Ball Switch Removal From Strapper

Condition: In some instances the ball switches that sense bundle presence in the strapper may operate erratically and cause inaccurate strapping of the bundles. This erratic operation has been eliminated by removal of the ball switches and additional wiring and software changes to the control system within the Quipp Packman.
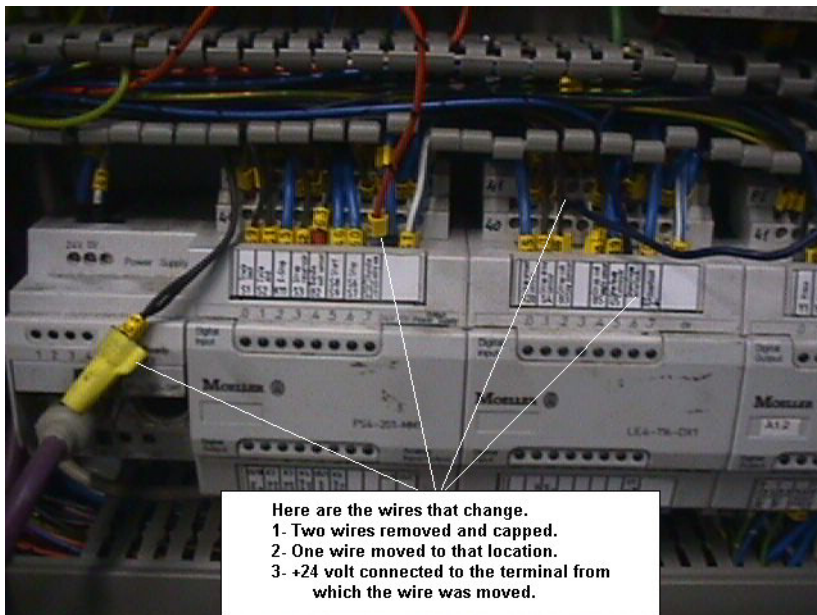
Assure improved operation of your
Quipp Packman

The Quipp Packman includes a strapper with ball switches for sensing the presence of bundles within the strapper. In order to eliminate any possible erratic operation caused by these switches, they are to be disconnected by the following procedure. All new Quipp Packman are manufactured without the ball switches and include these changes.

Refer to the illustrations and observe the following procedure:

1. TURN THE "QUIPP PACKMAN" STACKER OFF.
2. DISCONNECT THE INPUT POWER TO INSURE SAFETY.

This section describes the necessary wiring
## changes to the strapper portion of the Quipp Packman

Here are the wires that change.
1- Two wires removed and capped.
2- One wire moved to that location.
3- +24 volt connected to the terminal from which the wire was moved.

3. Open the strapper control cabinet with the special key.

Use a speical key to open

4. Refer to Quipp schematic 1929-S-39518 that shows the wiring changes itemized in steps 5 through 10.
5. Locate the two control units as shown and flip open the terminal access doors.

6. Disconnect the ball switches S20 and S21 - two wires from input I0.0.7.

Remove these two wires and wire cap them.
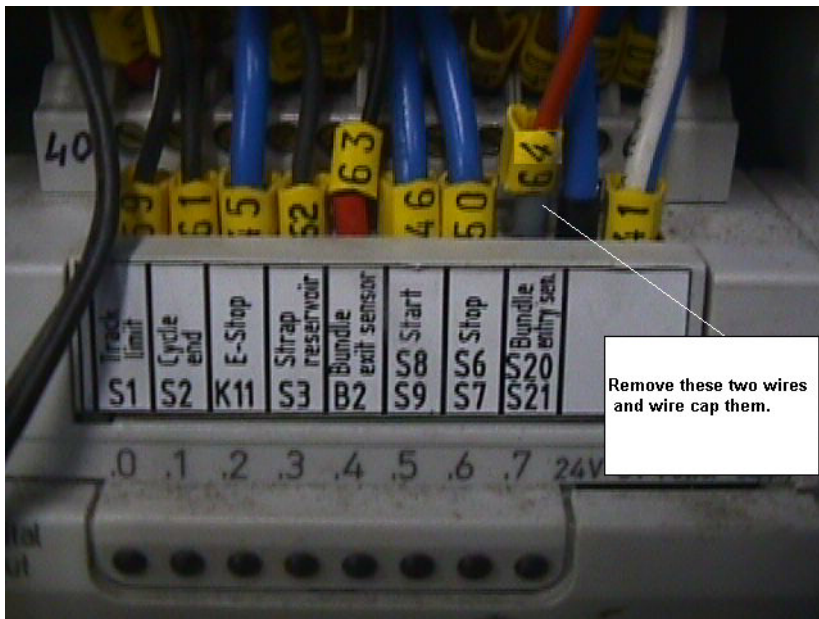
7. The two wires from the ball switches are shown capped off.

8. Disconnect the Quipp Packman "Downstream interlock" signal wire X1/16 from input I1.0.6.

Move this wire to the other location
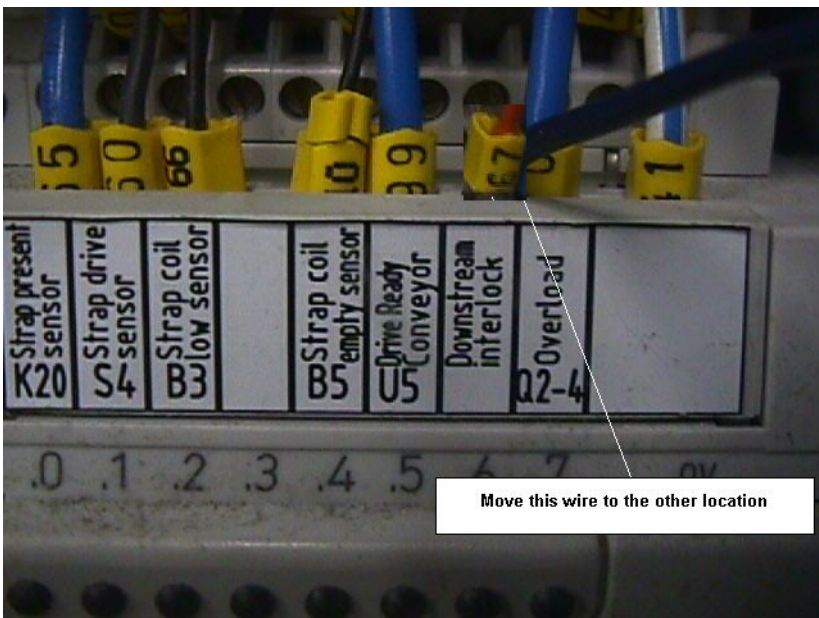
9. Connect Quipp Packman "Downstream interlock" signal wire X1/16 to input I0.0.7, where the ball switch signals had previously been connected.
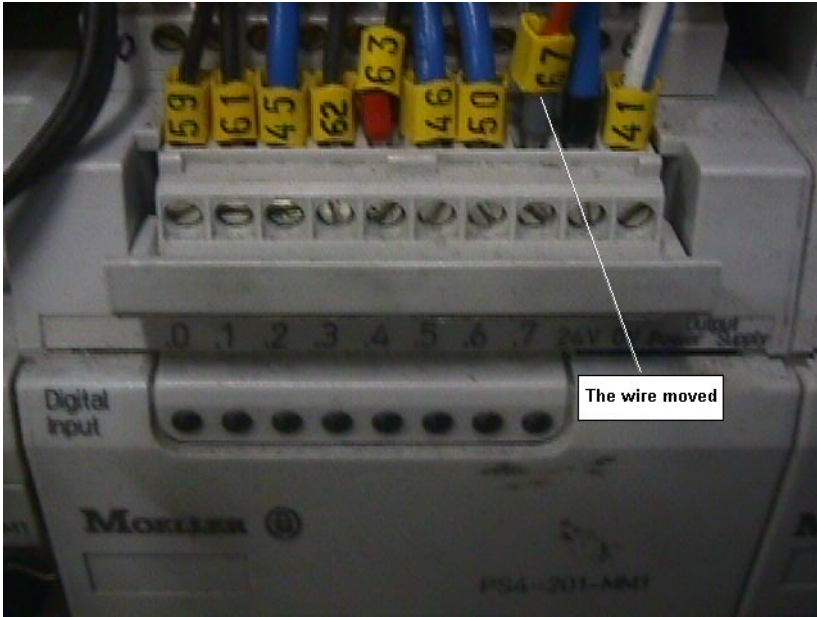

10. Connect input I1.0.6 to +24VDC.
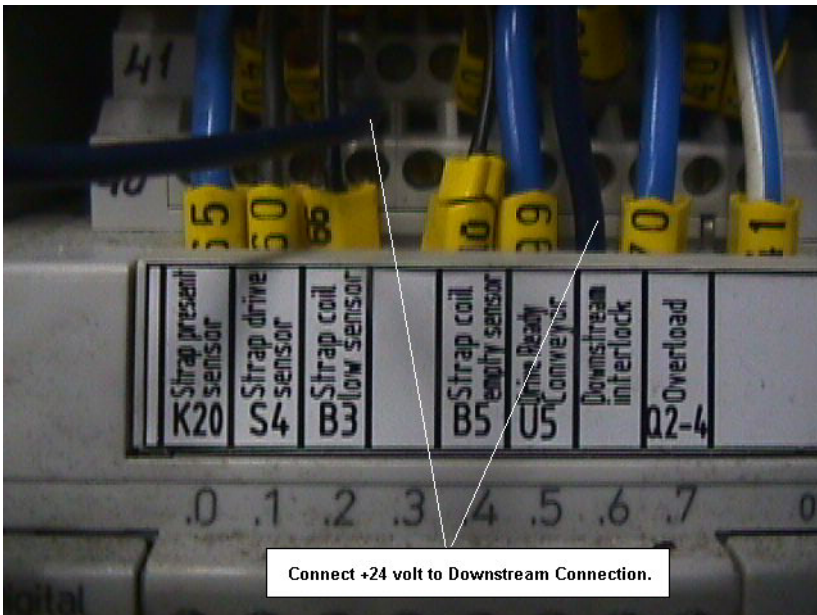
This Section describes the required
Quipp Packman Stacker Software Flash Chip Change

11. Replace the existing Quipp Packman memory flash chip with new chip p/n 9000HP-32200, revision date 2/10/06 or greater. Use the following steps 12 through 21 to replace the flash chip.
12. Make a record of any parameters that are different from the default values. These values will be lost and will have to be reentered after the flash chip change.

13. Open the "Quipp Packman" electrical cabinet and locate the Card Cage.
14. Locate and remove the CPU Card.

MCM-TX

CPU tab

Card Cage

PC cable
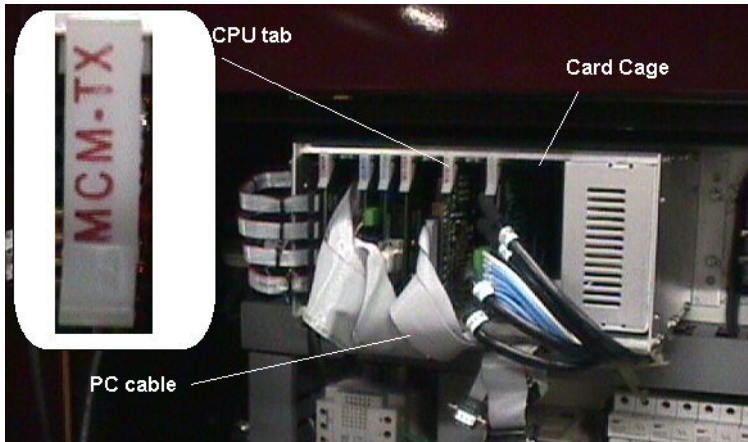
15. Hold the CPU Card by the edges to avoid as much as possible touching any of the metal components. Static electricity discharged from your body could damage this board.
16. Locate the flash chip containing the program. It will have a paper label with the present program number and date.

Note the dot. When installing the upgrade be sure to have the dot here...

Inspect the new flash disk for 'no bent' legs

Remove previous flash disk by prying between the bottom and the socket-carrier with a screw driver
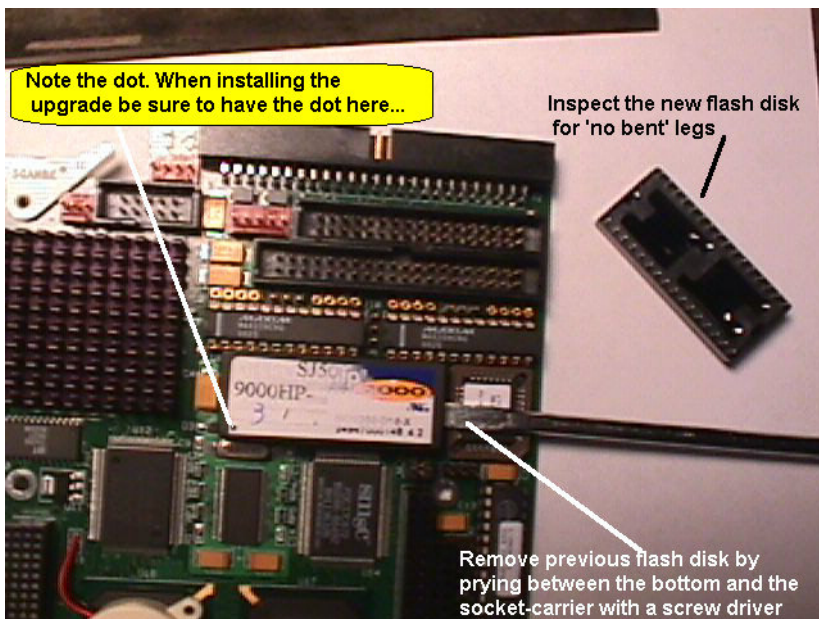
17. Place the CPU card on a non-metallic surface.
18. With a small flat blade gently lift the flash chip evenly out of the socket. Note the position of the locator mark on the top end of the flash chip for correct installation of the new chip. Note that the socket has a similar locator tab.
19. Install the new flash chip in the socket. This may require bending of the pins slightly as you guide them into the socket. When all of the pins have been started into the socket holes, seat the flash chip firmly into the socket. Inspect the flash chip for any bent pins and correct orientation of the locator tab.
20. Re-install the CPU card into the card cage.
21. Power up the Quipp Packman and the strapper.

Verification of proper settings in the strapper and the Quipp Packman controls

22. Verify that the following values are set in the strapper via its touchpad control:
    1. T1 Timer set to 0.140 (140ms)
    2. T2 Timer set to 0.200 (200ms)
    3. T3 Timer set to 0.100 (100ms)
    4. T4 Timer set to 0.100 (100ms)
    5. T5 Timer set to 0.100 (100ms)
    6. T6 Timer set to 0.000 (000ms)
    7. T7 Timer set to 0.020 (20ms)
    8. T8 Timer set to 0.500 (500ms)
    9. T9 Timer set to 0.350 (350ms)
    10. T10 Timer set to 0.000 (0ms)
    11. Belt velocity set to 750mm/s
23. Re-enter the Quipp Packman parameters used by your operation that had been recorded in step 12.

Verification of Proper Operation After Updates are Complete

24. Operate the Quipp Packman in normal production in all the modes of operation applicable to your mailroom and verify that the equipment is operating satisfactorily.
25. After the Quipp Packman has been successfully run in all modes of operation, return the old flash chips (by surface transportation) to:

> Quipp Systems Inc.
> ATTN: Parts Department
> 4800 NW 157th Street
> Miami, FL 33014-6434

26. The ball switches can physically remain in the strapper, however they are now non-functioning after the above steps have been completed. The control system now is set up to operate the strapper without the need for these ball switches.

Revision Record

A. 2/13/06 – Revised Paragraph 11. from "…9000HP-32177, revision date 11/21/05…" to "…9000HP-32200, revision date 2/10/06…".