

Magnus VLF MCU

Multi-Cassette Unit Setup Procedure
For Flush Plate Loading MCUs

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Revision History

Revision	Date	Author	Comments
1	28 Mar 2005	Martin Wight	First release for flush plate loading MCUs – field setup procedures only
A	29 April 2005	Martin Wight	Procedure updates.

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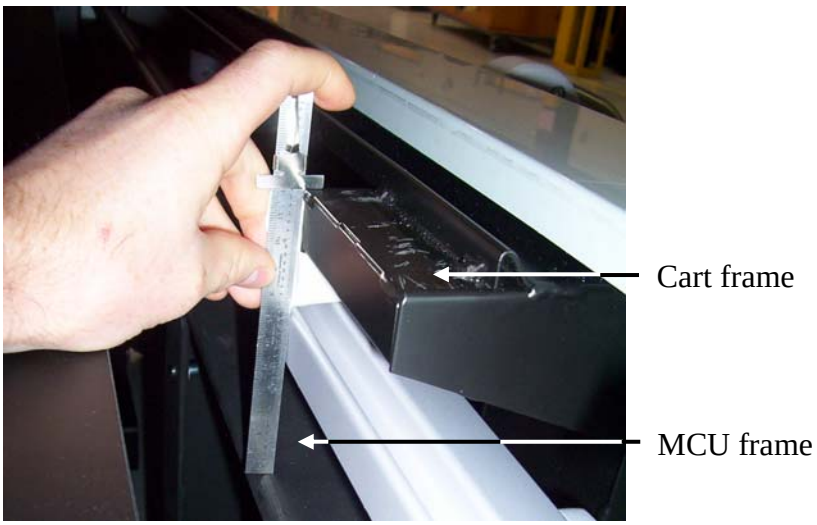
1. PREPARATION

Before the Multi-Cassette Unit (MCU) can be set up, the following must be done:

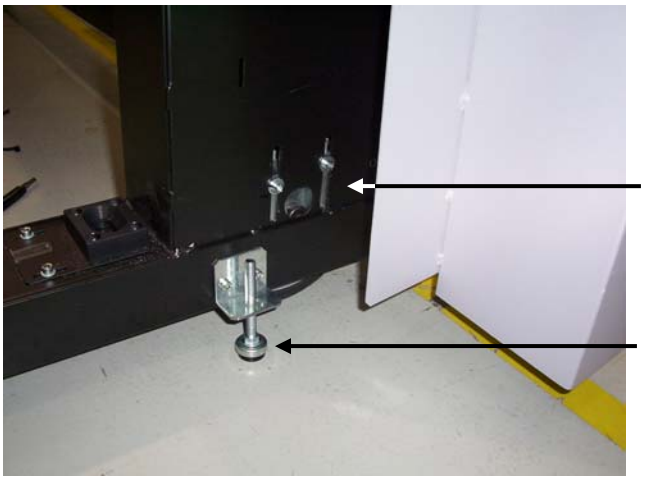
- The MCU has been leveled and is aligned with the Magnus VLF base device.
- The MCU must have power such that the fork position can be adjusted.
- The MCU must be connected to the airline.

2. ADJUSTING THE CART HEIGHT

1. Type `>>cassette door open` to raise the cassette door.
2. Type `>>cassette cartpin up` to raise the cassette cart pin.
3. Measure the distance between the cart frame height and the MCU frame height as shown below. The cart frame should be 120 mm +/- 2 mm (4.72 in. +/- 0.08 in.) above the MCU frame. Each side should be within 2 mm of the other.



4. To adjust the cart height, attach the cart lifting jigs (attached to cart frame) on either side of the cart frame using a 4 mm hex key.



5. Screw the lifting jig feet down until they make contact with the floor.
6. Loosen the wheel bracket screws on both sides of the cart (four per wheel bracket) and turn the lifting jig feet to adjust the cart height.

Note: Because the cart wheels will compress, adjust the foot to raise the cart 2-3 mm (1/8 in.) higher than the desired height.

7. Tighten the wheel bracket screws. Ensure you keep the wheel bracket screws level when tightening them.
8. Remove the cart lifting jigs and re-measure the cart height.
9. Repeat if necessary.

2.1 Alternate method of adjusting the cart height

1. Raise the cart on the lifting jigs and slide the cart in.
2. Set the gap between the top of the cassette rollers and the bottom lip of the cart to 3-4 mm—use a 3 mm hex key to set the gap.



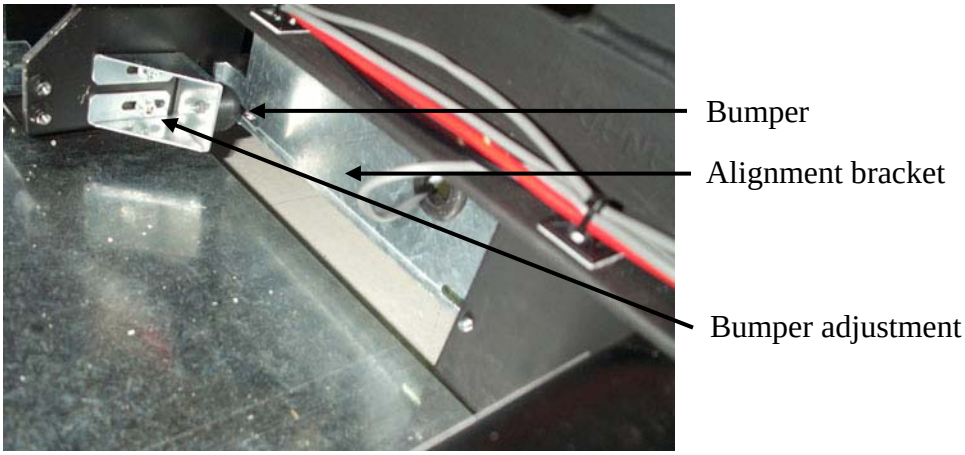
3. Tighten the wheel bracket screws.
4. Remove the lifting jigs.

5. Re-measure the height of the cart.
6. Repeat if necessary.

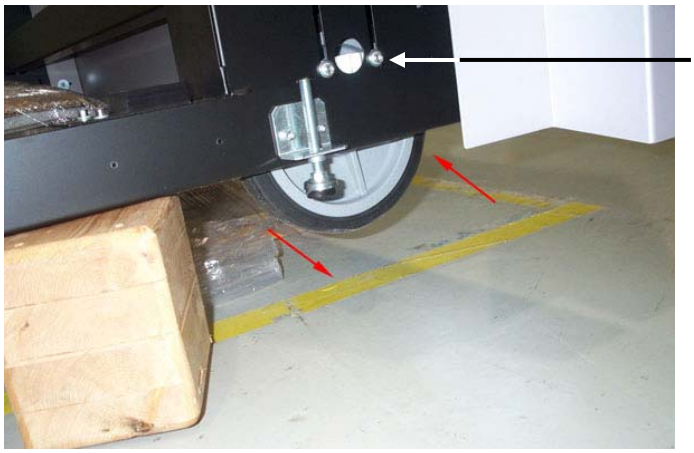
3. SETTING THE CART ROLLING ALIGNMENT

The cart should roll in and out of the MCU straight or slightly to the right. For example, the cart will wander slightly to the operator's right-hand side while pulling the cart out.

1. Roll the cart in and out several times and take note if the cart skews to one side or the other. The easiest way to recognize this is to see which cart out bumper hits the alignment bracket first.



2. If the bumpers do not hit the alignment bracket at the same time, then you can do one of two things:
   - Adjust the position of the bumpers; this will also require adjusting the strike block locations.
   - Adjust the alignment of the cart. Only use this option if the left-hand cart out bumper does not contact the alignment bracket. To align the cart:
     a. Pull the cart to the fully out position.
     b. Put the left-hand side cart frame on a wooden block and mark the height of the wheel bracket.
     c. Loosen two of the screws securing the wheel bracket in place and twist the wheel slightly as shown in the next photo.



d. While holding the wheel twisted, tighten the wheel bracket screws.

e. Remove the wooden block.

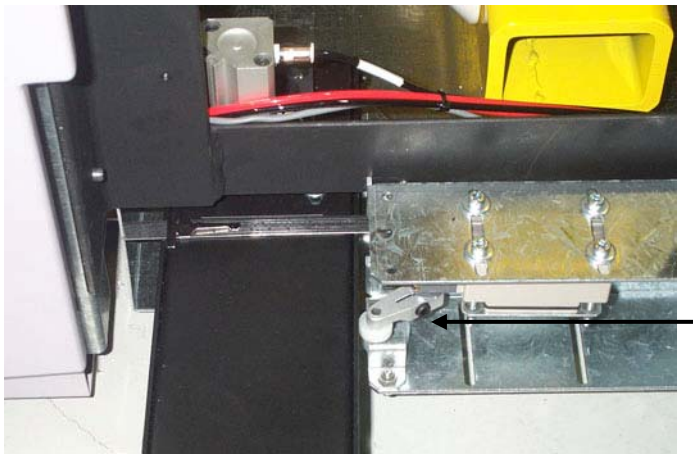
f. Repeat steps 1 and 2 until the cart is correctly aligned.

Note: If the cart is not aligned correctly, the cart home sensor arm may flip to the wrong side causing unrecoverable errors.

3.1 Checking the cart switch orientation

The rocker arm on the cart home sensor switch and cart park sensor switch can flip out and point in the wrong direction. It is critical to check that these switches are in the correct orientation.

1. Check that the rocker arm on the home switch points towards the front of the MCU. If it does not, correct it.



2. Check that the rocker arm on the park switch points towards the rear of the MCU. If it does not, correct it.

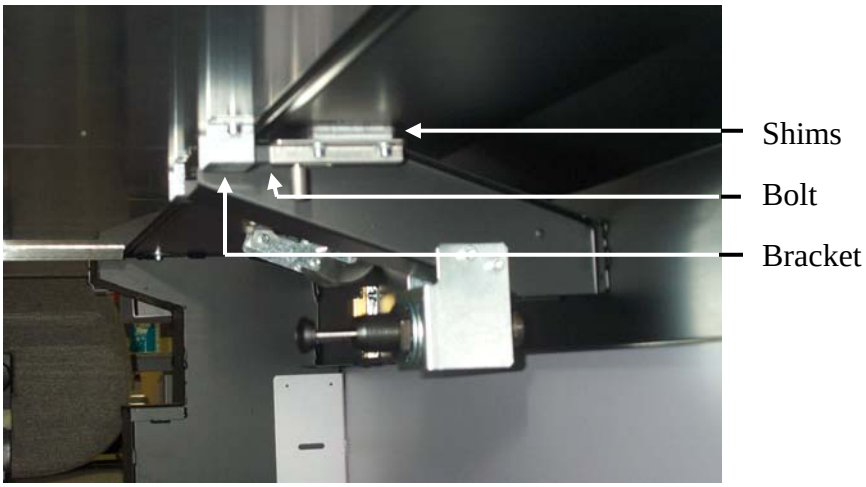
When ECO CA07238 is released and implemented (kit # 512-00286A), the chance of the switch flipping out will be reduced.

4. SETTING THE CASSETTE LATCH

If the floor slopes away from the MCU as you pull the cart out, the cassette latch shims may need adjustment.

1. To check the floor slope in front of the MCU, place a digital level on the cart legs and move the cart in and out as much as possible without damaging the level. If the floor slopes away from the MCU, check for interference between the cassette latch bolt and the cassette latch bracket.

2. If there is any interference between the cassette latch bolt and the cassette latch bracket in the first half of the cart travel, remove one or both of the shims between the cassette latch and the cart frame. Be careful not to over-torque the cassette latch screws. Check that the cassette latch bolt snaps freely after tightening these screws.



3. Check that the cassette latches still hold the cassette to the cart.
   Grab the corner of the cassette and try lifting it from the cart. If the cassette lifts from the cart, do one of the following:

   - Put a shim back and raise the height of the cart slightly by lowering the wheels.
   - Add washers between the cassette latch and the shims or the cart frame.