



**Subject: Telequip Coin Dispensers Giving False Low Coin Indication**

**Overview**

The have been reports from the field of older Telequip units (model: 2+) reporting Low Coin status when in fact there is not a Low Coin condition.

This issue is made even worse with the new software that is required to meet new Weights & Measures requirements which will not allow the robot to continue operation once a Low Coin is detected.

**Problem**

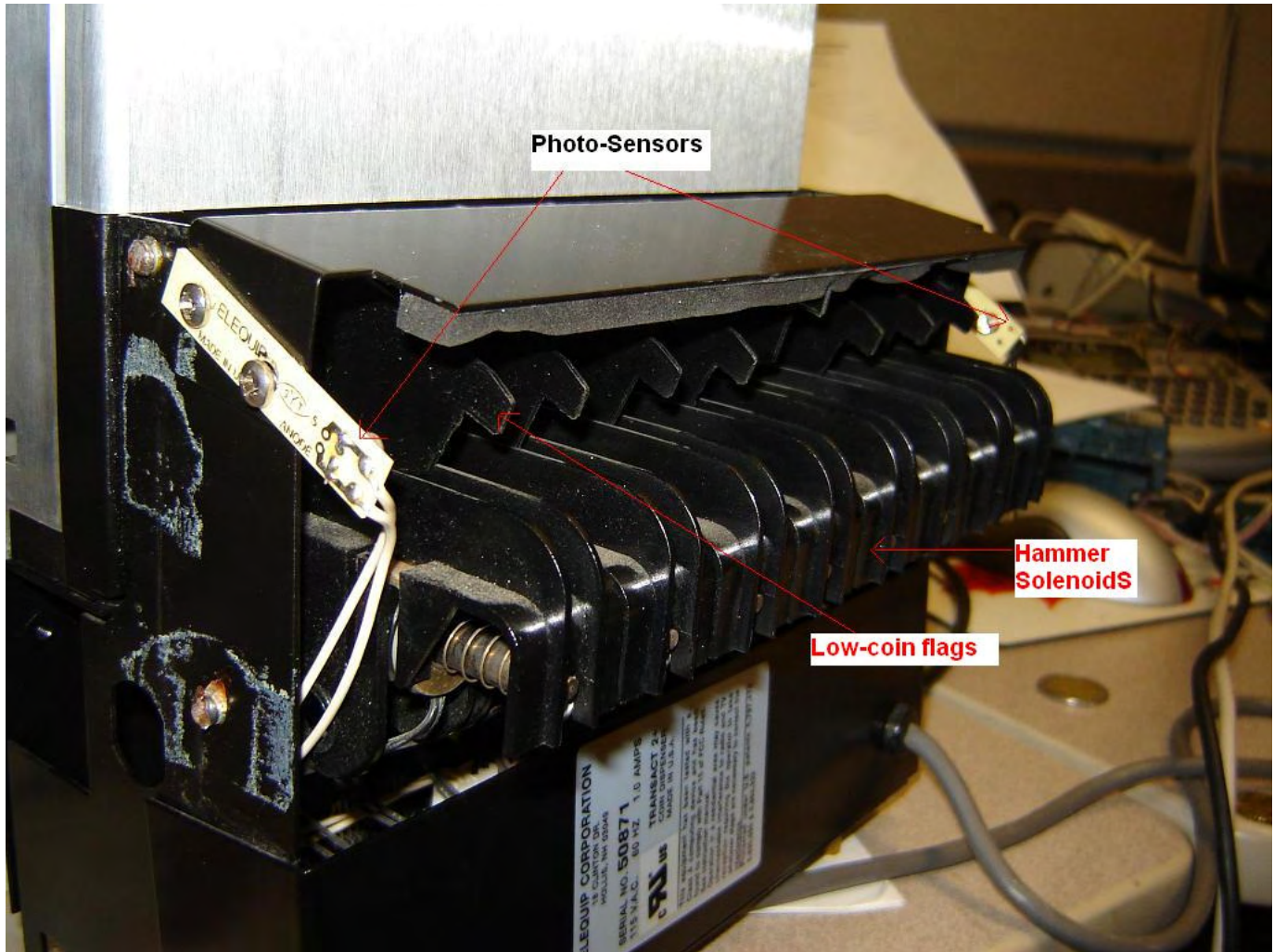
The problem is the photo-sensor for the Low Coin detection is set too low. The hammer solenoids plastic mounting rotates around the shaft when the solenoids fire to dispense coins and momentarily block the light beam of the low coin photo-sensor. On these older model, particularly those having firmware revision 1, the Coin Low status is only reset when the unit is powered OFF and ON.

**Solution**

Adjust the photo-sensor upwards so that the hammer solenoids plastic mounting does not interfere with the light beam of the Low Coin photo-sensor.

See instructions below:

| <u>INQUIRIES TO:</u>  |  | DATE  |
|---|--|-------|
| Fujitsu Transaction Solutions Inc.                              |  |       |
| Exchange:   | Sustaining Engineering   | _____ |
| Mail:   | Fujitsu USA04, Sustaining Engineering  | _____ |
| FAX:  | 858-731-4781 (7888-4781)   | _____ |
| Internet:   | <a href="mailto:SustainingEngineering@ftxs.fujitsu.com">SustainingEngineering@ftxs.fujitsu.com</a> | _____ |
| FTP:  | <a href="ftp://ftp.ftxs.fujitsu.com/">ftp://ftp.ftxs.fujitsu.com/</a>                              | _____ |
| Original signature copies maintained by Sustaining Engineering. |  |       |



**1. To test if this is the issue:**

- a. With the unit powered on and a full canister in place.
- b. Lift up on one of the solenoids, if it blocks the light beam the beeper will sound.  
(Repeat for each of the 8 solenoids)

**2. To adjust the photo-sensors:**

- a. Loosen the 2 screws that hold the photo-sensor assembly.
- b. Rotate the two (2) photo-sensor assemblies upwards, being careful to keep them aligned.
- c. When the beeper sounds due to the low-coin flags breaking the beam, rotate the photo-sensors down so that the low-coin flags no longer interrupt the light beam (the beeper will stop), then continue to rotate the photo-sensors down slightly (approx 1/16") so that it clears the low-coin flags sufficiently that they will not break the light beam during normal operation.
- d. Tighten the two (2) screws on each photo-sensor, being careful that the photo-sensors do not move while doing so.

**3. Test the unit.**

- a. Perform repeated dispenses (about 25) to be certain that the solenoids no longer interfere with the light beam.
- b. Remove most of the coins from 1 column (leaving just enough coins so that the low coin flag is not tripped).
- c. Perform repeated dispenses until the light beam is broken by the low-coin flag and the beeper sounds indicating proper operation.