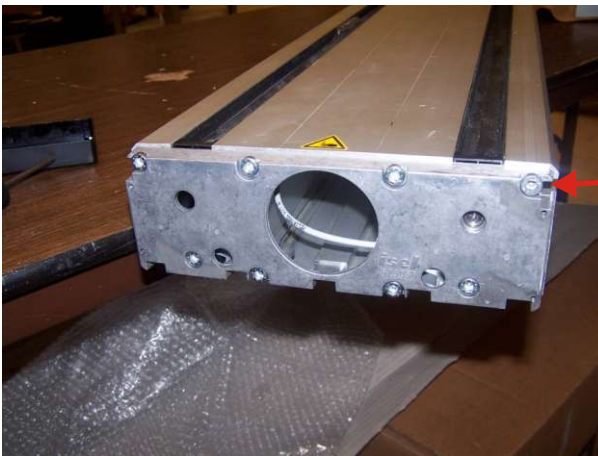




TOOLS: Hammer, M4, M5 Allen keys; wire-cutter, utility knife, Phillips Head Screwdriver, Large flat screwdriver, Blokb of wood



Remove the screws that hold on the cover from the non-motor end of the X-axis



Remove the cap screws that hold the end-casting





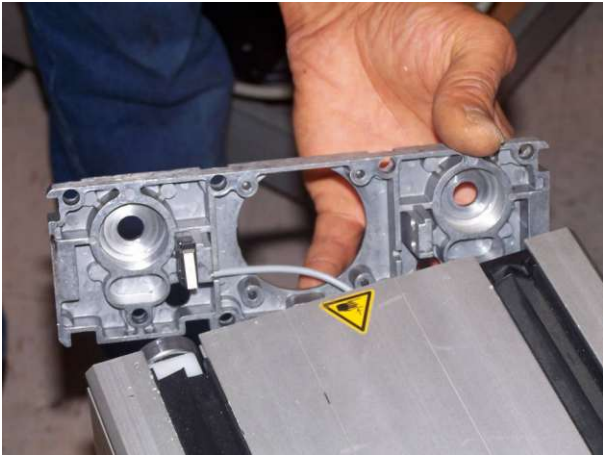
Slide the little plastic endpiece back to prepare to remove the end-casting



Use the wooden block (preferably not to scratch anything) or the screwdriver to remove the end-casting.

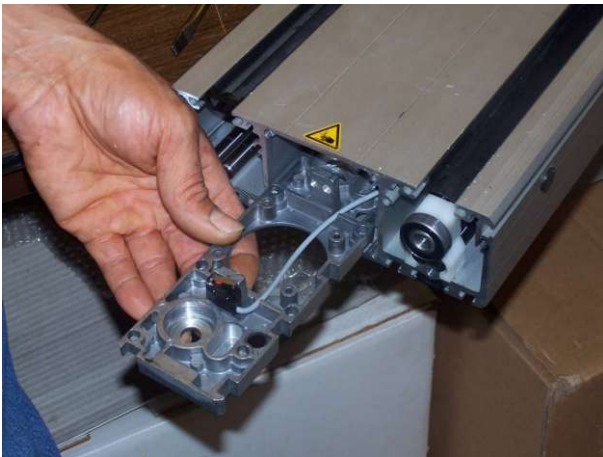
NOTE: There is a bearing pressed into this casting so the casting has to be gently forced back evenly. This might take a couple of minutes.

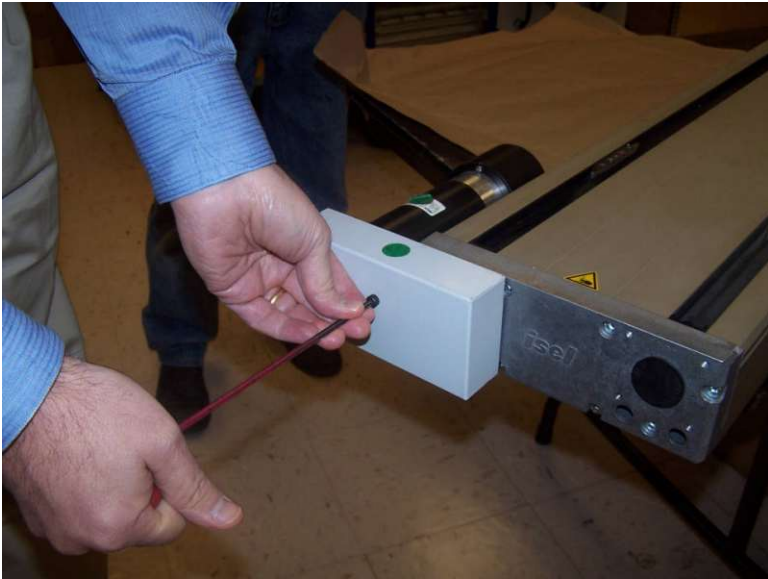




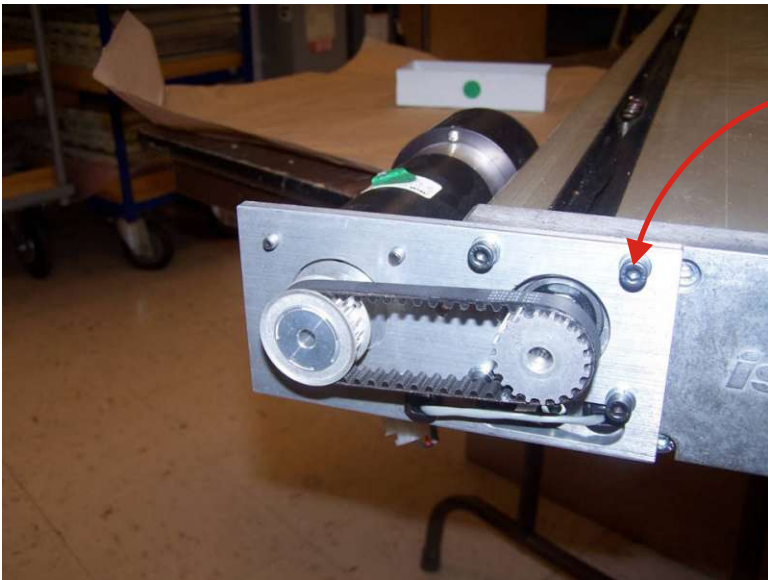
Once the castings is freed, the limit switch can be seen on the casting. If it is functioning properly then the limit switch on the motor end is faulty and the other X-axis end-casting will have to be removed.

See further pictorial instructions ...

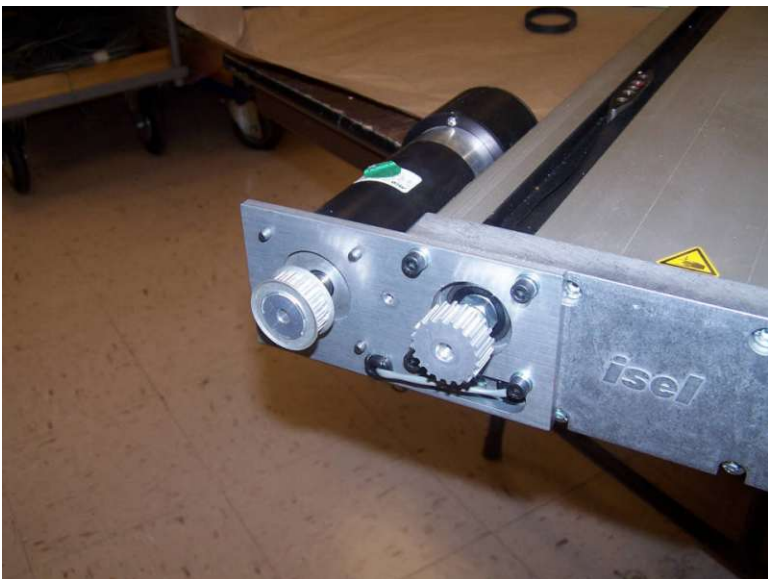




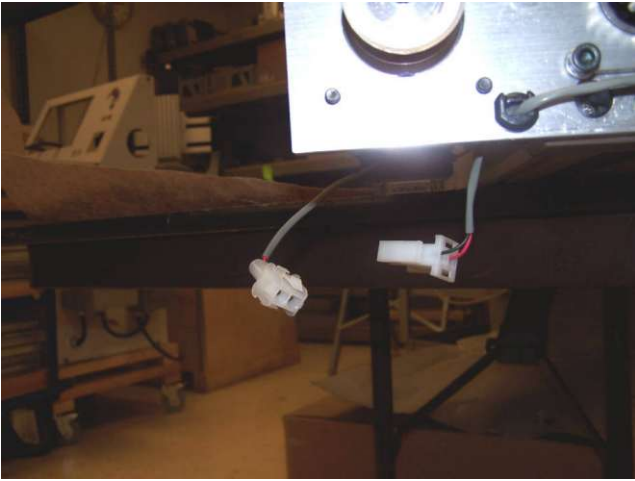
Remove the motor cover,



Then loosen (but DO NOT REMOVE) the four screws holding the motor plate



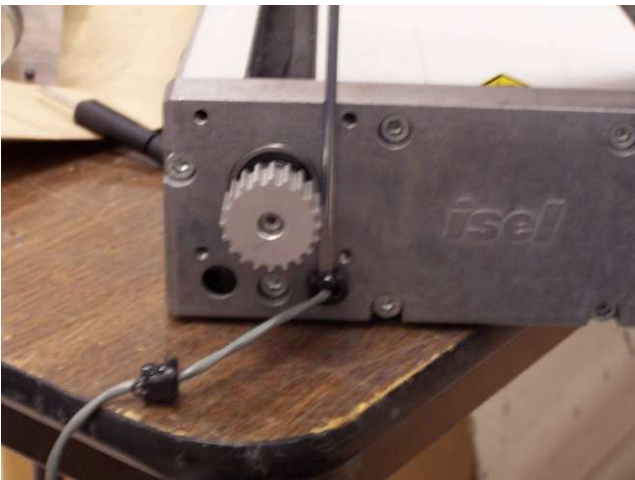
then slide the belt off.



Disconnect the limit switch cable from the motor assembly



Pry off the cable grommets. These can be opened up and removed. And then finish removing the four screws that hold on the motor plate.

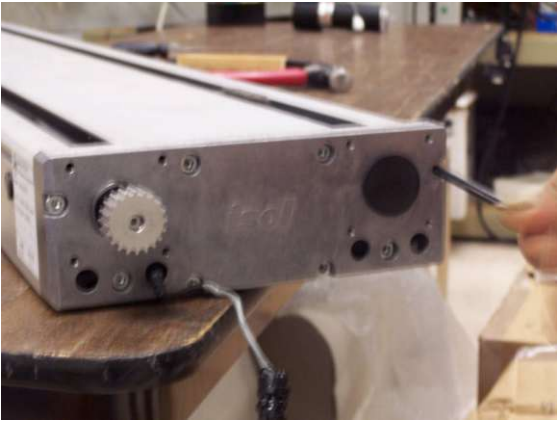


Remove the grommet from the cable as it enters the slide.

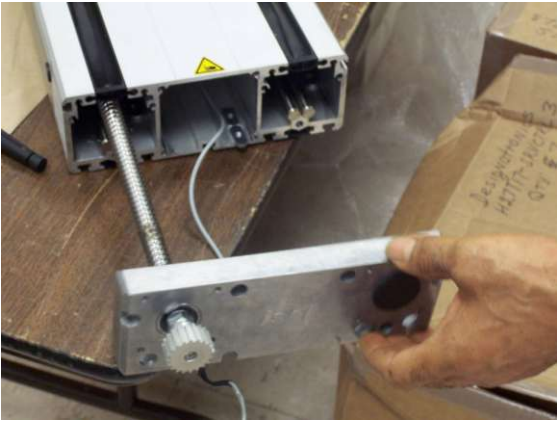


Pull the cable out until you get to the point where the cable is covered with electrical tape.

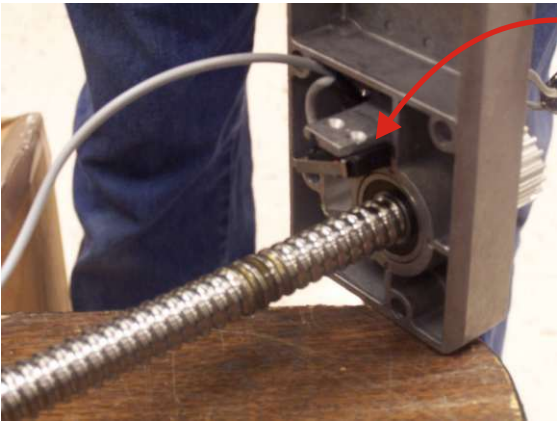
YOU WILL HAVE TO CUT THE WIRE TO REMOVE THE LIMIT SWITCH CONNECTOR. IT IS SUGGESTED THAT YOU CUT IT AT THE SPLICE. YOU CAN THEN RE-SPLICE THE CONNECTOR AFTER THE LIMIT SWITCH IS REPLACED.



Remove the screws holding on the casting.

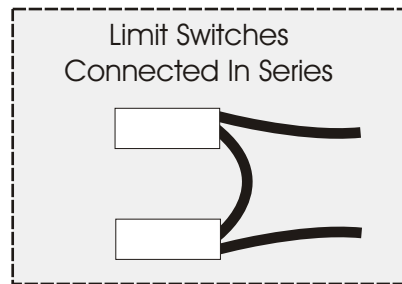


By pushing the ball screw from the opposite end of the slide (non-motor end) the casting can be removed as a complete assembly.



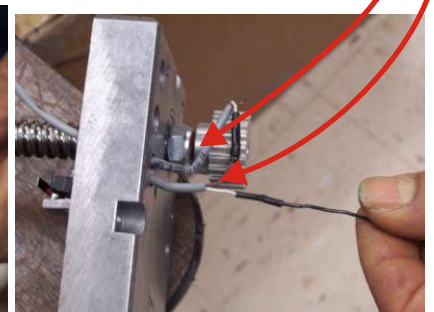
The limit switch is attached to the casting on the inside.

By removing the electrical tape, you can see how the two limit switches are wired in series



Cable from Limit Switch 1

Cable from Limit Switch 2

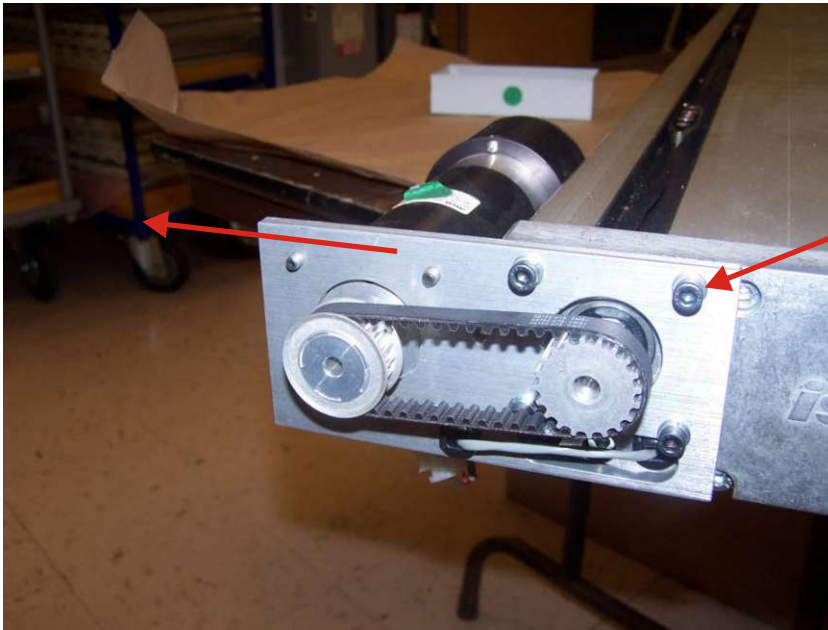


REASSEMBLING THE SLIDE

STEP 1: Reassemble the motor end, including the motor and belt.

STEP 2: Slide the Z-Axis along the X-Axis to the motor end **MAKING SURE** not to push it so far that the bearings fall off the rails

STEP 3: Reassemble the motor end of the slide. (Casting, motor mounting plate). Loosen the screws holding the motor mounting plate onto the slide then slide the belt on **THEN TIGHTEN THE BELT BY PULLING THE MOTOR MOUNTING PLATE TOWARDS THE MOTOR AND THEN TIGHTEN THE SCREWS HOLDING THE MOTOR MOUNTING PLATE.**



Pull as shown
and then tighten
the screws

STEP 4: Reassemble the casting on the non-motor end, but **DO NOT** tighten the screws that fasten on the casting.

STEP 5: Connect the motor cables and jog the Z-Axis along the X-axis to the end of the X-Axis away from the motor.

STEP 6: Now tighten-up the screws holding on the casting on the non-motor end.