



ABACO MACHINES USA
MATERIAL HANDLING SOLUTIONS

SERVICE BULLETIN

Updated: March 2020

ALG Little Giant Lifter Maintenance Checklist

ISSUE: Long Term Lifter Performance

WORKAROUND: Regular Maintenance

This maintenance check list is created for all **ABACO MACHINES USA ALG Series** “Little Giant Series” lifters. **ABACO MACHINES USA** is not responsible for any misuse or damage caused from misuse of any lifter or injury due to mishandling the lifter or using the lifter past the work load limit. It is important to establish a regular procedure for clamp & shackle inspection. Frequency of inspection will depend upon the amount of use the clamp receives. This Maintenance Checklist covers:

- Swivel Shackle
- Manual Locking Latch
- Automatic Locking Latch
- Top & Bottom Extension Springs
- Center Plate & Back Plate Rubber
- Final Steps
- Important Safety Tips

For technical questions or to have your lifter inspected by our technical team please contact our US support team via email Support@abacomachines.com or visit our website www.Abacomachines.com for more information.

SWIVEL SHACKLE

The SHACKLE is separate from the lifter and is considered a wear item and must be inspected after every use. This is not part of any WARRANTY, unless DEFECTIVE. If found to be defective, the SHACKLE and LIFTER need to be returned to the supplier for inspection and evaluation.

Lubricate the rotating pin that separates the top and bottom of the shackle located in the center of the swivel shackle using the 85w-140 machine oil lubricant provided.



MANUAL LOCKING LATCH

Pull back red locking latch so that it springs back to you. Inspect the lip of the locking latch making sure it is not sharp or thin, the thinning is a sign it needs to be replaced. Abaco does offer an ALG Maintenance Kit that includes replacement latch, extension springs & rubber.



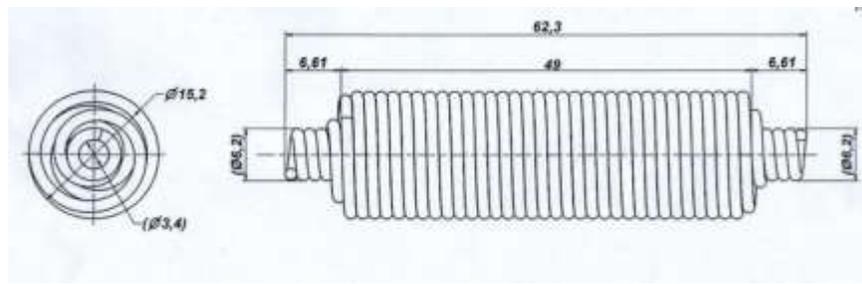
AUTOMATIC LOCKING LATCH



Remove Red cover on top of locking latch, inspect the automatic locking latch for any debris. If no debris place cover back on to automatic locking. If debris is visible use compressed air to clear it out, once debris is removed place swivel shackle lubricant 85w-140 machine oil on top side of automatic locking latch where cover was removed. Test automatic locking latch by pressing down on the “T” part of the auto locking latch. “T” should be turning smoothly, without any misfiring. Once the auto locking latch has been tested and lubricated, place RED cover back on top of locking latch and secure.

Link to 2 minute how-to video - click: <https://vimeo.com/370531354>

TOP and BOTTOM EXTENSION SPRINGS



Pull red locking latch and pull lifting pin up, exposing the two top springs behind the center plate. Make sure these springs aren't uncoiled or stretched.

Repeat this process for the bottom extension springs set as well.

When replacing these springs the securing screw should be **secured in the center of the spring**. Incorrect securing the screw in the correct way may cause springs to wear out sooner than normal. **If springs are stretched DO NOT USE LIFTER**. Tag the machine for Temporary NON USE, due to maintenance. Contact your authorized Abaco Machines USA distributor, purchase a maintenance kit for your lifter that includes the necessary parts to get your lifter in safe working condition. **Failing to attend to spring stretching or uncoiling can cause serious bodily injury or death to any person in the immediate area of the lifter.**

CENTER PLATE & BACK PLATE RUBBER LINING

Check the Center Plate and Back Plate for wear, test rubber for wear with a NICKEL COIN



Place a **NICKEL** head first into several tread grooves across the **rubber plate**. **If you** always see the top of Jefferson's head, **your** rubber is too shallow and worn. **If this is the case, REPLACE EITHER CENTER PLATE OR BACK PLATE** or both. **If** part of Jefferson's head is always covered by the Rubber wall of the plate you are inspecting, **you** have enough rubber depth remaining.

FINAL STEPS

Once you have completed all of these steps please reattach your lifter to swivel shackle and test lifter without a slab in the air at about 2 ft high.

Pull locking latch and the lifting pin will engage the center plate forward as if it were clamping on to the slab. A final secondary visual check of the lifter from a supervisor or coworker with equal knowledge of machine to clear off on anything that have might not been replaced or missed.

IMPORTANT SAFETY TIPS

- 1) Check Extension Springs every week
- 2) Check Lifter every week
- 3) Always stand clear of lifter when a slab is being moved - “stand clear of the fall shadow of the slab.”
- 4) Follow NSI Guidelines and **only lift one slab at a time**
- 5) For multiple slab lifting, always use bundle securing bars properly installed.

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