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
1. Move both #37 wires (one black and one orange/black) from CR07/5 to a new terminal on TB3-37.
2. On TB3-38, there are two black wires. Remove the block wire #38 that comes from Plug #17.
3. Cut CR07 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 CR07/64 to TB3-38.
5. On TB2-64, there are two black and one white wire. Remove the block wire #38 that comes from TB3-38. Leave the other black and white wire on TB2-64.

Left-Hand Workhead

1. Move both #67 wires (one black and one orange) from CR07/5 to a new terminal on TB3-67.
2. On TB3-68, there are two black wires. Remove the #68 wire that comes from TB3-68.
3. Cut CR07 wire #92 from pin 4 to pin 5.
4. Make a new wire approximately 18" long and label both ends #68. Install this wire from CR07/64 to TB3-68.
5. On TB4-92, there are two black and one white wire. Remove the black wire #92. Leave the other black and white wire on TB4-92.

Right-Hand Workhead