

APR-5000-XL X-AXIS Motor Control Box #4 Checks

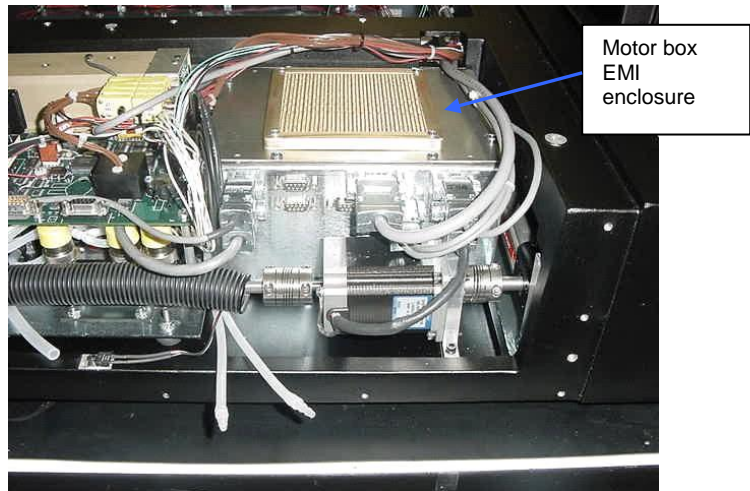
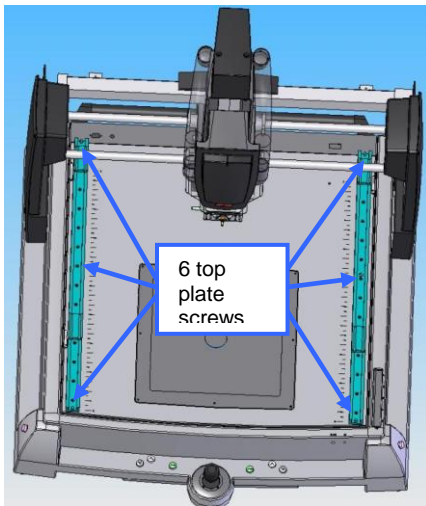
Symptom: No or intermittent x-axis movement relating to motor control box #4 (X-AXIS)

Possible cause #1: Loose/intermittent wiring: joystick > action button board > Lynx motor ctrl box # 4 (x-axis)
Check all wiring particularly going to top of motor box # 4.

Possible cause #2: Lynx motor control box issue. Check motor box # 4 cooling fan operation (might lead to overheating box), check green indicator light; try re-programming the box for x-axis and check; try replacing motor box.

1) Remove XL top cover and check wiring to Lynx motor control box # 4 (x-axis)

- a. Remove 6 screws front, middle, rear on side tracks
- b. Remove top plate (use caution as the top plate is HEAVY)
- c. In the rear chassis, locate motor control EMI enclosure. Remove 8 screws for the cover to access.



Lynx motor control box # 4 is for X-axis (side-to-side) movement.

- d. Check for green light on motor box. There can still be box problem with green light but if the light is not there or amber there may be likely issue with box or power going to box (L4POW/L4ST connector)
 - e. Check ALL connectors to box # 4 for loose wires going into the connectors. Be sure to check each individual wire. In particular, L4AIO is the joystick input. There are 3 wires coming from the joystick: black, green, red.
 - f. Try reseating all connectors into motor box # 4.
 - g. Each motor box has a cooling fan facing to outside; make sure box # 4 fan is running.
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OPTIONAL: Check box # 4 cooling fan operation; may need angled instrument to check. Cooling fan located on box front face

Lynx motor ctrl box #4: controls X-axis movement; check 3 wires into connectorL4AIO

Check all other connections to top of box

LED indicator for Lynx motor ctrl box #4:
'NORMAL' is GREEN LIGHT
RED light is definitive for bad box
GREEN light is inconclusive; could still be bad box if symptoms persist

Rear of the machine

