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

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**Manually Lever Operated Chain Hoist Model L5**  
**with Overload Limiter**



## 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 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 a anchored object.
- Do not lower excessively

### **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.
- Do not replace female thread assembly and brake cover assembly which are the exclusive parts.

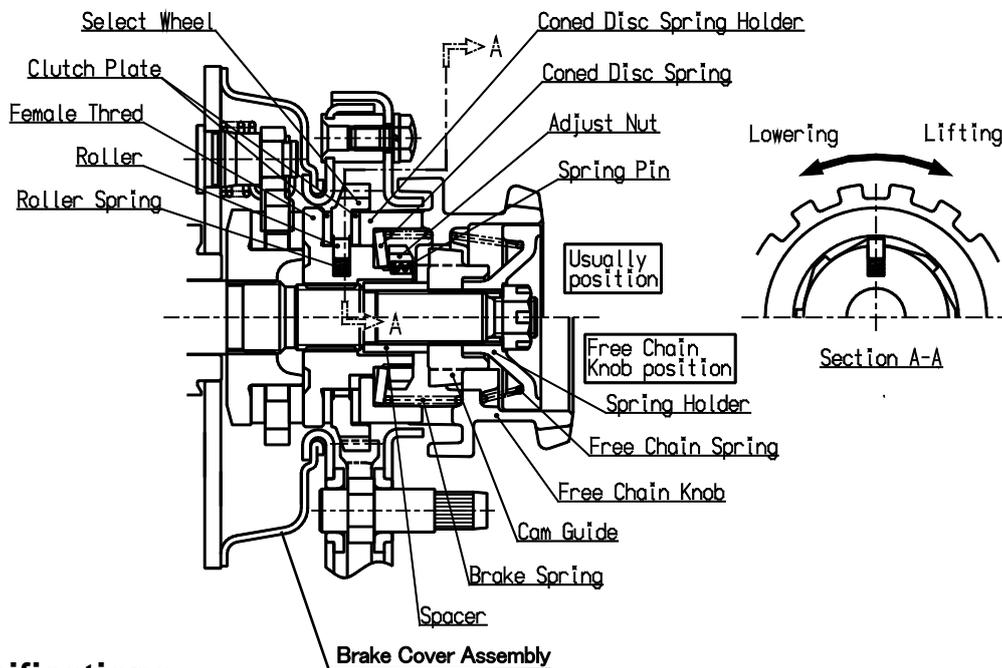
Failure to follow these instructions could lead to serious or even fatal injury.

### **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



## ■ 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 overload in lifting operation. The clutch slips the select wheel compressed between the clutch plates by the force of the cone disc spring.

- 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

### DANGER

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

Failure to follow these instructions could lead to serious or even fatal injury.

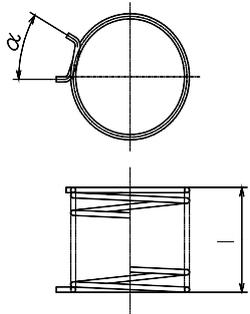
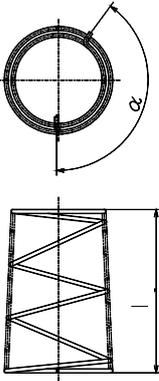
# DAILY and PERIODIC Inspection

## ■ 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	No deformation beyond the limited value. <table border="1"> <thead> <tr> <th rowspan="2">Capacity (tonnes)</th> <th colspan="2">Size I (mm)</th> <th colspan="2">Angle:α(°)</th> </tr> <tr> <th>Standard</th> <th>Discard</th> <th>Standard</th> <th>Discard</th> </tr> </thead> <tbody> <tr> <td>0.8, 1</td> <td rowspan="3">36</td> <td rowspan="3">30</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>25</td> <td>40</td> </tr> </tbody> </table>	Capacity (tonnes)	Size I (mm)		Angle:α(°)		Standard	Discard	Standard	Discard	0.8, 1	36	30	30	45	1.6	2.5	3.2, 6.3, 9	40	25	25	40	Replace the Brake Spring.
Capacity (tonnes)	Size I (mm)			Angle:α(°)																				
	Standard	Discard	Standard	Discard																				
0.8, 1	36	30	30	45																				
1.6																								
2.5																								
3.2, 6.3, 9	40	25	25	40																				
Deformation of Free Chain Spring 	Check visually	No deformation beyond the limited value. <table border="1"> <thead> <tr> <th rowspan="2">Capacity (tonnes)</th> <th colspan="2">Size I (mm)</th> <th colspan="2">Angle:α(°)</th> </tr> <tr> <th>Standard</th> <th>Discard</th> <th>Standard</th> <th>Discard</th> </tr> </thead> <tbody> <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> </tbody> </table>	Capacity (tonnes)	Size I (mm)		Angle:α(°)		Standard	Discard	Standard	Discard	0.8, 1	67	60	145	160	1.6	2.5	3.2, 6.3, 9	75	68	110	125	Replace the Free Chain Spring.
Capacity (tonnes)	Size I (mm)			Angle:α(°)																				
	Standard	Discard	Standard	Discard																				
0.8, 1	67	60	145	160																				
1.6																								
2.5																								
3.2, 6.3, 9	75	68	110	125																				
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 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.

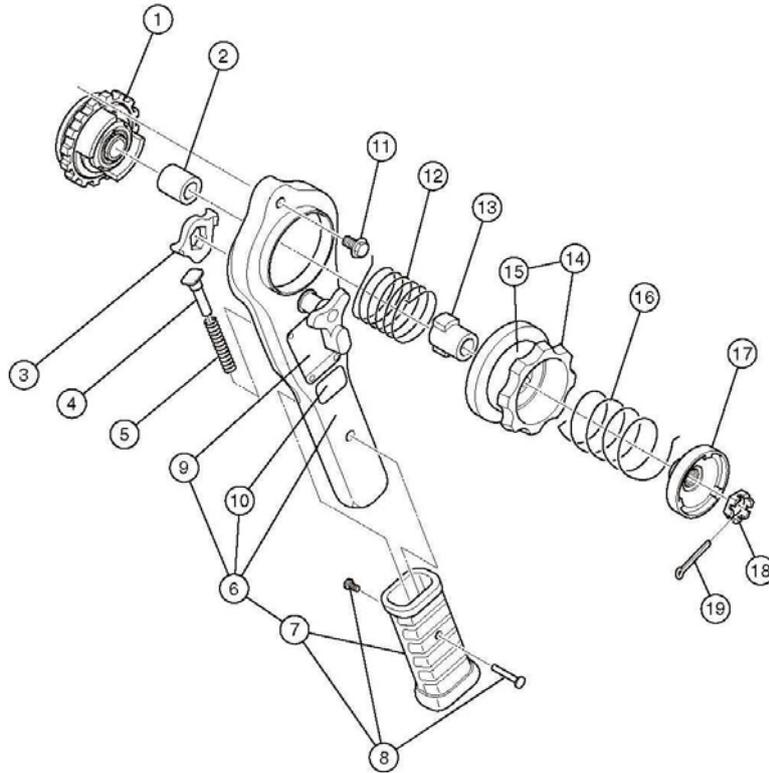


Fig. #	Part #	Part Name	Nos. per Hoist	Capacity (t)						
				0.8	1.0	1.6	2.5	3.2	6.3	9.0
1	5301	Female Thread Assembly	1	(Note)						
2	310	Spacer	1	L5FA008-9310				L5FA032-9310		
3	218	Select Pawl	1	L4BA008-9218				L4BA015-9218		
4	222	Spring Shaft	1	L4BA008-9222				L4BA015-9222		
5	223	Select Pawl Spring	1	L4BA008-9223				L4BA015-9223		
6	5211	Lever Assembly (other)	1	L5FD008-5211	L5FD010-5211	L5FD016-5211	L5FD025-5211	L5FD032-5211	L5FD063-5211	L5FD090-5211
7	231	Grip	1	L5BA008-9231		L5BA016-9231		L5BA032-9231		
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		
6	5211	Lever Assembly (Europe)	1	L5FG008-5211	L5FG010-5211	L5FG016-5211	L5FG025-5211	L5FG032-5211	L5FG063-5211	L5FG090-5211
7	231	Grip	1	L5BA008-9231		L5BA016-9231		L5BA032-9231		
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		
11	922	Hex Cap Screw	1	L4BA008-9221				L4BA015-9221		
12	207	Brake Spring	1	L5FA008-9207				L5FA032-9207		
13	203	Cam Guide	1	L5FA008-9203				L5FA032-9203		
14	5201	Free Chain Knob Assembly	1	L5FA008-5201				L5FA032-5201		
15	810	Nameplate U	1	L5BA008-9810						
16	205	Free Chain Spring	1	L5FA008-9205				L5FA032-9205		
17	208	Spring Holder	1	L5FA008-9208				L5FA032-9208		
18	183	Slotted Nut	1	C3BA020-9049						
19	187	Split Pin	1	J1PW01-020014						

Note: Female thread assembly and brake cover assembly cannot be replaced in the L5 with overload limiter.



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