

Magnus VLF Autoloader

Carriage Amplifier Upgrade Procedure

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Revision History

Revision	Date	Author	Comments
A	2005-02-11	K. Cheng	First Release
B	15 Mar 2005	A.Blignaut	Edited and formatted
C	25 Mar 2005	A.Blignaut	Added note for grease upgrade for maximum speed

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1. TOOLS REQUIRED

- Wire cutter
- 3 and 4 mm hex keys
- #2 Philip screw driver

2. PARTS REQUIRED

512-00255A, KIT,UPGRADE,CA06530,CA SLOW INTEGR,AUTO,MTA

Upgrade kit includes:

- 719-00455A, DOC,UPGRADE,CA06530,CARRIAG AMP,ATUO,MTA (qty 1)
- 503-00265A,BRD,ASSY,CARRIAGE AMP,10A,SLOW INTEGRTR (qty 3)
- 13-4791,PS,48V,600W,PFC,UNIVERSAL,CHASSIS (qty 1)

3. PROCEDURE

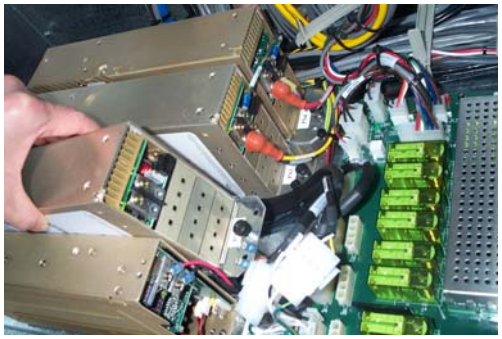
3.1 Turning the main power off

1. Turn the main switch at the power entry box to OFF.
2. Remove the left front panel and turn SW2 to OFF.
3. Remove the power box cover.

3.2 Removing the 400W power supply

1. Disconnect the two terminals of power cable 10-5114A from the DC output of PS2.
2. Undo the two mounting screws for the PS2 bracket.





3. Lift up the supply and disconnect the AC power connection.
4. Undo the four M4 screws on the bottom of the PS2 bracket to release the 400W power supply .

3.3 Installing the 600W power supply

1. Install the 600W power supply on the PS2 bracket with the same screws.
2. Connect the AC terminal of cable 10-5114A to the AC terminals of the new power supply (Line1/Line2 connect to the AC terminals, and ground connects to the ground terminals). Ensure that the connections are good.
3. Install the PS2 bracket in the power box.
4. Connect the DC terminals to the PS2 output as specified in the new Designation label 382-00596A. (brown wire goes to positive terminal; black wire goes to negative terminal).

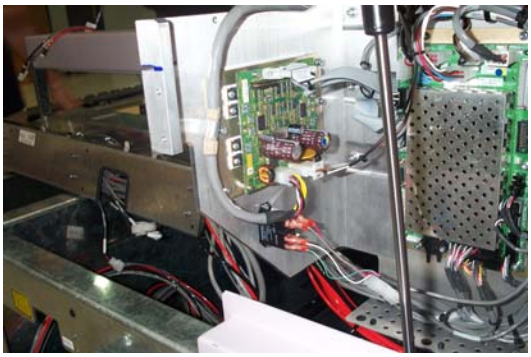
3.4 Replacing the three carriage amplifiers

1. Disconnect and remove the two carriage amplifiers from the power box and install two new carriage amplifiers (503-00265A) in their place.





2. Disconnect and remove the carriage amplifier from the MAB bracket and install a new carriage amplifier (503-00265A).



3.5 Turning the main power on

Note: Before setting the carriage to run at maximum speed, you must replace the carriage ballscrew bearing assembly. See the Magnus VLF Procedures page for details.

1. Visually check all the power supply and carriage amplifier connections.
2. Install the power box cover and turn SW2 to ON.
3. Install the left front panel.
4. Turn the main switch at the power entry box to ON.

3.6 Changing the carriage amplifier parameters

In Service Shell, change the following parameters:

- `>>set carriage imove 10`
- `>>set carriage iplot 8`
- `>>set mspeed 42`
- `>>set accel 40`
- `>>set fetchergain 5`
- `>>set ejectorgain 5`