

## CONTROLLER UPGRADE



### Components

- 1 x controller module
- 1 x internal wiring loom
- 2 x superseal connectors with pins and grommets
- 1 x cutting template
- 4 x m4 bolts & nuts
- cable ties

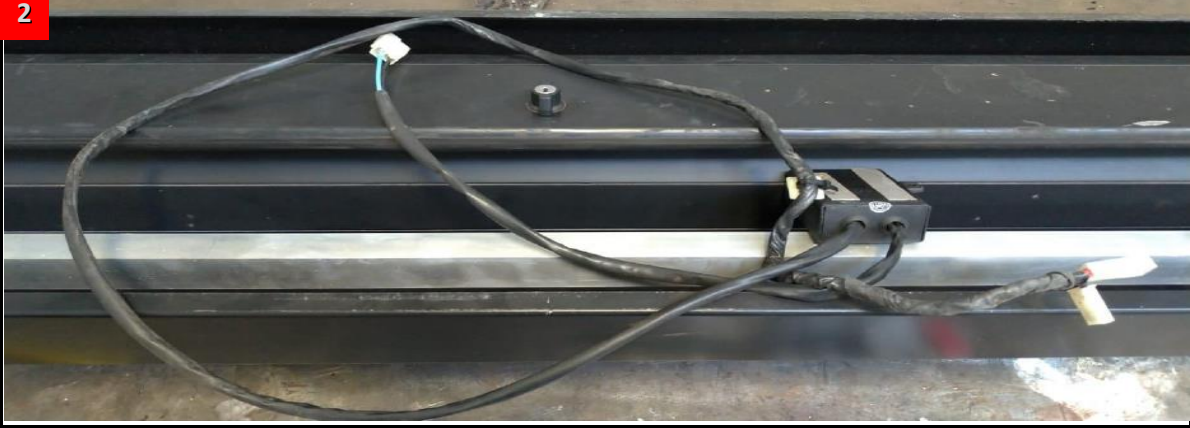
### Tools required

- Ratchet Driver
- Hex5 bit
- Hex 4 bit
- 8mm spanner
- Grinder or air-hacksaw
- Die grinder or file
- Drill & Drill bits (3mm, 4.5mm, 10mm)
- Sidecutter, wirestripper and crimping tool
- Permanent marker

### Process

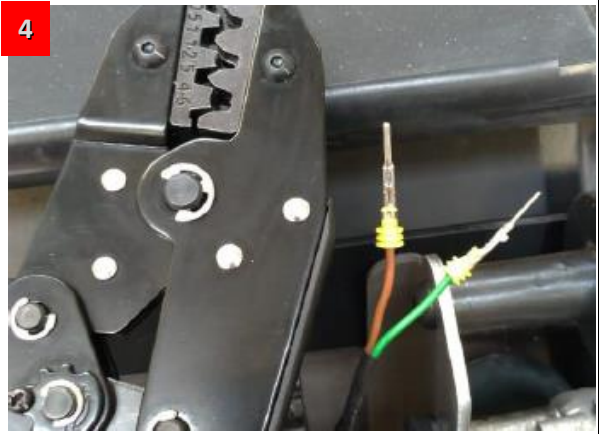
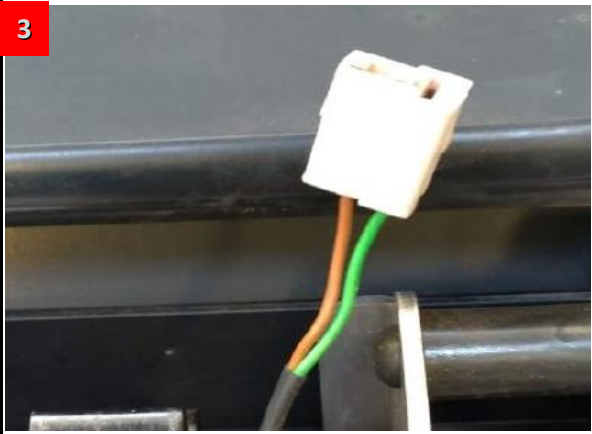
**1** Remove cartridge from box

Cut cable ties, disconnect connectors and remove old control unit



Locate the connector on the motor and cut the wires as close as possible to the connector

Thread the wires through the grommets, strip 4mm off wire tips and crimp the pins to the wires.

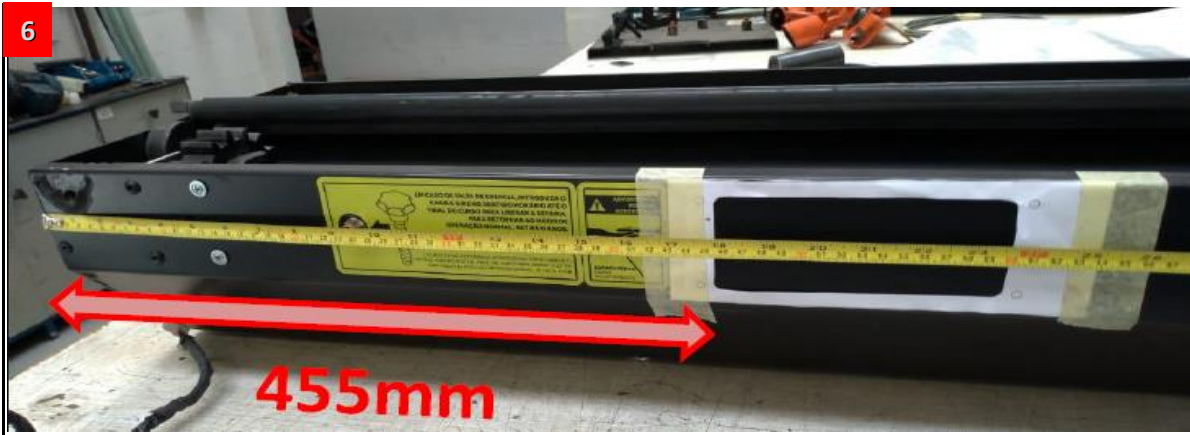


Note the numbers on the connectors and insert the pins accordingly (1-brown wire, 2-green wire)



**1 - Brown**  
**2 - Green**

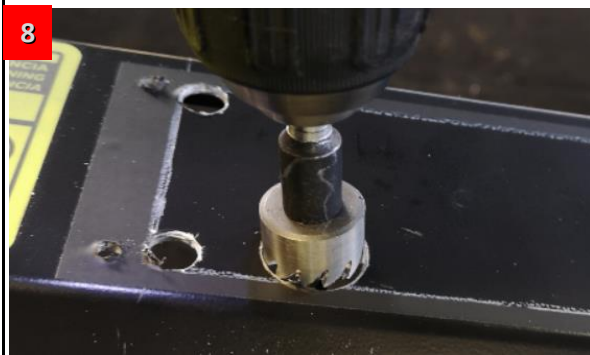
Measure 455mm from left hand edge of the cartridge. Align the LHS inner edge of the template sticker to this mark. Align the template sticker horizontally on the top edge of the cartridge. Mark the inner edge of the template onto the cartridge using permanent marker, marking pencil or scribe.



Drill 2.5mm pilot holes on the all 8 template markings. Drill the inner holes to 10mm.



Use a +/-20mm holesaw to cut a hole large enough for the air-hacksaw blade to fit through. Cut out the inner block as per template.



Smooth out the edges with a die grinder and/or file.



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Slide the controller into the slot and affix using supplied nuts/bolts. Plug internal wiring loom into controller



Route the motor-side wire to motor and connect to motor connector. Secure with cable ties.



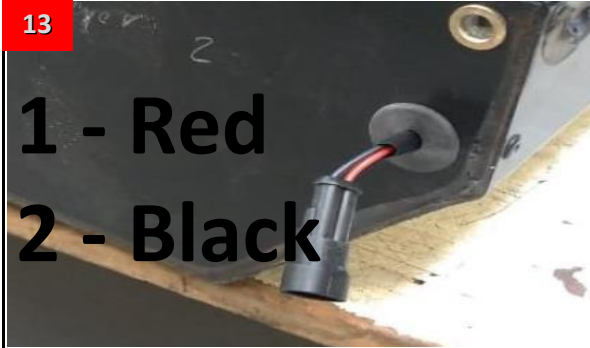
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Thread the supply side wire of the internal loom through the grommet and insert the pins into the connector. Note: red wire to 1, black wire to 2.

Cut the original connector from the vehicle-side loom. Thread the wires through the grommets, strip 4mm off wire tips and crimp the pins to the wires. Insert the pins into the connector. Red wire to 1, black wire to 2



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1 - Red  
2 - Black



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Connect the controller side connector to a power supply. Press both buttons on the controller for about 5 seconds until the light starts blinking.

Press the close button on the first remote and hold for 2 seconds. Repeat for any additional remotes (up to 5 in total). Once done, press CLOSE button on the control module (the top button). Test both buttons on all remotes.



**17** Disconnect test power source and repack cartridge and programmed remotes into box. Mark the box clearly with "NEW CONTROLLER INSTALLED & REMOTES PROGRAMMED"



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