# **Gates service document**

You should consider to upgrade your machine to the Prim standard if you have a machine with inbuilt light in the camera house (see illustration to the right) as the Prim model has a greatly improved gate function.

# A. TOO MANY CARDS

The gate is too high up, or stays open too long if it catches too many cards.

### Remedies

Try the stated remedies one by one in the listed order until the problem is solved.

## 1. Check that the gate moves freely up and

**down.** Clean and lubricate the parts going through the panels with silicon grease, if needed.

2. Insert a card by hand. Start Hardware Diagnostics Gate test and check that the distance between the opened gate and the card's edge is

≤ 1.5 mm if NOT Prim no maximum if Prim

Adjust by moving the solenoid up/down. You need both a 2 mm and 2.5 mm allen key for this. The bolts are reached from the card path, see the upper image to the right.

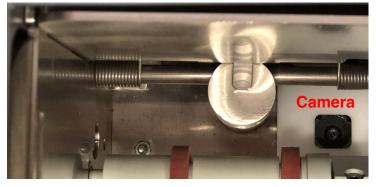
How to remove the cover is shown in a separate document and a video.

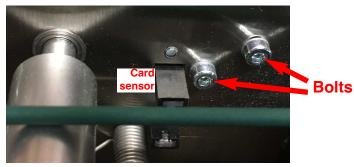
**Note** that the solenoid shall be "just passed 12" when you lock its bolts, see the lower illustration to the right.

### Not needed on Prim machines

3. Check that the gate wire [in its up and down positions] does not reach out more than 0.5 mm through the outer panel than the bolt just above it. Put a washer under the bolt, if needed.

4. Put a 1,5 mm thick nylon washer around the solenoid's anchor at the spring's lower end. (i.e. below the spring pulling the anchor out of the solenoid.)







## **B. TOO FEW CARDS**

1. Clean and lubricate the parts of the gate that go through the panels, if not already done.

2. Insert a card by hand and check that the distance between the opened gate and the edge of the card is > 1.5 mm; preferably > 2.5 mm on Prim units.