wires. Remove the black wire #42 that goes to plug "P1" on the bottom of the logic box. Re-label it #38 and move it to TB1-38. Leave the other black and the white wire on TB2-42.

Right Hand Workhead

1. Move both #67 wires (one black and one orange/black) from CR207@5 to a new terminal at TB3-67.
2. On TB1-68 there are two black wires. Remove the black #68 wire that comes from plug "G" at the bottom of the logic box. Re-label the wire to #67 and move it to TB3-67.
3. At CR207 move wire #92 from pin 4 and pin 5.
4. Make a new wire approximately 19" long and label both ends #68. Install this wire from CR207@4 to TB1-68.
5. On TB4-92 there are two black and one white wires. Remove the black wire #92 that goes to plug "P3" on the bottom of the logic box. Re-label it #68 and move it to TB1-68. You may have to lengthen this wire. Leave the other black and the white wire on TB4-92.

Figure 1

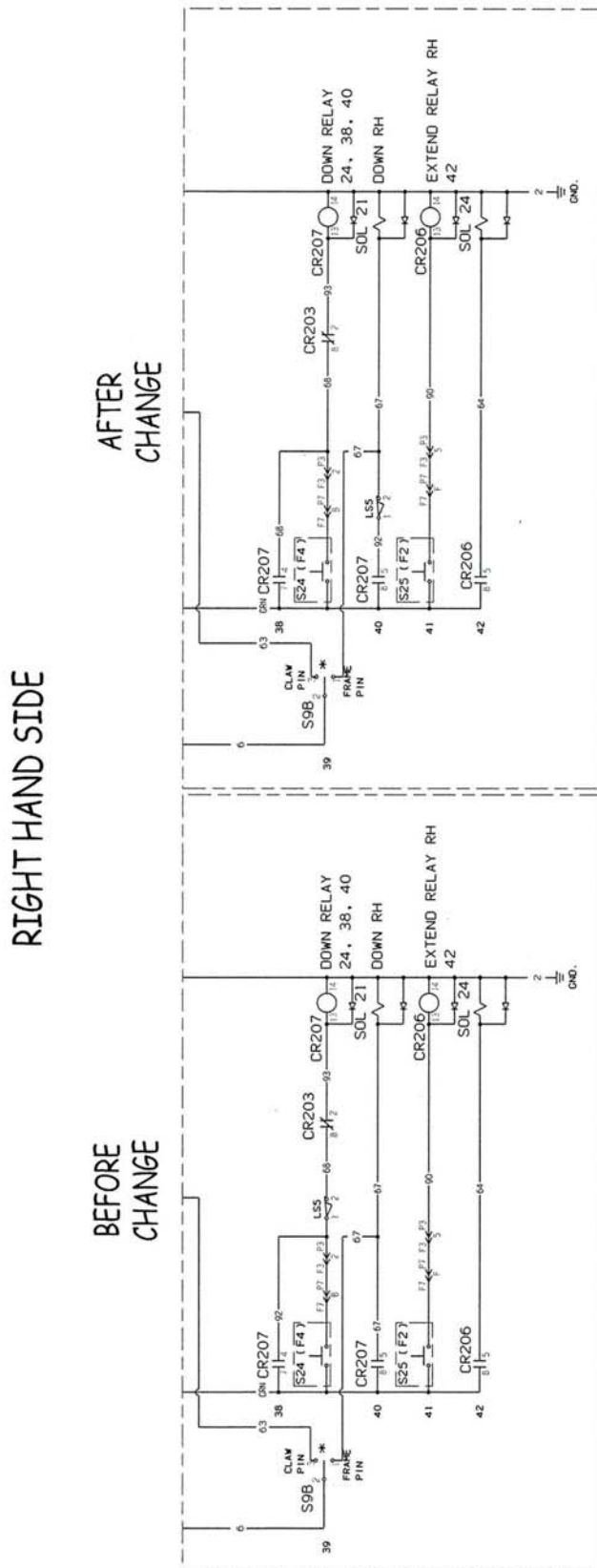


Figure 3