



## Liftomatic Material Handling, Inc.

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# OPERATING & MAINTENANCE INSTRUCTIONS FOR THE LIFTOMATIC MODEL **DCMJ** DRUM HANDLING ATTACHMENT

## Operating Instructions

To operate the Liftomatic DCMJ unit, simply slide the forks of the lift-truck into the fork pockets of the DCMJ attachment. (If the operator is using carriage mounted units, remove the forks of the lift-truck, and slide the CM-DCMJ units into place on the carriage). For all fork mounted units, the safety chain should be attached to the lift-truck prior to using the attachment(s). If units are equipped with Liftomatic's exclusive Quick-Claw® safety restraint system, slide your forks into the fork pockets and pick the unit off the ground to secure the attachment to the lift-truck.

To operate the DCMJ\*\*, raise the unit slightly off the floor (one or two inches). Center the black clamping heads on the drums to be picked up, tilt the carriage of the lift-truck slightly forward (approximately two to three degrees), and gently make contact between the black clamping heads and the drums. While maintaining contact on the drums with the attachment, raise the carriage of the lift-truck straight up (**DO NOT TILT THE FORKS/CARRIAGE BACK**).

**\*\*NOTE:** The DCMJ is equipped with "fibre drum guards" in order to properly handle all fibre drums. The hair pin clip located on the top of each clamping head must be pulled out, the fibre drum guard moved to the forward position, and the hair pin clip replaced into its proper position. This process **MUST** be repeated each time a fibre drum is to be properly handled. Further, the fibre drum guards must be placed in the "back" position in order to properly handle all steel and plastic drums with top chimes.

As the drums are lifted off the ground (or pallet), the operator (from his/her seat on the lift-truck) should verify that all clamping heads have securely engaged each drum (both clamping heads should be parallel with the top of each drum). If one or both heads are sitting at a severe angle, the drums should be set back down, repositioned, and picked up again. This will provide the operator with a positive, secure clamp on each drum. The drums can then be tilted back for transport.

In order to release the drums, the operator should bring the attachment(s) back to parallel with the ground, and simply reverse the procedures stated above.



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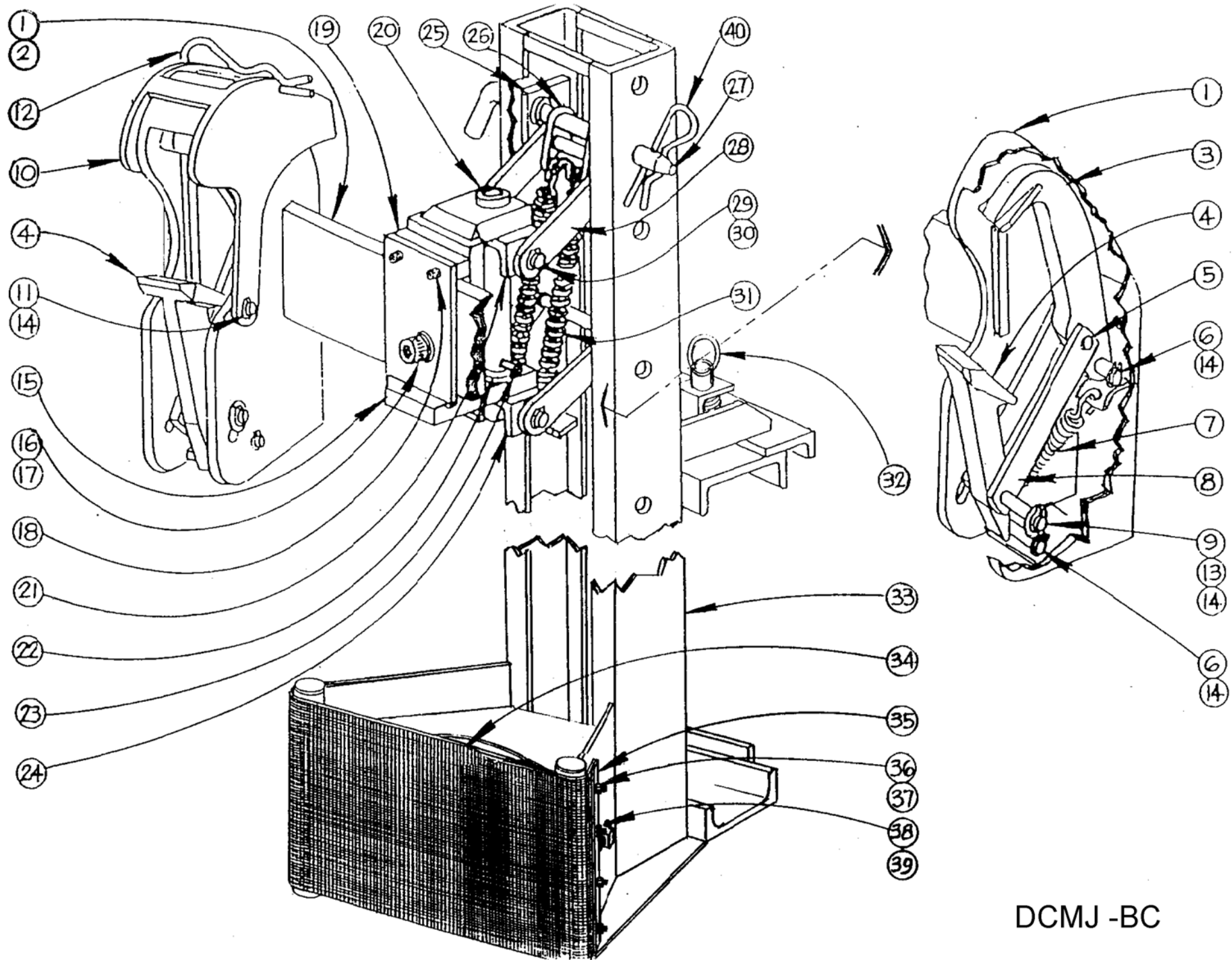
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### Maintenance Instructions

- 1. On a daily basis, each operator should check the Liftomatic DCMJ attachment to verify all fasteners (cotter pins, snap rings, hair pin clips, etc.) are in place. Also, a spot check to be sure the unit does not have any missing or broken parts (pins, springs, fasteners, etc.) should be performed. This can be easily done by spending a minute or two to rotate each head in all directions, as well as pulling and releasing the lower jaw pin (P/N 14016-1) to be sure that all parts move properly and spring back into resting position without difficulty.**
- 2. Liftomatic attachments are completely mechanical, and require LUBRICATION ON A WEEKLY BASIS. Standard WD-40 or a light grade oil are recommended. Spray down the entire head assembly, specifically the jaws, links, and connecting pins inside the housings. Clevises and connecting components (universal body, etc.) should also be lubricated.**

To ensure that inner components do not collect large amounts of dirt, dust, or chemical particles, the clamping heads should be removed at least once a month (more often in heavy dust/dirt environments), and soaked/scrubbed in a non-acidic based cleaning solution. After cleaning, the unit should be thoroughly lubricated per above directions.
- 3. All DCMJ's (which come standard with belt cradles) should be inspected to ensure the belt (pad) is in place and properly tightened. Please note that belts loosen during daily use and should be checked prior to each shift. If belts are torn/tearing, they should be replaced immediately. Broken or badly torn belts provide little or no support for the drum side-wall.**
- 4. On a monthly rotating basis, Liftomatic drum handling attachments should be taken out of service for thorough analysis. This will entail removing the clamping head (Part Number 4004 on enclosed parts list) from the frame, and completely disassembling the head. Each part should be inspected for cracks, breaks, elongating holes (in the links, clevises, etc.), pin and spring wear, as well as missing parts. This process should be performed for each set of clamping heads. Any "questionable" parts (as it relates to their integrity) should be replaced as soon as possible.**

Liftomatic drum handling attachments do require periodic preventative maintenance. The above schedule should be followed as indicated for the equipment to perform at its fullest potential. A preventative maintenance program will allow your Liftomatic drum handling attachment(s) to lead a long and productive life, ensuring high levels of safety and productivity in all of your daily drum handling routines. Please consult your nearest Liftomatic office or representative to establish your preventative maintenance program today. We look forward to your call.



DCMJ -BC



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### **DISASSEMBLY PROCEDURE -- LIFTOMATIC MODEL DCMJ-BC**

- I. To remove the clamping mechanism assembly (Part Number 4007, Figures 1-14) from the universal body (Figure 15):**
  - A. Unfasten two cap screws (Figure 18), and slide out the spacer (Figure 19).
  - B. Unfasten the trunnion screw (Figure 16), and then lift out the clamping assembly from within the universal body (Figure 15).
  
- II. To remove the universal body (Part Number 2106, Figure 15) from the clamping assembly:**
  - A. Unfasten the cotter pins and roll pins (Figure 23) from the universal pin (Figure 20).
  - B. Pull or drive the pin (Figure 20) out of the remaining assembly. This will free the universal body.
  
- III. To remove the upper and lower pivot blocks (Part Number 12005 & 2105, Figure 21 & 24):**
  - A. Follow instructions in step two above, and remove cotter pins from pin (#16004 – Figure 29). Once both #16004 pins are removed, the upper and lower blocks can be removed.
  
- IV. To remove the slides (Part Number 2135, Figure 25), and the clevises (Part Number 2136, Figure 28) from the belt cradle frame:**
  - A. Unfasten the hairpin clip (Figure 40) off the adjustment pin (Figure 27).
  - B. Pull the adjustment pin out and lift the slides/clevises up along the side channel framework until removed from the frame.
  
- V. To take apart the clamping assembly (Part Number 4007, Figure 1-14):**
  - A. Remove cotter pins/snap rings from #14015-1 & 14016-1 pins (figures 6 & 9). Once removed, this gives access to spring (part number 6021 – figure 7). All parts can be analyzed.
  - B. Further, part number 14019-1 (figure 11) can be removed to inspect the fibre drum guard (figure #10).
  
- VI. To remove the belt cradle frame (Part Number 4019, Figure 33) from the fork adapter slide-on-mounting (on adjustable models only):**
  - A. Pull up and hold the roll pin or carriage latch spring “ring” (figure 32), then slide the belt cradle frame to either side of the slide-on-mounting until removed. For models with the #4081 carriage latch system, pull up the ring then turn 90 degrees. Ring will stay open for readjustment.

To assemble the above components/assemblies, utilize the reverse procedure.



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### **POINTERS FOR PROPER MAINTENANCE AND OPERATION OF LIFTOMATIC “Parrot-Beak®” ATTACHMENTS MODEL: 2-DCMJ-SOM**

Similar to any mechanical piece of equipment, Liftomatic drum handling attachments will require periodic maintenance. The following “pointers” should be followed on a regular basis (as indicated) for the equipment to perform at its fullest potential.

\*\* On a daily basis, each operator should check his/her drum-handling device to be sure all fasteners (cotter pins, snap rings, hair pin clips, etc.) are in place. Also, to be sure the unit is not missing any other pins or springs, or if any of the components have broken, a spot check should be done. This can be accomplished by rotating each head in all directions, and depressing the jaws downward to see that all parts move properly and spring back into resting position without difficulty. Framework should also be inspected for visual signs of damage, breaks, etc.

\*\* All DCMJ’s (which do come standard with belt cradles) should be inspected to ensure the belt cushion is in place and properly tightened. Please note that belts will loosen during daily use and should be checked prior to each daily shift. Hardware must remain intact for proper belt tension.

\*\* Liftomatic attachments are completely mechanical, and require LUBRICATION ON A WEEKLY BASIS. Standard WD-40 or any light grade oil is recommended. Simply spray down the entire head assembly, specifically the jaws, links, and connecting pins inside the inner housings. Additional lubrication should be done in high volume or heavy usage areas.

\*\* To ensure that inner components do not get “gunked up” with dirt, dust, chemical particles, etc., the clamping heads should be removed at least once a quarter (more often in heavy dust/dirt environments), and soaked/scrubbed in a non-acidic based cleaning solution. After cleaning, the unit(s) should be thoroughly lubricated.

\*\* On a quarterly rotating basis, Liftomatic drum handling attachments should be taken out of service and thoroughly inspected for part wear/breakage. This will entail removing the clamping mechanisms from the frame, and complete disassembly. Each individual part should be inspected for welding cracks or breaks, missing or broken parts, elongating holes (in the links, inner housings, clevises, etc.), as well as pin and or spring wear. Liftomatic can provide this service should your facilities wish to enroll in our “*Service Plus*™” maintenance program.

Should these items be followed on a regular basis, your Liftomatic drum handling attachments should lead a long and productive lifetime. Please consult your nearest Liftomatic office and account manager for further assistance (PH: 800-837-6540) or email: [edberg@liftomatic.com](mailto:edberg@liftomatic.com).