The New Motor Generation MHP2

MAGNETIC® ACCESS TO PROGRESS

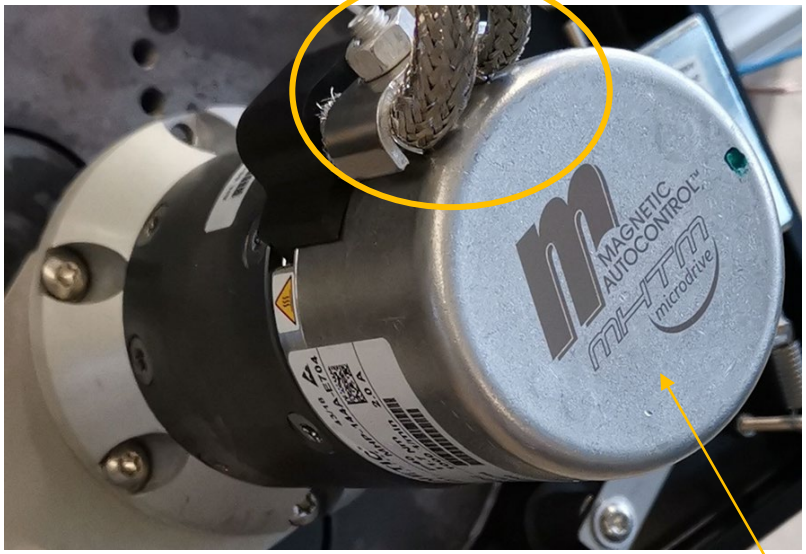
Exchange and Modification Information

www.MagneticGateOpeners.com | (800) 878-7829 | Sales@MagneticGateOpeners.com

MHP2

External Identification of MHP2 to MHP1

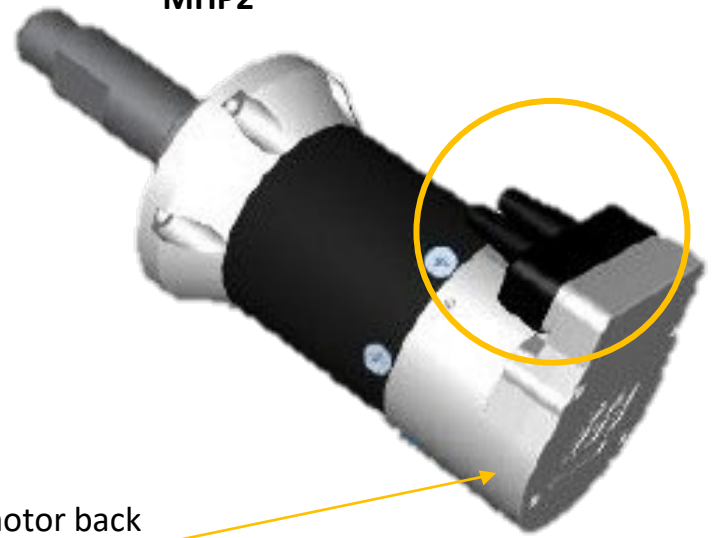
MHP1



The MHP1 cable exit is pointed away from the motor shaft.

The new MHP2 cable exit is pointed in the direction of the shaft.

MHP2



Redesign of motor back side

MHP2, (MicroDrive barriers)

What will change due to the new MHP2 motor generation?

MAGNETIC® ACCESS TO PROGRESS

MHP-144A-E**100** (round gear box)
AccessPro; ParkingPro; Toll; TollPro

MHP-144A-E**101** (square gear box)
Access; Parking

→ MHP-**244**A-E100

MHP-144A-E**103** (square gear box)
Access-L

→ MHP-**244**A-E103

MHP-145A-E**100** (round gear box)
Access Pro-L ; Access Pro-H

→ MHP-**245**A-E100

MHP2 (MicroDrive barriers)

What will change due to the new MHP2 motor generation?

MHK-166B-E100
Access-XL, ACCESS-XL2
MHK-166B-E101
Access-XXL

MHP-144A-F100
Toll HiSpeed
MHP-144A-F101
Toll HiSpeed2
MHP-144A-E106
Toll PRO2

Testing is ongoing and the new motor changes will take place at a later date.

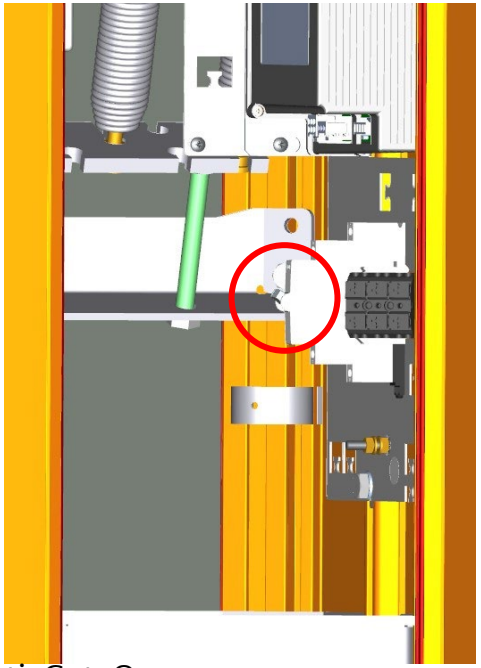
MHP2 (MicroDrive barriers)

The mechanical conversion from MHP1 to MHP2

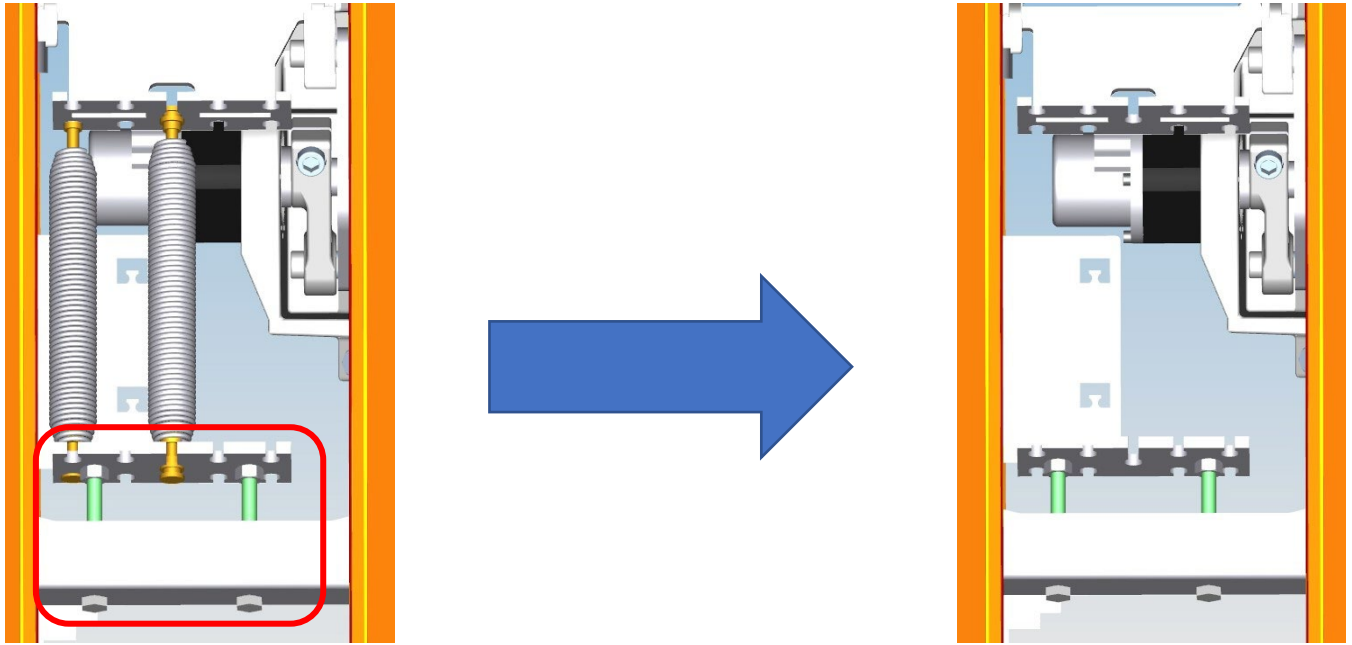
Please put the arm in “open” position

Lever system position
when arm is up

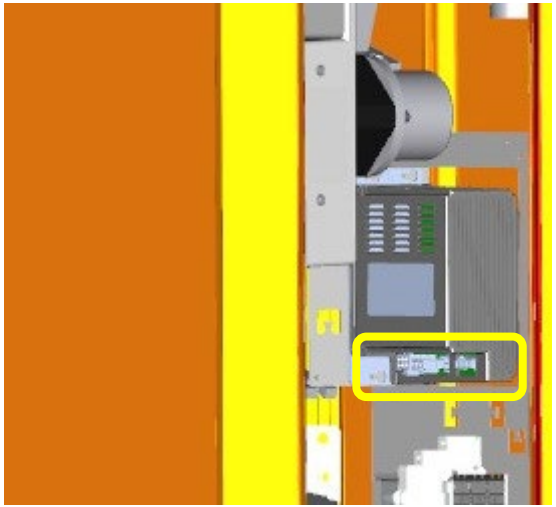
Then make sure, that the barrier is disconnected from line voltage. To do this, the main switch must be switched off. Then the arm must be removed.

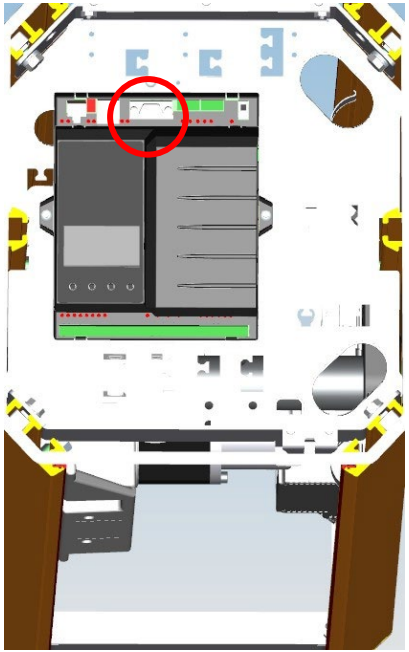


Then the springs must be relaxed via the tensioning bolts in order to remove them.

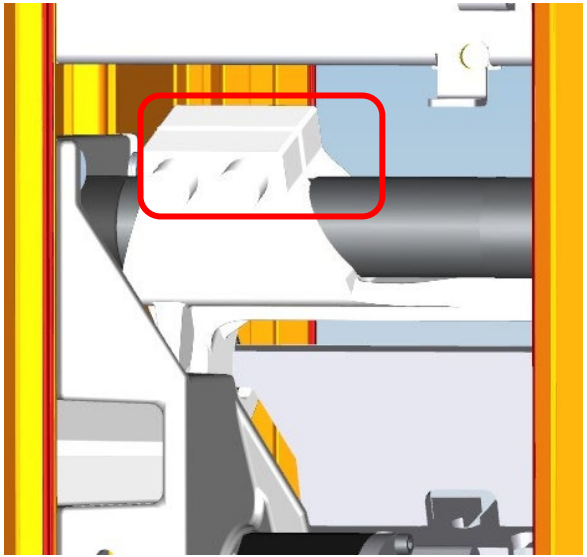


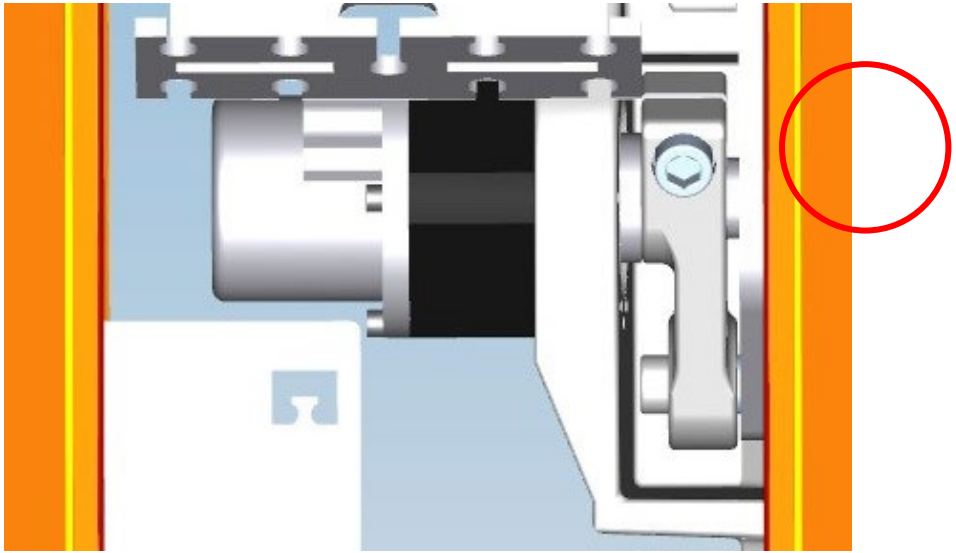
Then remove the motor electrical connections on the power supply and the MGC.





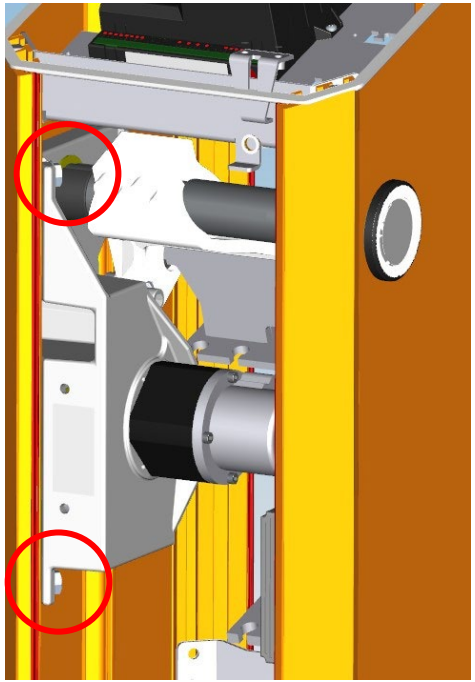
Then loosen the screws of the flanges on the barrier shaft and the lever system

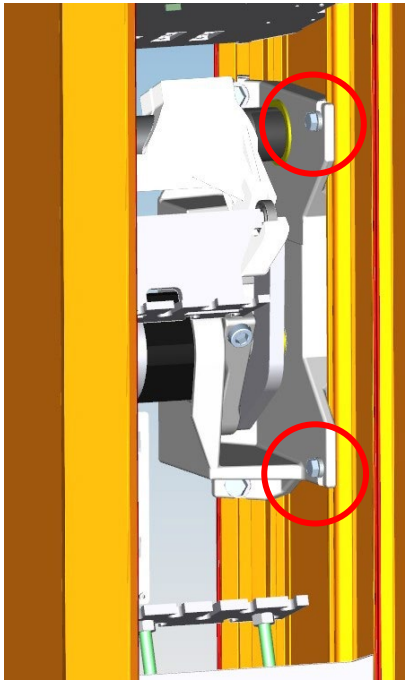




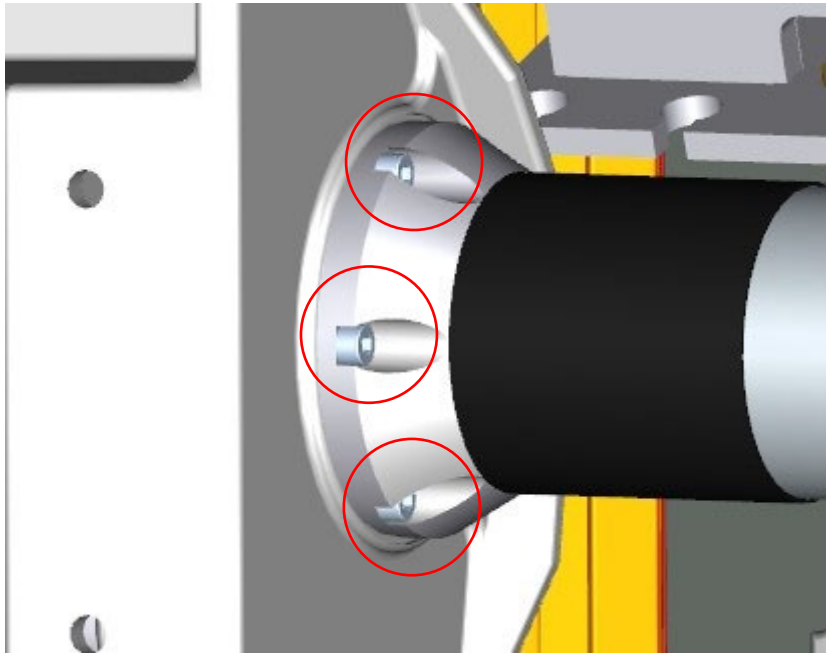
NOTE! Replace the flange in the same position (**arm in open position**)

Loosen, do not remove, the 4 screws on the drive unit base plate and remove shaft spacer



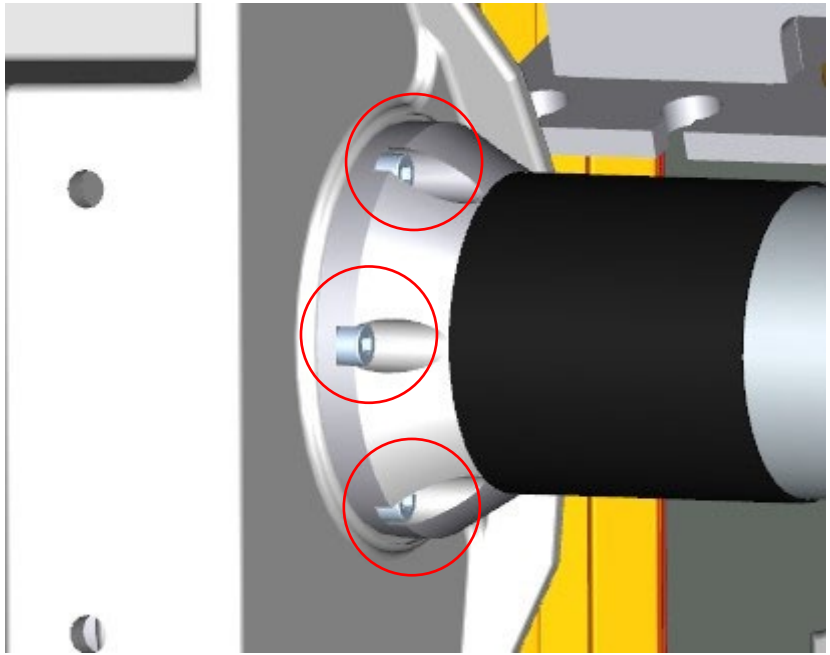


In the last step before dismantling the MHP1 geared motor, all the screws must be removed, the gear motor can then be removed from the barrier.



Then, in reverse order, mount the new MHP2 drive unit

! Caution, the screws of the motor gear unit must be secured with Loctite 241!



New firmware **must** be installed after the replacement. An SM01 Service module must be used to update the firmware on the MicroDrive controller. Connecting a laptop to the SM01 simplifies the process.

When replacing MHP1 with MHP2, firmware packages from version SMP-MGC-VA0_2x **must** be installed!

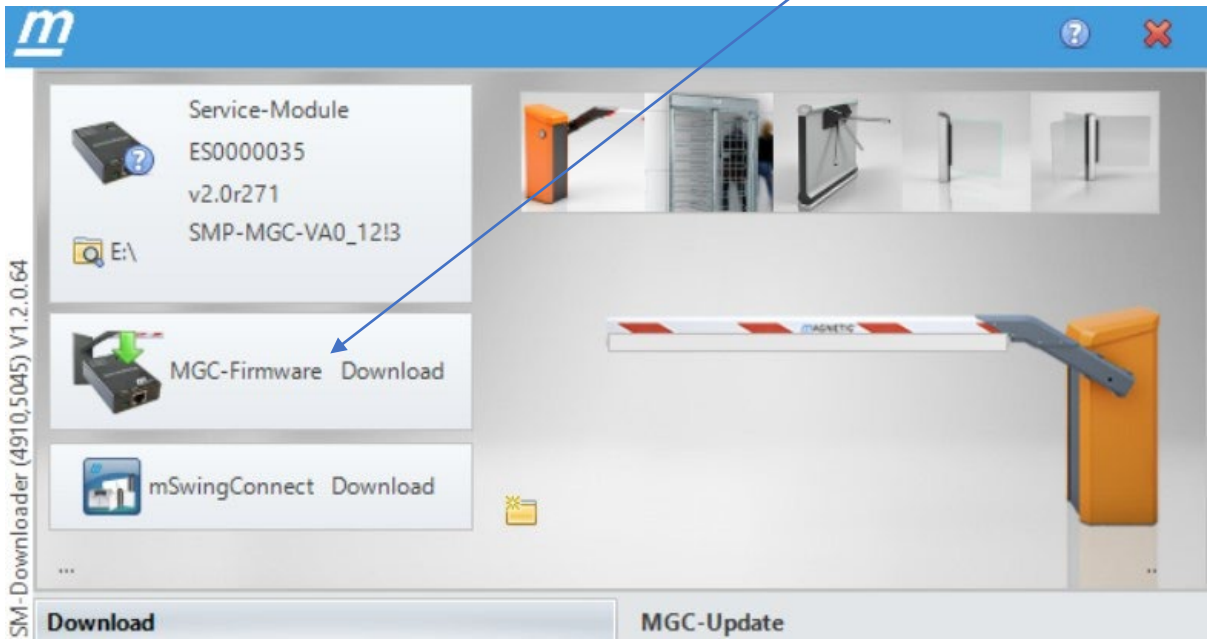
In addition, the “Motor Gateway” was renamed to “Safety Controller”.

Update via computer and SM01 service module

MHP2

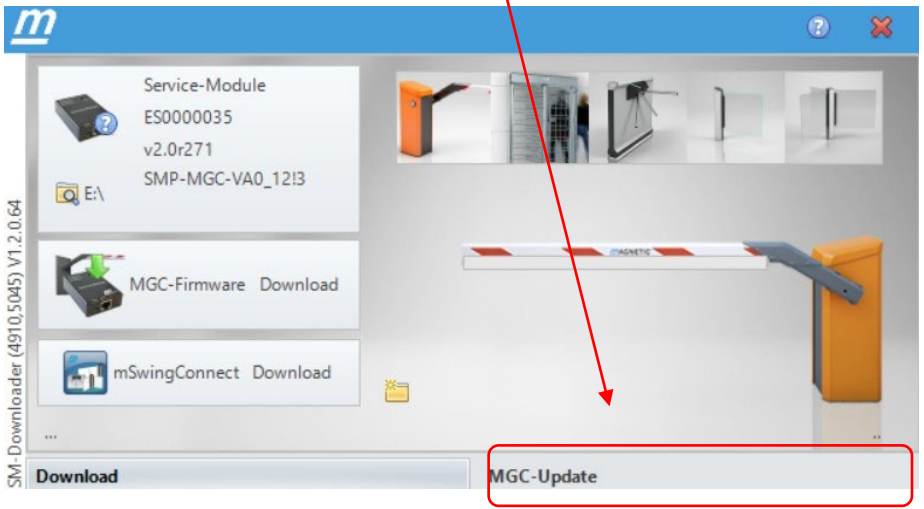
Update **with** Laptop

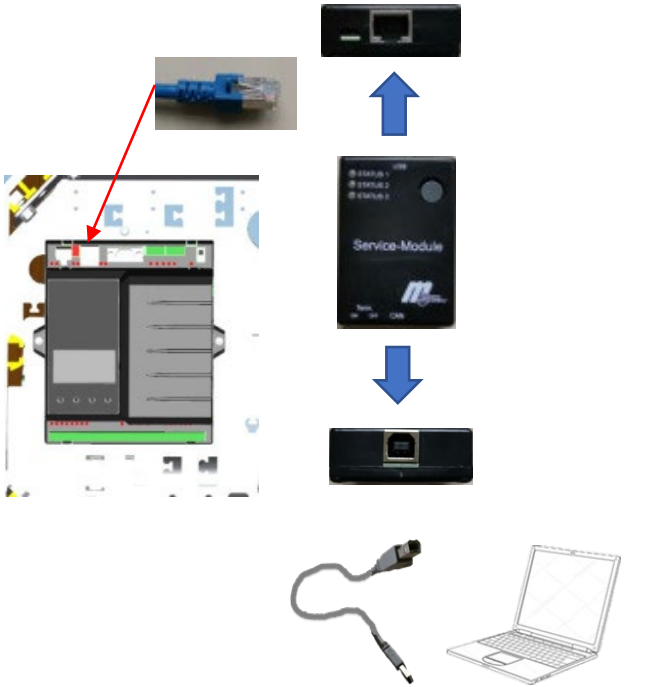
1. Plug the SM01 to the Laptop and download the latest firmware updates using the SM_Downloader software



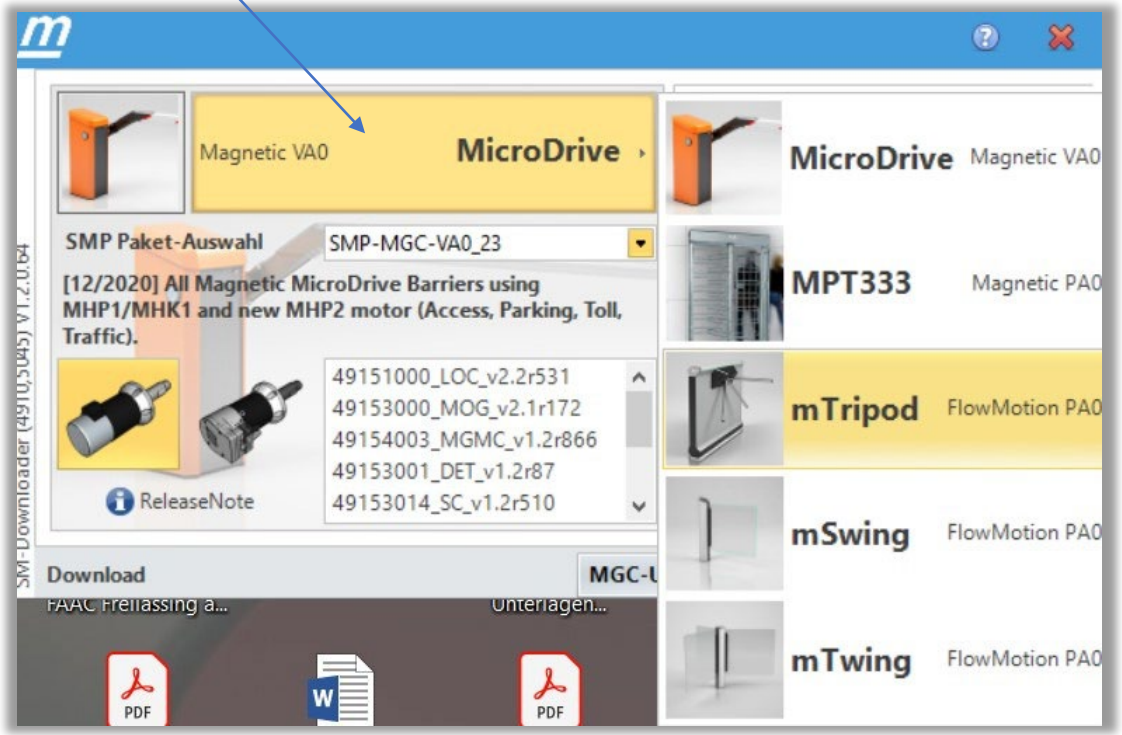
2. Connect the MGC controller to the Laptop via the SM01

3. Then switch to the firmware page by clicking in this area



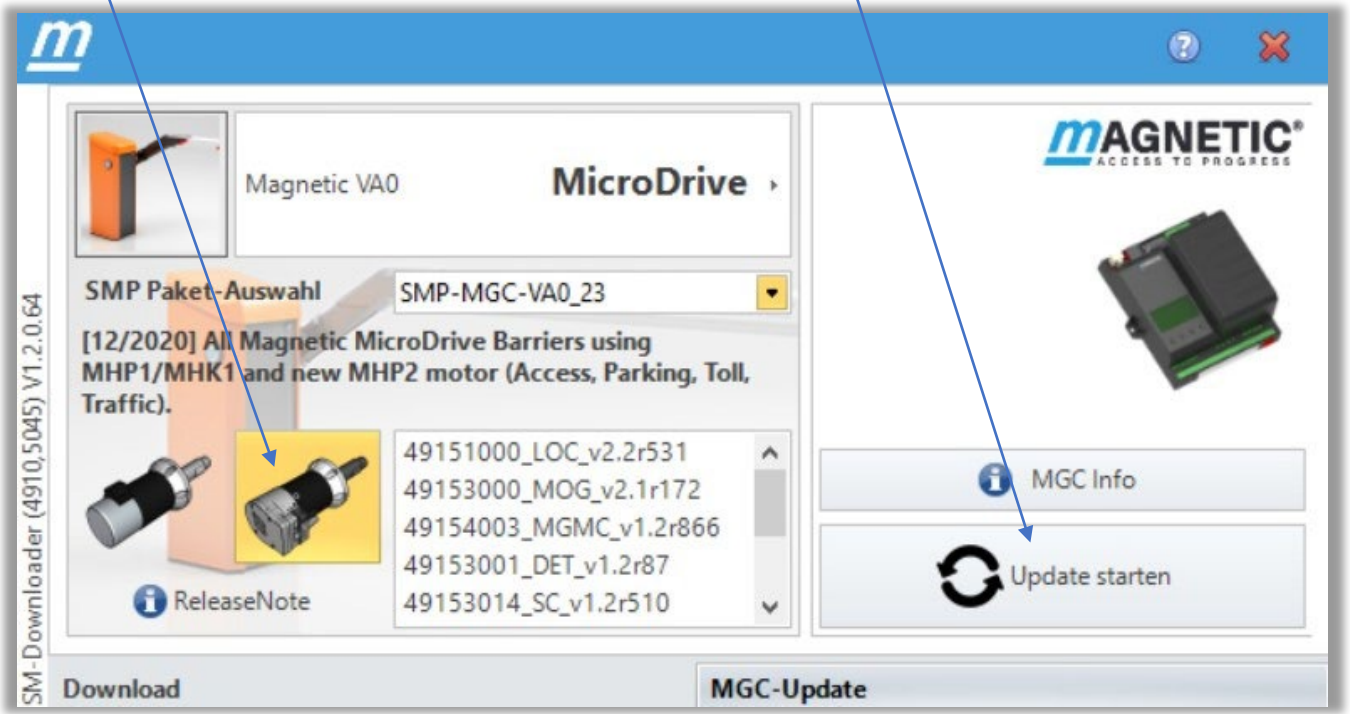


4. Use this area to select the product (MicroDrive)



5. Click on the symbol of the new motor …

6. … then start the update

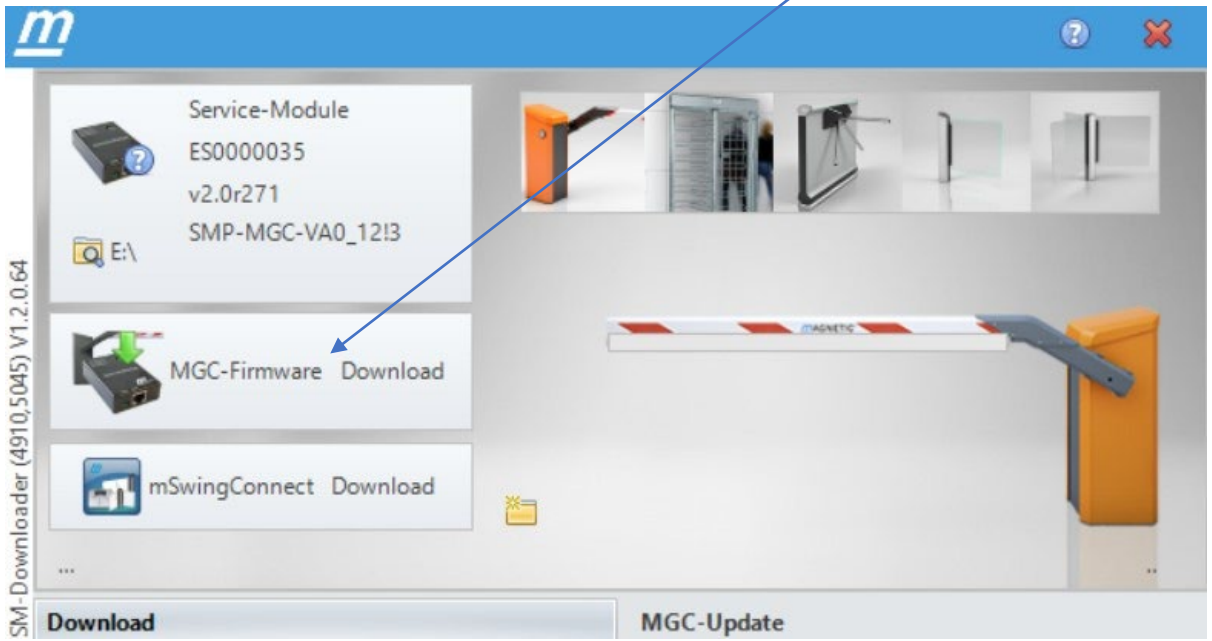


Update via SM01 service module **only**

MHP2

Update via SM01

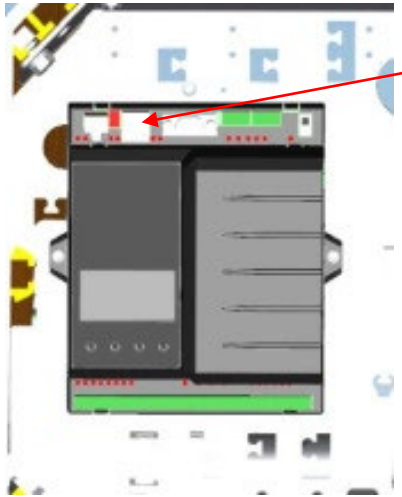
1. The latest firmware must first be loaded onto the SM01 via a PC connection



2. Unplug SM01 from the computer

3. Connect the SM01 to the MGC controller

MicroDrive



In the main menu of the MGC you then must switch to the “Factory setting” menu

Operating view → Main menu → Factory Settings

- Select “User setting as factory setting” in the menu

In the main menu of the MGC, switch to the “Service Module” menu

Operating view → Main menu → Service Module

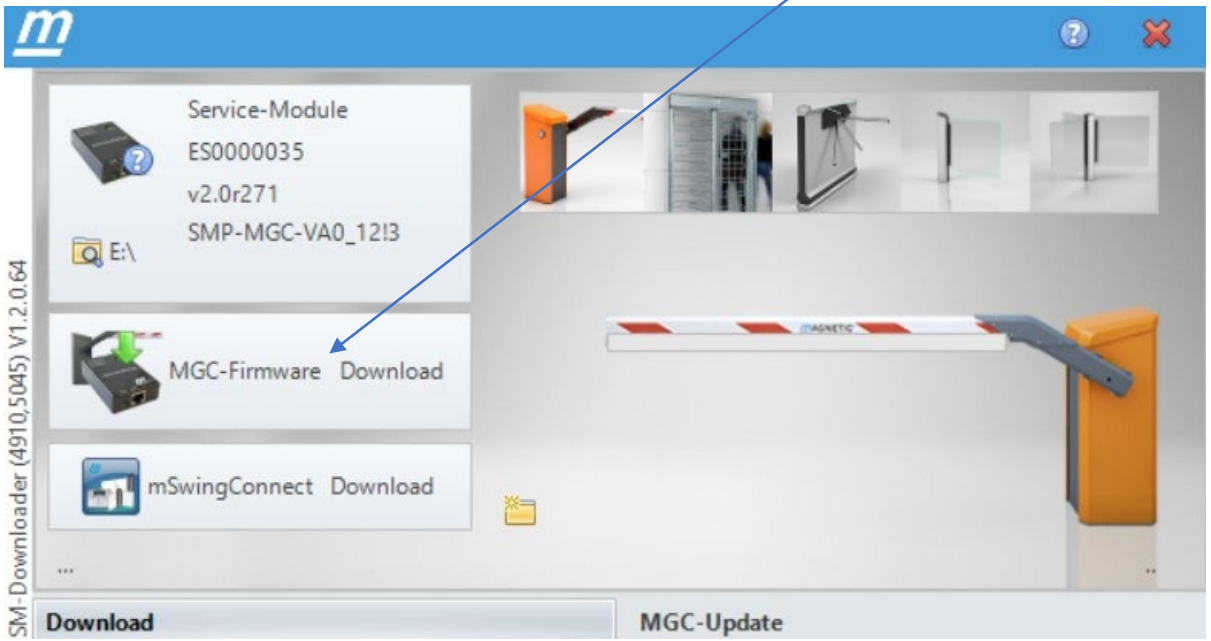
- Select “**Package switching**” and the select the firmware “**PREPARE_FOR_MHP2**”
- Then press the push button on the SM01 and wait until the red LED next to socket X12 flashes at 1Hz
- Perform a reset on the barrier (press both middle buttons of the MGC at the same time)
- In the “Package switching” menu, select the firmware “SMP-MGC-VA0_XX” for MicroDrive
- Then press the push button on the SM01 again
- If a success message is shown on the display, the update is finished

What if you are replacing an MHP2 motor with an MHP1?

MHP2

Reprograming MHP2 back to MHP1

1. The latest firmware must first be loaded onto the SM01 via a PC connection

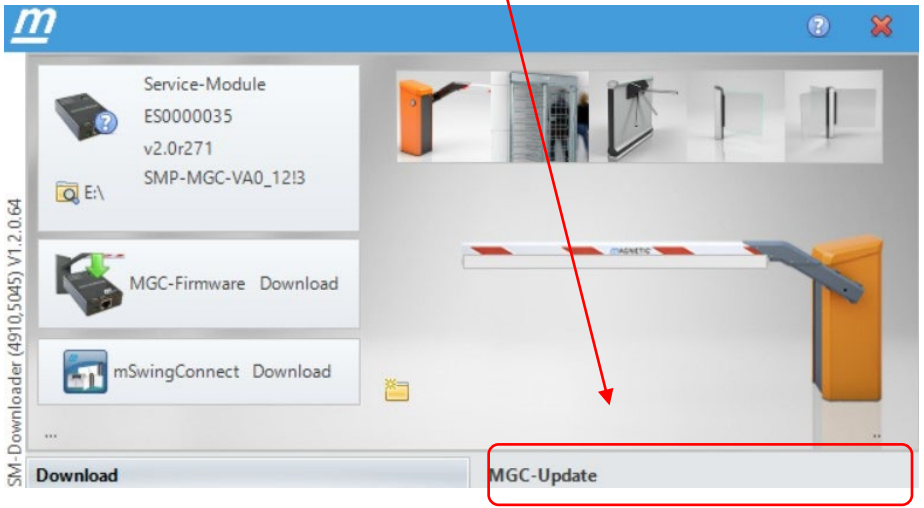


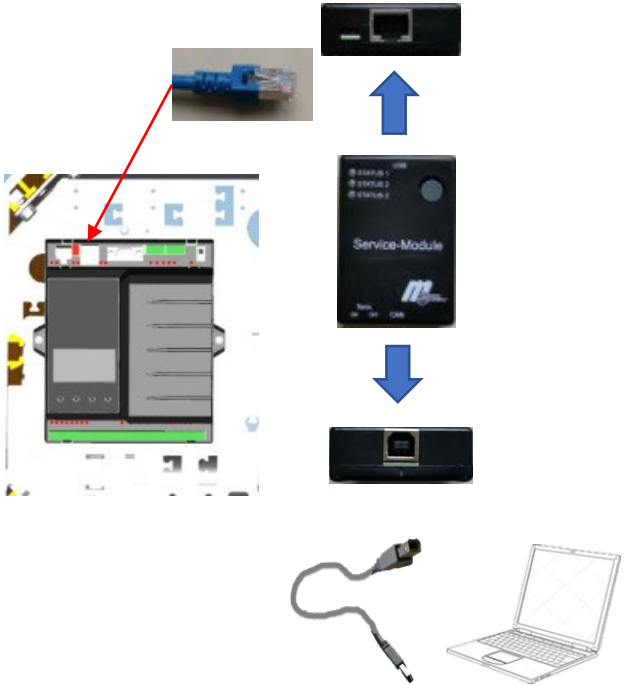
MHP2 to MHP1

Update **with** Laptop

2. Connect the MGC controller to the Laptop via the SM01

3. Then switch to the firmware page by clicking in this area



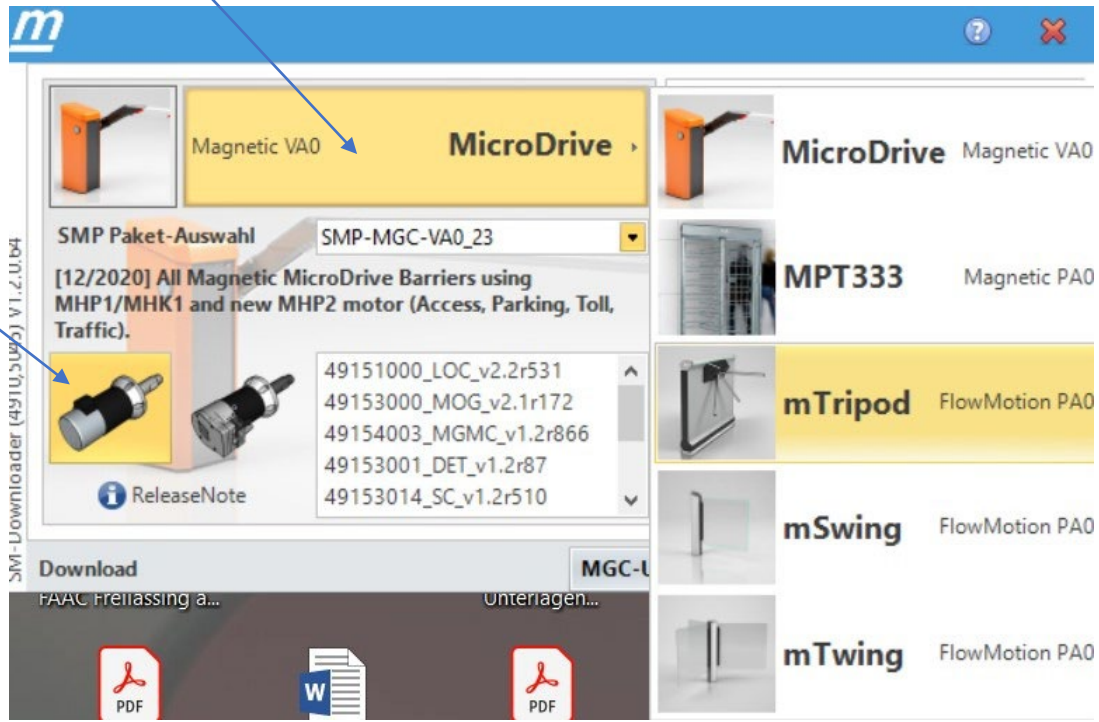


MHP2 to MHP1

Update **with** Laptop

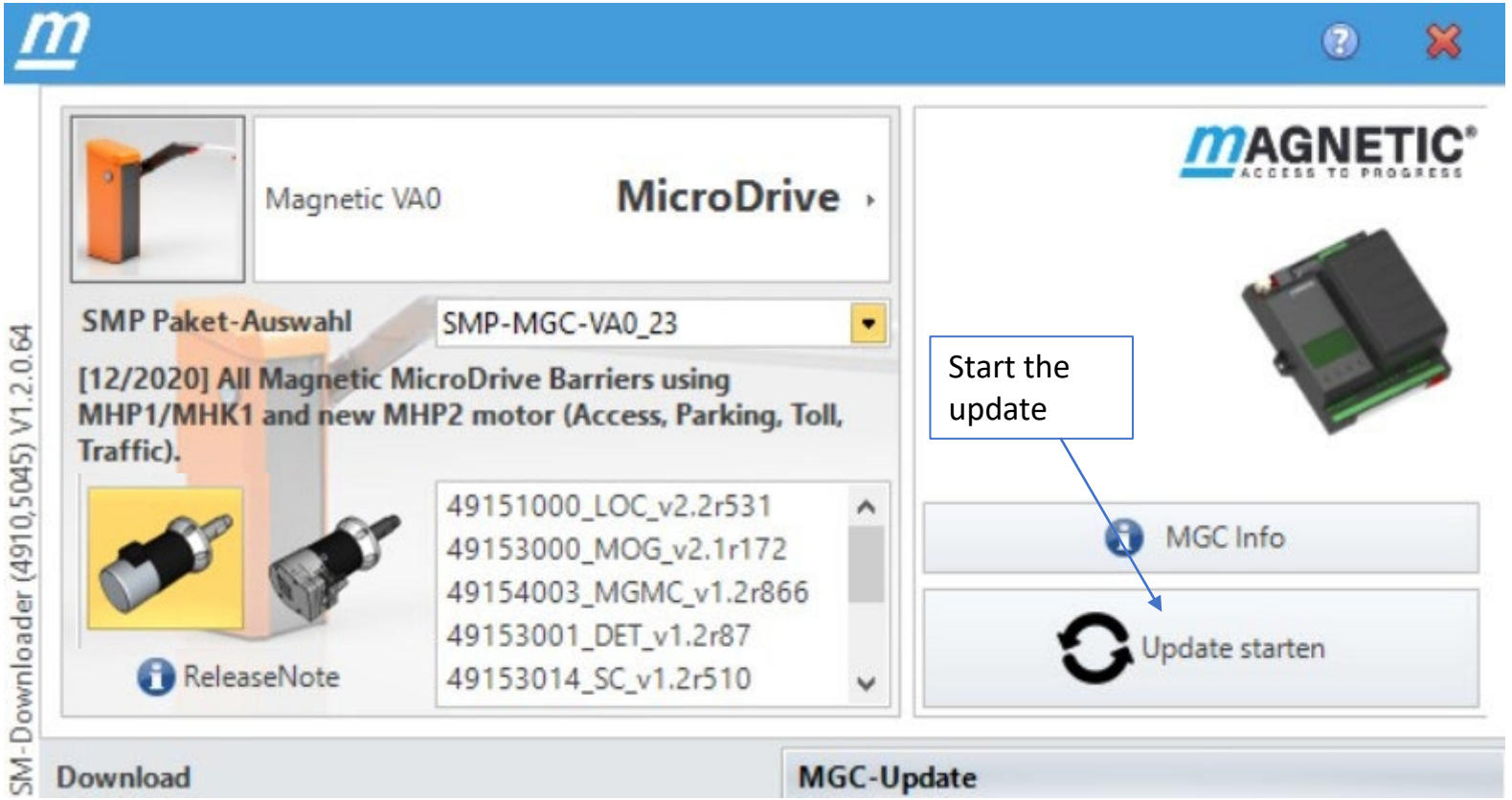
4. Use this area to select the product (MicroDrive)

5. Press the button with the MHP1 motor



MHP2 to MHP1

Update **with** Laptop



In the main menu of the MGC you then must switch to the “Factory setting” menu

Operating view → Main menu → Factory Settings

- Select “User setting as factory setting” in the menu

In the main menu of the MGC, switch to the “Service Module” menu

Operating view → Main menu → Service Module

- Select “**Package switching**” and then select the firmware “**PREPARE_FOR_MHP1**”
- Then press the push button on the SM01 and wait until the red LED next to socket X12 flashes at 1Hz
- Perform a reset on the barrier (press both middle buttons of the MGC at the same time)
- In the “Package switching” menu, select the firmware “SMP-MGC-VA0_XX” for MicroDrive
- Then press the push button on the SM01 again
- If a success message is shown on the display, the update is finished