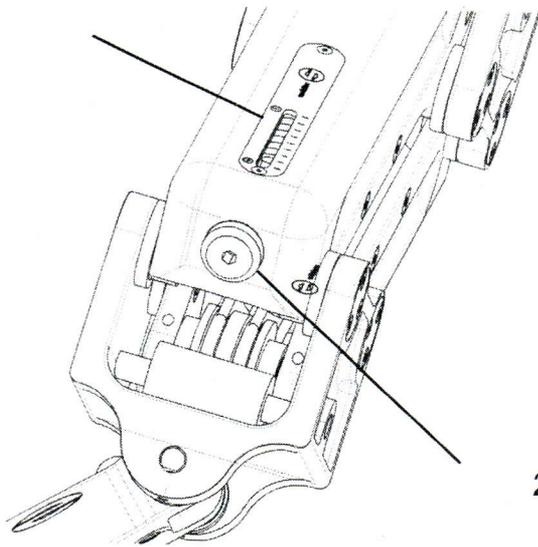




Changing the spring set



Step 1:

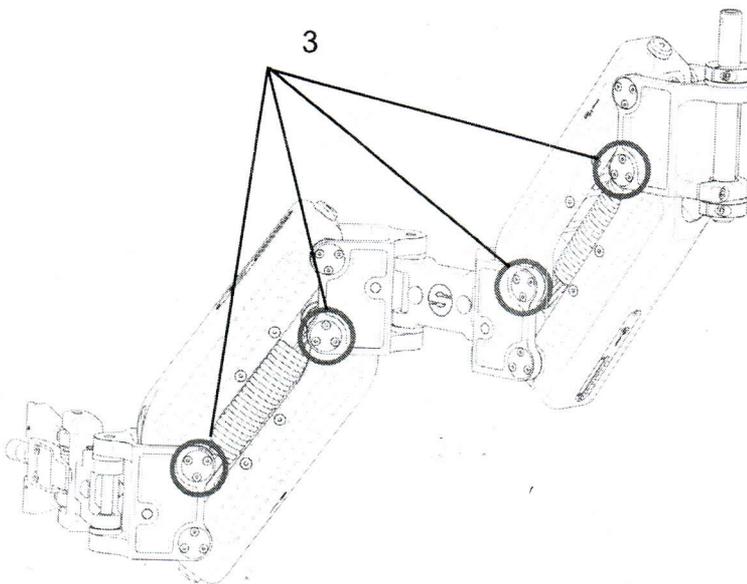
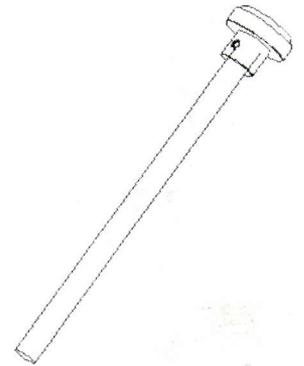
Unscrew the two screws of the the access cover where the scales are printet on.
Take than off all 4 covers of the arm.

Step 2:

Take the 4mm Allen wrench and loose all 4 tension screws of the 2 spring sets in the 2 arm segments.

Wind the tension screws untill they are coming out the spings and pull the out of the arm.

- 2 Make sure that the arm (spring sets) are fully un-wound before you do the next steps



Use a little box to store the outcoming parts like screws, washers and bearings.

Step 3:

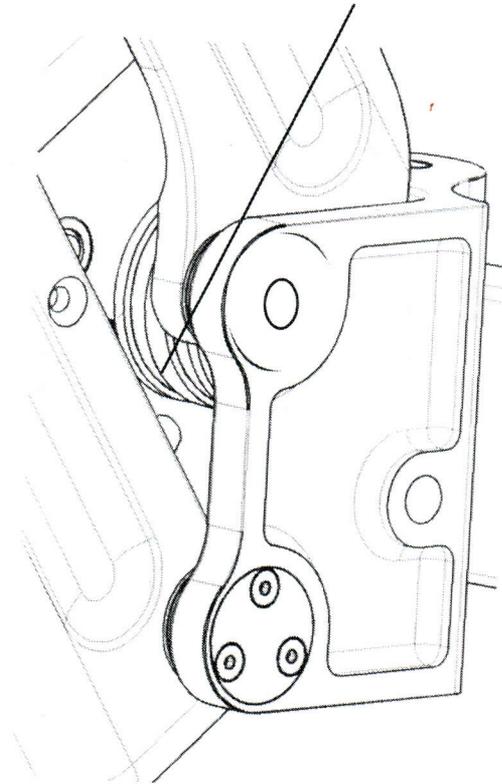
Use a TORX wrench to open the 3 screws holding the highlighted arm bolts on both sides of the arm segments.

The little Torx screws are clued in, use a hot hair dryer to make them unstucked.



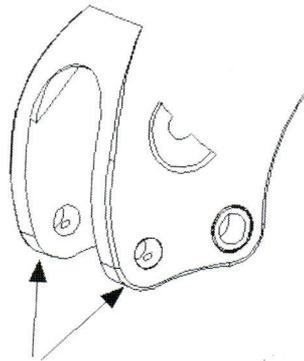
Changing the spring set

Return sheave (castor)



Step 4:

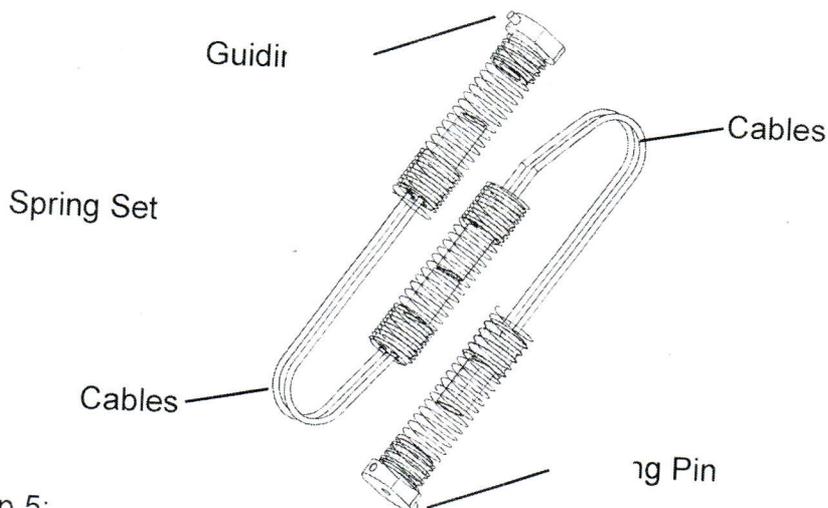
Dislocate the return sheave, to let the spring pass



Pull the arm down, till you can reach the 2 little screws holding the axle of the return sheave. Unscrew them till the axle is free. Now pull the axle out of the arm, and move the return sheave and move it in the arm so that the spring can pass. Do this with all 4 return sheaves. Now you can pull out the complete spring set out of the arm.

If the return sheave is coming out of the arm and falling apart, don't worry. The order of parts is like this:

metal washer - bearing - metal washer - castor (roll) - metal washer - bearing - metal washer.



Step 5:

Now threading in the new spring set in the arm. It is just reversed action as pulling out the spring set.

Make sure that the cables of the spring set are right (parallel) on the castor (roll) and they are not twisted.

Check this before you go on!!!!



Changing the spring set

Step 6:

Bring the return sheave back in it's old position, push the axle back in and tighten the 2 little screws again.

Step 7:

Placing back the 8 bolts and bearings in the arm.

Prepare the 8 bearing packages first.

The order of parts is this:

Metal washer - bearing - metal washer and put this the black plastic drum.

Bring the bearing packages in the right position and push in the steel bolt, use only one Torx screw to fix the parts, do not tighten them.

After all bearing packages and bolts are back at the old position screw in all Torx screws and tighten them all with the same strength.

Step 8:

Bring in the tension screws again and make sure that the guiding pins are facing up and that they are in the guiding slit.

Try to catch the thread at the end of the spring set and screw it in 3 rounds.

Do this with all 4 tension screws the same way.

Step 9:

Check again that before you go on.

1. That the cables of the spring sets are parallel and not twisted.
2. That the guiding pins are right in the guiding slit.
3. That all steel bolts are tightened again

Step 10:

Now tighten the spring sets so far till the scale cover will fit back in its old position.

Before you put full power on the arm, please make a little test.

Put the arm in the vest and move it slowly up and down to see if it works properly.

If everything is ok, you can bring the arm up to its full capacity.