

Instruction: Safety wire counterweight retrofit instruction
No.: I-649
Impl.: 2015-12-03 Ver./date/sign.: 00 / 2015-12-03/CBL
Prep.: CBL Appr.: AV



Purpose: To guide authorized lift installation and maintenance competent people in how to change the BSO safety wire spring in the basement to the counterweight solution.

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Tools: Assorted manual hand tools, short step ladders.

Measurement equipment: None.

Validity: This instruction is applicable for changing the pushing spring used to tighten the BSO safety wire by two 11kg counterweight. The job may only be performed by trained persons and always with respect of all the pertinent safety regulations.

Cautions: Be aware that this instruction is only explaining the steps in how to execute the disassembly/assembly operations; it doesn't guide any safety precautions and the necessary use of safety equipment. Therefore Avanti strongly recommend you to read and understand what the physic work steps in the instruction are, and then execute your own Risk and Hazard Assessment according to the valid safety working procedures in your own organisation before commencing the work.

It can be needed to lock out high voltage in the construction, for reaching certain areas during installation. Lock out high voltage shall be performed by the site controller!

If leaving a non-operational installation during or after the installation period – Make sure to “Lock Out” the unit before leaving!

1.0 Preparation:

Ensure all relevant certificates and permits are valid and completed prior to commencing work.

Verify that all necessary tools are available.

2.0 Sequence of operations:

1. Ground the lift at bottom platform standing on its four feet by means of the override switch.
2. If necessary, arrange the turbine to be shot down by authorized personnel.
3. Go to the basement and uncoil the safety wire rope excess.
4. Remove tension on the safety wire Ø 8 mm by compressing the push spring using cable ties (at least 3).

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5. Remove the two wire locks that hold the spring and take it out.
6. Before mounting the counterweights to the safety wire perform a “hand test” according to the Avanti instruction.
7. To tighten the safety wire, move the Service Lift up about 50 cm from the floor. Then manually activate the fall arrest device. Move the service lift down using the manual descent lever until the service lift stops, hanging from the safety wire.
8. Feed the counterweights in the safety wire and hold them by two wire locks. Make sure there is at least 20cm of free space to the bottom platform floor.



9. Coil the wire ropes excess using plastic strips (at least 3).
10. Unblock the fall arrest device (BSO) and place the lift on ground floor.

3.0 Final assessment:

1. Make sure the traction wire is able to move up and down and rotate free during lift operation.
2. From the first platform or using a step-ladder perform the over speed “hand test” again.
3. If satisfied that the lift is in good operational condition complete relevant documents.
4. Store all the tools and materials and clean the working area.
5. Switch power off.
6. Report completion of work to site manager/supervisor.

Any doubts regarding above instruction, please do not hesitate to contact Avanti’s local representative for help – www.avanti-online.com