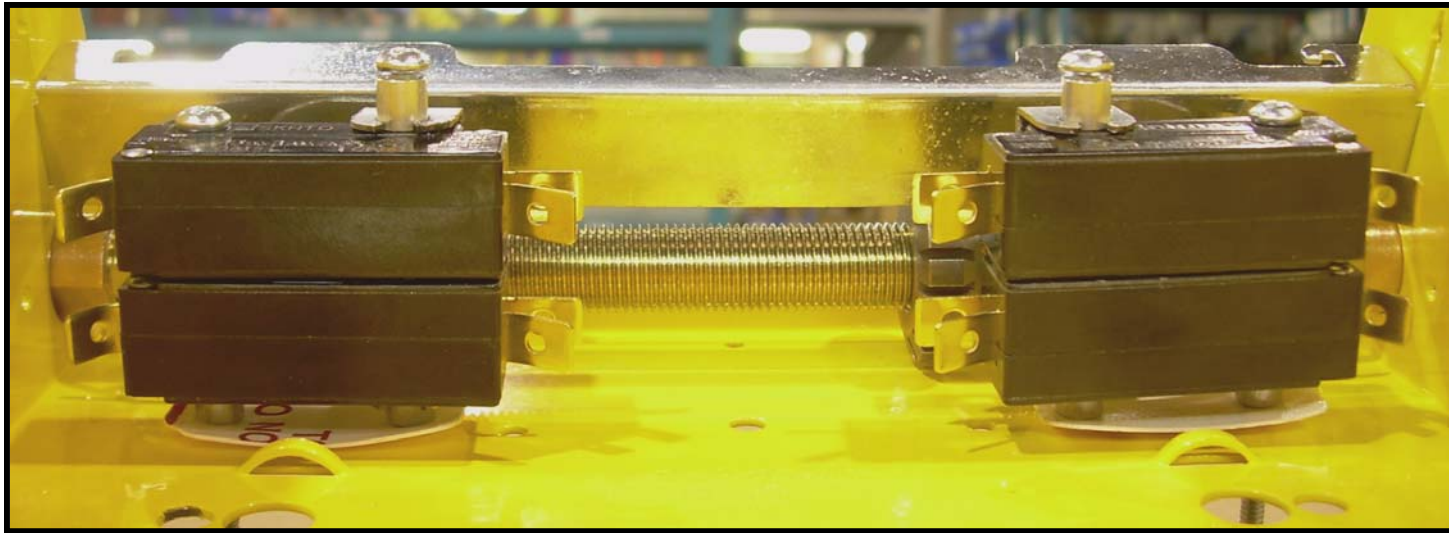


Installation & Instructions Manual



Field modification of limit system
(Operator built with hardwired circuit, Opera series)

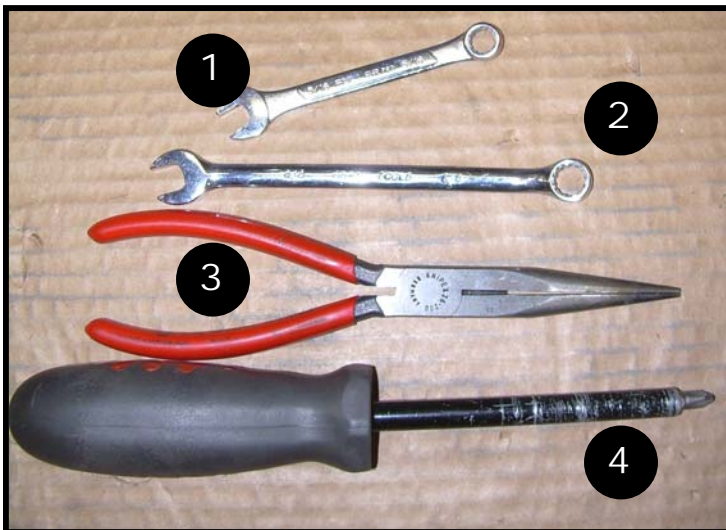


IMPORTANT

Before starting any intervention, please check if you have the right tools and all the parts needed.



Qty	Parts no.	Descriptions
2	Pre-assembled limit system	Open & Close limit switches with actuator



REQUIRED TOOLS (for modification)		
No.	Qty	Tools description
1	1	5/16 wrench (combined fork + eye)
2	1	3/8 wrench (combined fork + eye)
3	1	Long nose pliers
4	1	Phillips No2 screw driver

Step 1: Remove the existing limit system from the control box

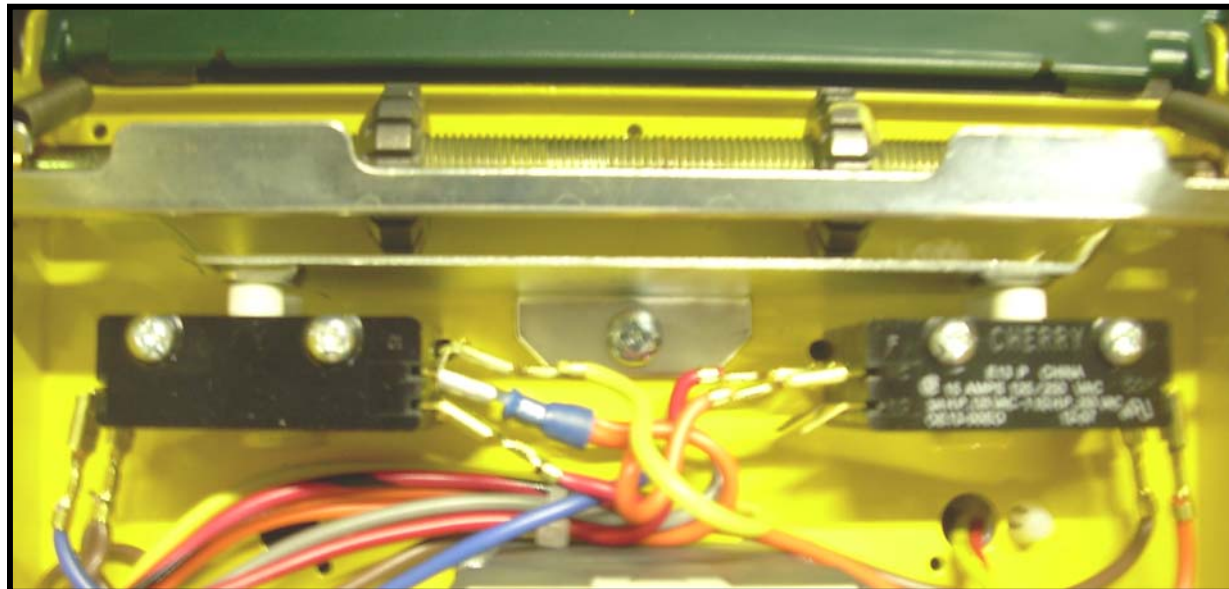


WARNING

Before starting any intervention, please shut OFF the main power from the operator or the control

1. Open the control box cover.
2. Disconnect the wires from « Advance Open & Advance Closed and Open & Close » limit switches *(if required mark the wires before disconnecting them)* .
3. Unscrew the centre holding nut and take-out the LEVER070 *(use Philipps screw driver and 3/8 wrench)*
4. Use the Philipps screwdriver and 5/16 wrench to take-out the « Open & Close » limit switches.

NOTE: The removed parts will no longer be required.



Shown existing limit system in an Opera series control box.

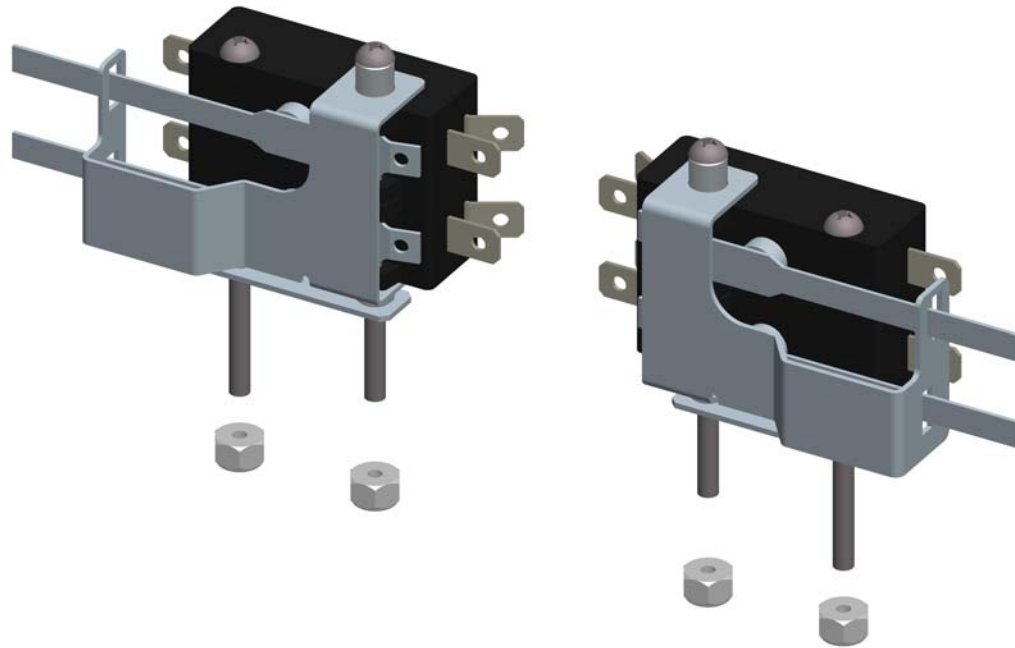
Step 2: Installing the new limit system in the control box

Location of the limit switches mounting holes in the control box

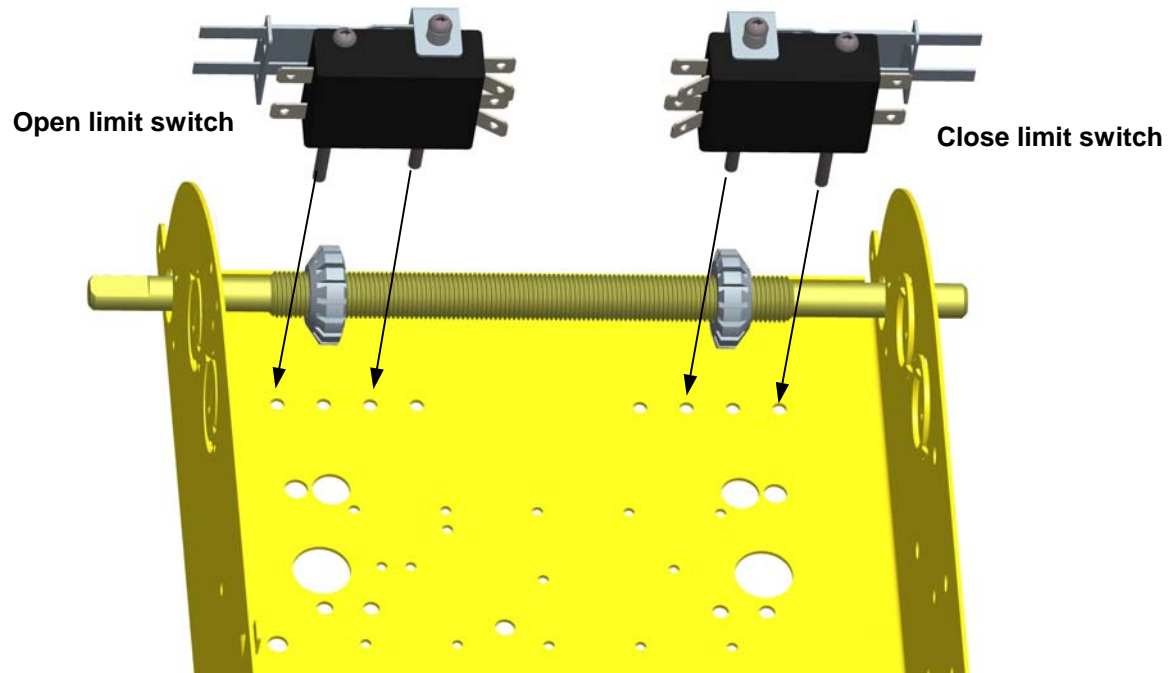


Opera series control box shown

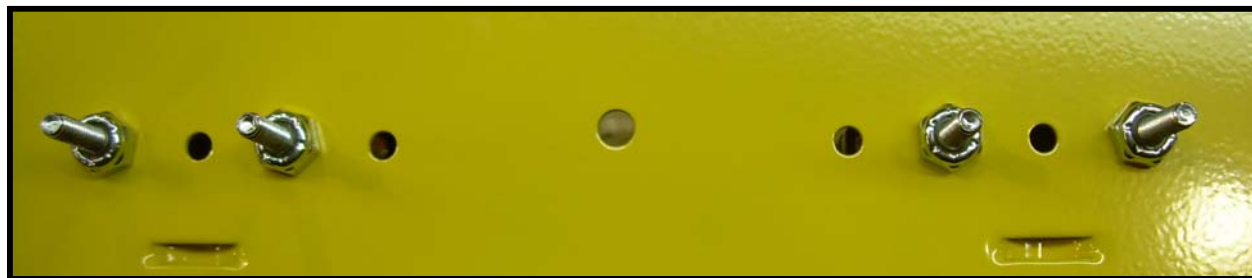
Pre-assembly of limit switches (Limit switches + screws + spacers + actuators)



Step 3: Mounting of new limit system in the control box



Mount the preassembled limit switches to their respective mounting holes, use the screwdriver and 3/16 wrench to tighten the new limit system to the control box

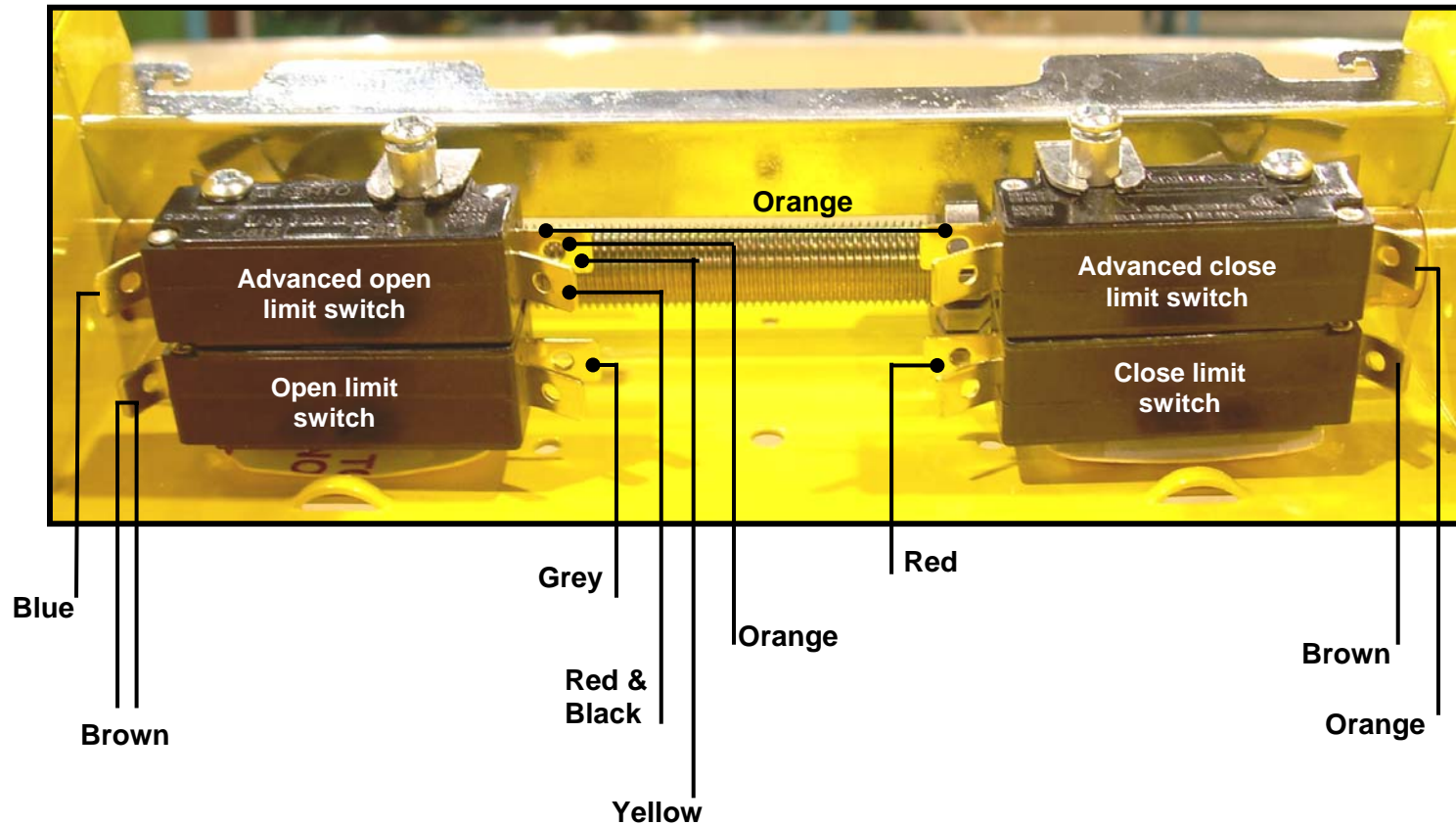


Back face of the control box

Step 4:

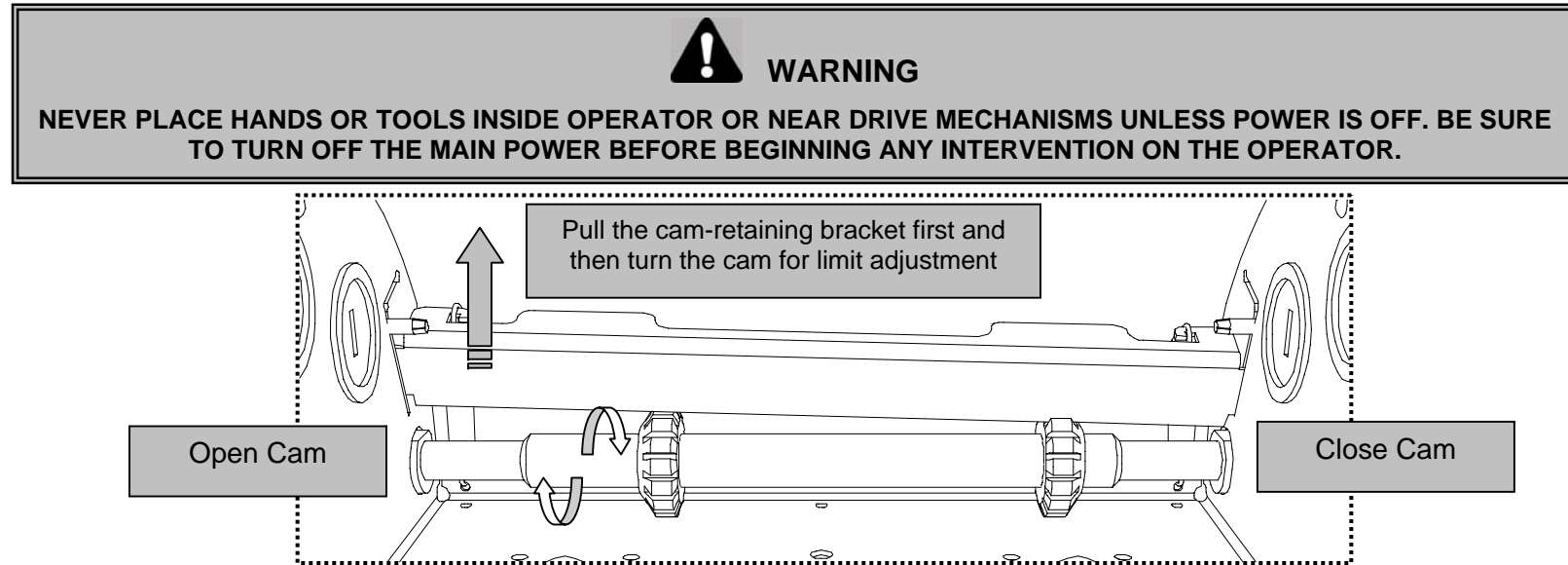
1. Reconnecting of wires and limit switches adjustment.

New limit system



2. Limit switches adjustment.

Note: This unit is provided with ACCU-CAM[®] for precise and quick one-handed adjustment feature.



Note: Turning the cam towards the center on the limit shaft increases door travel.
Turning the cam towards the limit switch decreases door travel.

- Open limit switch adjustment:
 1. Manually raise the door to a nearly opened position or desired open position.
 2. Pull the cams-retaining bracket from the Open side and rotate manually the Open cam until the cam activates the Open limit switch sufficiently so as to hear the two "CLICKS" on the switches.
 3. Release cam-retaining bracket and make sure that the bracket engages in the slots of both cams.
- Close limit switch adjustment:
 4. Manually lower the door to the Close position.
 5. Pull the cams-retaining bracket from the Close side and rotate manually the Close cam until the cam activates the Close limit switch sufficiently so as to hear two "CLICKS" on the switches.
- Testing door electrically:
 6. Upon completion of all wiring connections, use the wall push buttons to run the door electrically and check if it is stopping properly to fully open and fully close positions.
- Fine adjustment:

If door is opening or closing properly or if there is a gap between the door and floor, re-adjust the close limit switch.

Note: One (1) on cam is equal to about ½" on the door travel.

For close position:

Adjust one notch at a time until the close limit switch is properly adjusted and the door stops smoothly on closed position.



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