# SUPPLEMENTARY MANUAL
## Owner's (Operator's) Manual and Safety Instructions

# Manually Lever Operated Chain Hoist Model L5 with Overload Limiter

**KITO**

## Introduction

This manually lever operated chain hoist model L5 with the overload limiter is equipped with a friction clutch. This clutch is designed to protect the hoist against damage by slipping the lever in the event of excessive overload lifting.

## Important Information and Warnings

⚠ **DANGER**

This supplementary manual is intended for use in combination with the "Owner's Operator's) Manual and Safety Instructions, Manually Lever Operated Chain Hoist Model L5". Failure to read and comply with all the contents of these manuals could lead to serious or even fatal injury, and/or property damage.

・Do not disassemble or adjust the overload limiter.
・Do not operate the hoist under an overload.
・Do not continue to lift a load when the overload limiter operates. Lower the load.
・Do not operate the hoist in a manner generating an impact load.
・Do not use the overload limiter regularly.
　Excessive use of the overload limiter may decline the slipping load.
・Do not use the hoist to detect an overload.
・Do not attach oil such as grease to the clutch plate.
・Do not lift an anchored object.
・Do not lower excessively.

Failure to comply with these instructions may result in death or serious injury.

⚠ **CAUTION**

・Do not store the hoist for a long period in the atmosphere including oil mist.
・In the case that an overload via the hook of the hoist attached to the hook of the crane is lifted by the crane, the overload limiter will not operate since this is not lever operation. Use the hoist properly according to the safety instructions.
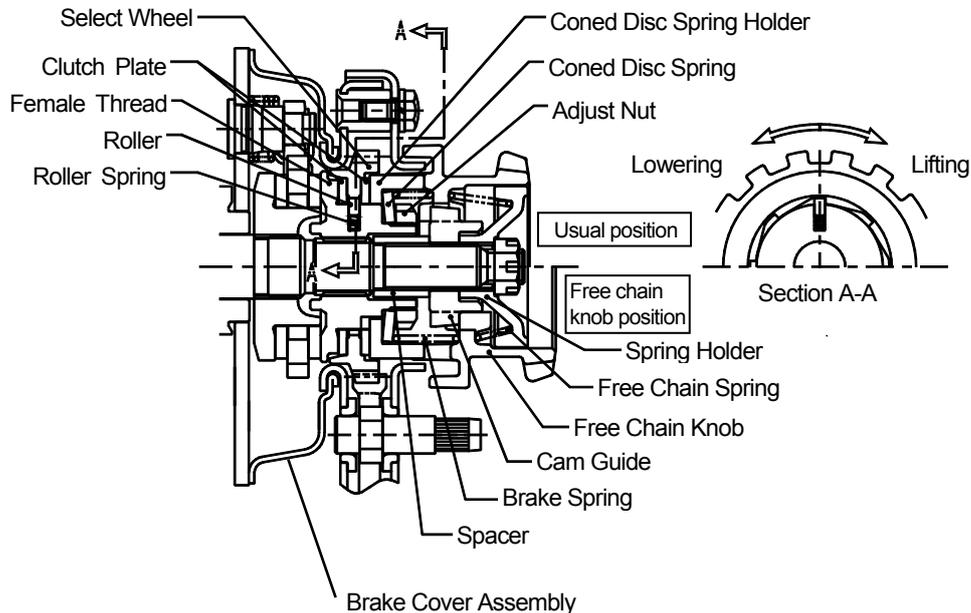
Failure to comply with these instructions may result in the injury or the proper damage.

**Note**

・If the overload limiter is activated with the rated load or less, or needs to be replaced, contact your dealer.

# Structure and Specifications

## ■Structure



Select Wheel — Coned Disc Spring Holder
Clutch Plate — Coned Disc Spring
Female Thread — Adjust Nut
Roller — Lowering / Lifting
Roller Spring — Usual position
Free chain knob position — Section A-A
Spring Holder
Free Chain Spring
Free Chain Knob
Cam Guide
Brake Spring
Spacer
Brake Cover Assembly

## ■Specifications

The manually lever operated chain hoist model L5 with the overload limiter is designed to protect the hoist body and load chain against damage with the friction clutch in the event of excessive overload in lifting operation. The clutch slips the select wheel compressed between the clutch plates by the force of the cone disc spring.

・Applicable model: Manually lever operated chain hoist model L5 (0.8 t to 9 t)
・Visual identification : All the components are the same as the standard except that the free chain knob is black.
・Dimensions : Equivalent to the standard model L5
・Operating condition and environment : Equivalent to the standard model L5
・When the overload limiter operates the maximum force to all the hoists is approximately 2.4 times of the rated load except for LB008 - 3 times.
・Weight (for standard lift)

| Product code | LB008 | LB010 | LB016 | LB025 | LB032 | LB063 | LB090 |
|---|---|---|---|---|---|---|---|
| Net weight (kg) | 6.0 | 6.2 | 8.4 | 11.6 | 15.2 | 26.2 | 40.2 |

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### ⚠DANGER

・Do not disassemble or adjust the female thread assembly (female thread, clutch plate, select wheel, roller, roller spring, spring disc holder, spring disc and adjust nut).
・Do not operate the hoist in free chaining mode under a load. The overload limiter will not work in free chaining mode (while the free chain knob is pulled upwards).

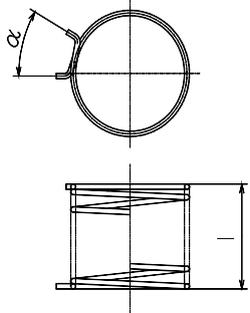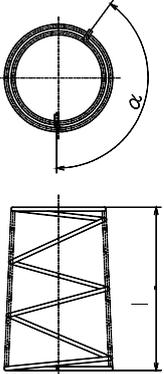Failure to comply with these instructions may result in death or serious injury.

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# Daily and Periodic Inspection

## ■DAILY Inspection

Follow the instructions in Owner's (Operator's) Manual and Safety Instructions for Manually Lever Operated Chain Hoist Model L5.

## ■PERIODIC Inspection

In addition to the items in Owner's (Operator's) Manual for Manually Lever Operated Chain Hoist Model L5, check the following items as well.

| Item | Method | Criteria | Action |
|---|---|---|---|
| Deformation of Brake Spring | Check visually | Length l should be free of compressive deformation.<br>Angle α should not be beyond the limit.<br><br><table><tr><td rowspan="2">Capacity (t)</td><td>Length l (mm)</td><td colspan="2">Angle:α(°)</td></tr><tr><td>Standard</td><td>Standard</td><td>Limit</td></tr><tr><td>0.8, 1</td><td rowspan="3">36</td><td rowspan="3">30</td><td rowspan="3">45</td></tr><tr><td>1.6</td></tr><tr><td>2.5</td></tr><tr><td>3.2, 6.3, 9</td><td>40</td><td>25</td><td>40</td></tr></table> | Replace the Brake Spring. |
| Deformation of Free Chain Spring | Check visually | Length l should not be the limit or below.<br>Angle α should not be beyond the limit.<br><br><table><tr><td rowspan="2">Capacity (t)</td><td colspan="2">Length l (mm)</td><td colspan="2">Angle:α(°)</td></tr><tr><td>Standard</td><td>Limit</td><td>Standard</td><td>Limit</td></tr><tr><td>0.8, 1</td><td rowspan="3">67</td><td rowspan="3">60</td><td rowspan="3">145</td><td rowspan="3">160</td></tr><tr><td>1.6</td></tr><tr><td>2.5</td></tr><tr><td>3.2, 6.3, 9</td><td>75</td><td>68</td><td>110</td><td>125</td></tr></table> | Replace the Free Chain Spring. |
| Spacer | Check visually | No excessive deformation, damage or wear. | Replace the spacer. |

# Troubleshooting

In addition to the items in Owner's (Operator's) Manual for Manually Lever Operated Chain Hoist Model L5, check the following items as well.

| Symptom | Cause | Remedy |
|---|---|---|
| Hoist will not lift under the rated load | Failure of the overload limiter and other components caused by applying frequently an excessive overload to the hoist. | Contact your dealer. Do not operate frequently the hoist under an excessive overload. Always use the hoist under the rated load or less. |
| Hoist will lift a load only halfway. | Overload limiter is working. | Reduce the load under the rated load. |
| Lever operation is not smooth | Deformation or damage of the parts such as pinion or spacer due to a drop of the hoist and other external impact. | Check the parts and replace deformed or damaged parts. Avoid external impact. |

# Parts List

The following list shows the dedicated parts for Manually Lever Operated Chain Hoist  L5 with the overload limiter. For the common parts with the standard L5 product, see Owner's (Operator's) Manual and Safety Instructions for Manually Lever Operated Chain Hoist L5.
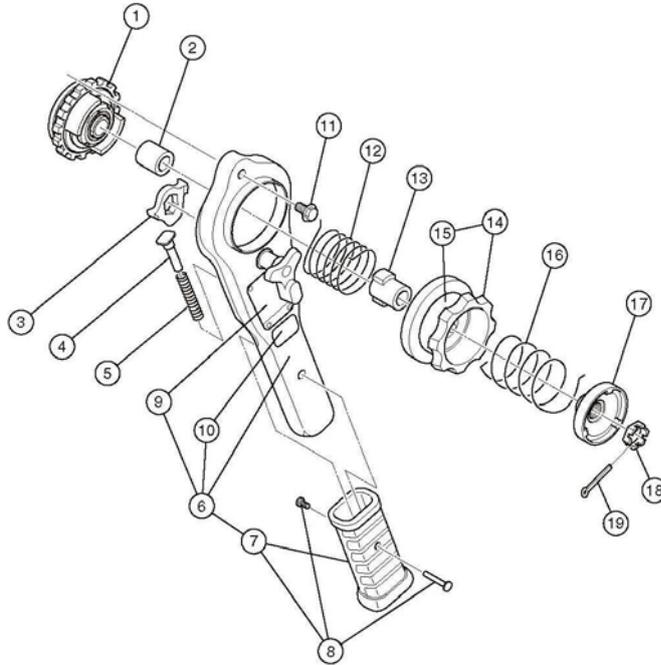


| Fig. No. | Part No. | | Part name | Nos. per Hoist | Capcity (t) | | | | | | | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.8t | 1t | 1.6t | 2.5t | 3.2t | 6.3t | 9t | |
| 1 | 5301-OLL | | Female Thread Assembly | 1 | L5FA008-5301 | | | | L5FA032-5301 | | | |
| 2 | 310-OLL | | Spacer | 1 | L5FA008-9310 | | | | L5FA032-9310 | | | |
| 3 | 218 | | Select Pawl | 1 | L4BA008-9218 | | | | L4BA015-9218 | | | |
| 4 | 222 | | Spring Shaft | 1 | L2BA008-9221 | | | | L3BA015-9222 | | | |
| 5 | 223 | | Select Pawl Spring | 1 | L2BA008-9223 | | | | L2BA015-9223 | | | |
| 6 | 6211 | | Lever Assembly（Europe） | 1 | L5BA008-6211 | | L5BA016-6211 | | L5BA032-6211 | | | |
| 7 | 231 | | Grip | 1 | L5BA008-9231 | | L5BA016-9231 | | L5BA032-9231 | | | With binding screw |
| 8 | | 232 | Binding Screws | 1 | L5BA008-9232 | | | | L5BA032-9232 | | | |
| 9 | 800 | | Nameplate (Europe) | 1 | L5BG008-9800 | L5BG010-9800 | L5BG016-9800 | L5BG025-9800 | L5BG032-9800 | L5BG063-9800 | L5BG090-9800 | |
| 10 | 801 | | Nameplate B (Europe) | 1 | L5FG008-9801 | | L5FG016-9801 | | L5FG032-9801 | | | |
| 6 | 6211 | | Lever Assembly (Africa, with SABS mark) | 1 | L5BA008-6211 | | L5BA016-6211 | | L5BA032-6211 | | | |
| 7 | 231 | | Grip | 1 | L5BA008-9231 | | L5BA016-9231 | | L5BA032-9231 | | | With binding screw |
| 8 | | 232 | Binding Screws | 1 | L5BA008-9232 | | | | L5BA032-9232 | | | |
| 9 | 800 | | Nameplate (Africa, with SABS mark) | 1 | L5BQ008-9800 | L5BA010-9800 | L5BQ016-9800 | L5BA025-9800 | L5BQ032-9800 | L5BA063-9800 | L5BA090-9800 | |
| 10 | 801 | | Nameplate B (Africa, with SABS mark) | 1 | L5FD008-9801 | | L5FD016-9801 | | L5FD032-9801 | | | |
| 6 | 6211 | | Lever Assembly (Other) | 1 | L5BA008-6211 | | L5BA016-6211 | | L5BA032-6211 | | | |
| 7 | 231 | | Grip | 1 | L5BA008-9231 | | L5BA016-9231 | | L5BA032-9231 | | | With binding screw |
| 8 | | 232 | Binding Screws | 1 | L5BA008-9232 | | | | L5BA032-9232 | | | |
| 9 | 800 | | Nameplate (Other) | 1 | L5BA008-9800 | L5BA010-9800 | L5BA016-9800 | L5BA025-9800 | L5BA032-9800 | L5BA063-9800 | L5BA090-9800 | |
| 10 | 801 | | Nameplate B (Other) | 1 | L5FD008-9801 | | L5FD016-9801 | | L5FD032-9801 | | | |
| 11 | 221 | | Hex Cap Screw | 1 | L4BA008-9221 | | | | L4BA015-9221 | | | |
| 12 | 207-OLL | | Brake Spring | 1 | L5FA008-9207 | | | | L5FA032-9207 | | | |
| 13 | 203-OLL | | Cam Guide | 1 | L5FA008-9203 | | | | L5FA032-9203 | | | |
| 14 | 5201-OLL | | Free Chain Knob Assembly | 1 | L5FA008-5201 | | | | L5FA032-5201 | | | With name plate U |
| 15 | | 810 | Nameplate U | 1 | L5BA008-9810 | | | | | | | |
| 16 | 205-OLL | | Free Chain Spring | 1 | L5FA008-9205 | | | | L5FA032-9205 | | | |
| 17 | 208-OLL | | Spring Holder | 1 | L5FA008-9208 | | | | L5FA032-9208 | | | |
| 18 | 183 | | Slotted Nut | 1 | C3BA020-9049 | | | | | | | For pinion |
| 19 | 187 | | Split Pin | 1 | J1PW01-020014 | | | | | | | For pinion |

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