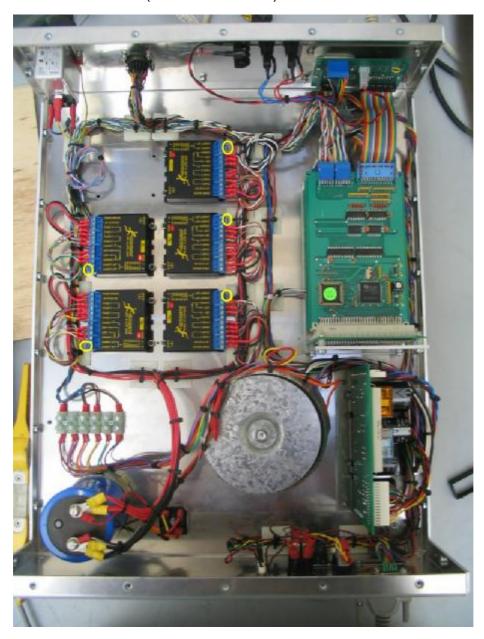**ST Robotics**

Configuring the R17 for low speeds

Changing the controller fitted with Gecko Drives:
The K11R controller supplied with the R17 is usually configured for high speeds and high payloads. If you wish to use the robot for low speeds with gentle accelerations you may experience vibration. You can reconfigure the controller for low gentle speeds as follows:

Step 1: switch off and isolate the controller and remove the cover.

Controller inside (viewed from front)**:**

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Step 2:
Remove the resistors shown in the picture highlighted by yellow rings.
Replace them with resistors as follows:
Right hand side (row of 3) 22k
Left hand side (row of 2) 15k

Step 3.
Power up the controller, START CALIBRATE HOME. If all is ok select teach
mode with a speed of 4. Locate small screwdriver adjustments in the sides of
the Gecko drive modules. These are low speed resonance adjustments,
Starting with the waist (J1), module 1 (bottom right in picture) press the + or –
key on the teach pad to slowly move the axis. Wind the adjuster from one side
to the other until the motor makes least noise. Repeat for the other axes.

Step 4.
Switch off the controller and replace the cover.