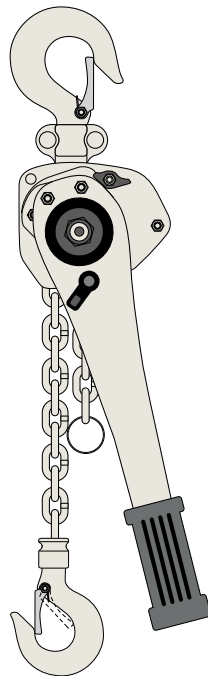


L3 Series

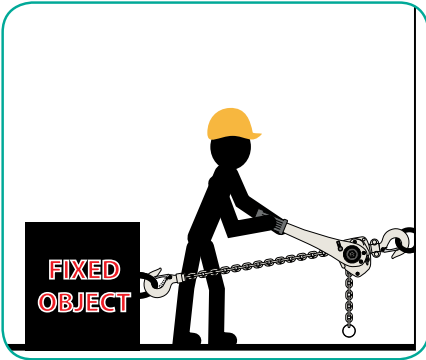
LEVER BLOCK

Operational Instruction Manual

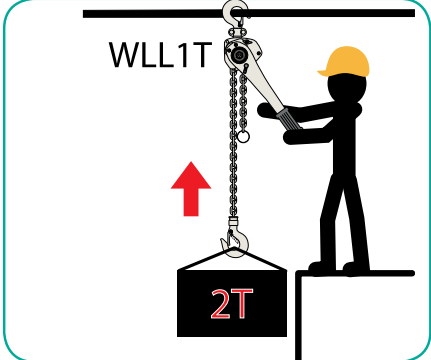


ISO9001
ISO14001

⚠ Don'ts That Should Be Observed.



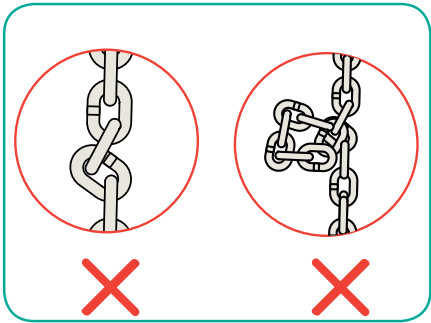
1: Don't perform excessive fixed dragging.



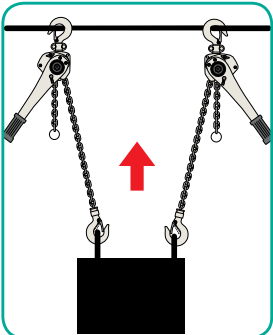
2: Don't apply a load greater than work load limit.



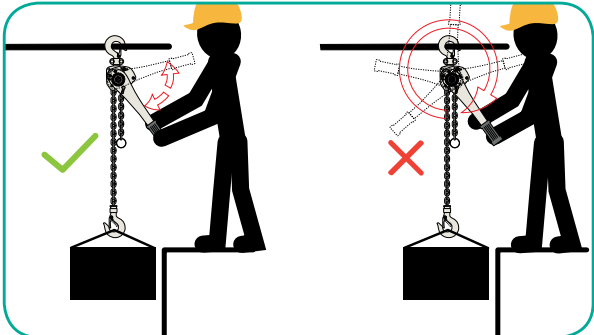
3: Don't use damaged or deformed parts.



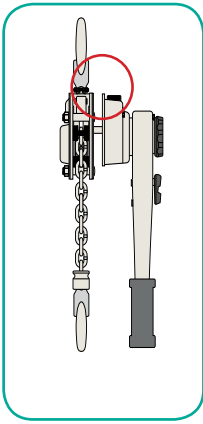
4: Don't use the chain with a twist or kink.



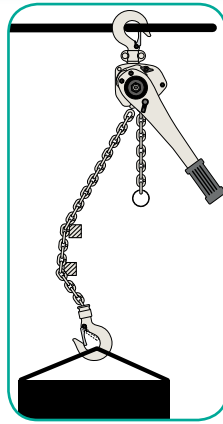
5: Don't Try to suspend a load with two blocks.



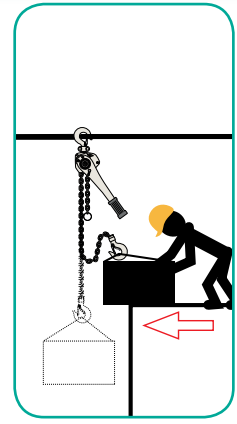
6: Don't use the handle abruptly or in a excessively fasten.



7: Don't use the hoist unless the lock pawl is fully engaged from holder plate.



8: Don't put the upper and lower hooks out of alignment with the chain.

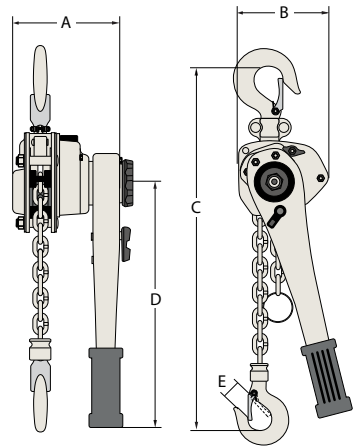


9: Don't give block shock load pressures.

FEATURES:

Five prominent features in design and in service are Inherent with L3 Series Lever Block;

- Safety in operation with chain hold function while switching direction.
- High efficiency and Light lever pull effort.
- Light weight and easy handling.
- Fine appearance with compact size.
- Durability in service with minimum maintenance.



LEVER BLOCK SPECIFICATIONS

WLL	0.25T	0.5T	0.75T	1T	1.5T	3T	6T	9T
CODE	121002	121005	121010	121015	121020	121025	121030	121035
Lift Length (m)	1	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Test Load (T)	0.38	0.75	1.12	1.5	2.25	4.5	9	13.5
Effects required At capacity, (N)	217	303	140	185	234	363	370	375
Lifting Chain Size (mm)	4	5	6.3	6.3	7.1	9	9x2	9x3
Min Hook to Hook: C (mm)	205	260	295	295	335	450	542	645
Head Room: B (mm)	75	82	128	128	148	181	232	366
Head Room: A (mm)	92	110	152	152	175	195	195	195
Handle size: D (mm)	153	251	256	256	368	368	368	368
Net weight (kg)	1.85	3.5	7.0	7.2	11	20	28	43



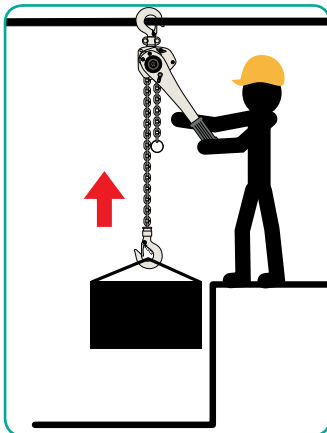
Warning: New operator must be trained prior to use!

INTRODUCTION:

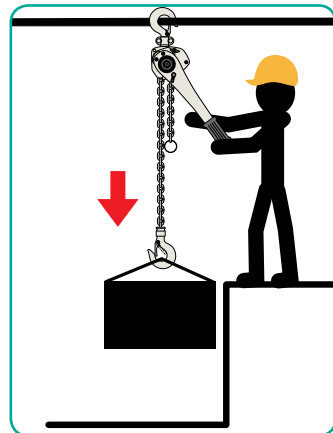
All users must read these operating instructions carefully prior to the initial operation. These instructions are intended to acquaint the user with the hoist and enable the operator to use it to the full extent of its intended capabilities. The operating instructions contain important information on how to handle the hoist in a safe, correct and economic way, Acting In accordance with these instructions helps to avoid dangers, reduce repair cost and downtime and to increase the reliability and lifetime of the hoist, apart from the operating instructions and the accident prevention act valid for the respective country and area where the hoist is used. Also the commonly accepted regulations for safe and professional work must be adhered to.

APPLICATION:

The L3 Series Lever Block is a portable lifting device easily operated by hand lever. It is suitable for use in factories, mines, farms, construction sites, wharves, docks and warehouses for installation of equipment, as well as for loading and unloading goods. It is specially advantageous for lifting work in open air grounds and places where no power supply is available. The lever block can also be used to tighten and pull loads etc. Standard chain lengths are 1.5 metres however longer chain lengths are available upon request.



LIFTING



LOWERING

CARE OF USE FOR LEVER BLOCKS

1. All persons involved in the operation of a lever hoist must read the manufacturer's handbook and be completely familiar with all operating and maintenance procedures.
2. When operating a lever hoist, always maintain a firm footing and when necessary be secured. Operate the lever hoist from a location that will be clear of the load at all times. People must stay clear of the suspended load. Never use the lever hoist to lift, support or transport people and never lift loads over or near people.
3. Before lifting a load, confirm that the lever hoist is in good condition and functioning properly.
4. Always keep the load chain well lubricated with light machine oil and protect it from weld spatter and other damaging contaminants such as corrosive chemicals etc.
5. Never allow the load chain or hooks to be used as a ground for welding and never touch them with live welding electrodes.
6. Never use the lever hoist with twisted, kinked, damaged or worn load chains and never attempt to lengthen or modify the load chain.
7. Always use proper slings and attachments in the correct manner and confirm that they are seated properly in the hooks. Also confirm that the safety catch assembly has closed completely and is not supporting any part of the load.
8. Never lift more than the rated WLL (Working Load Limit) of the hoist.
9. Slack load chain must be taken up carefully. While checking the balance of the load, lift and lower the load <100mm to test the brake system before lifting further.
10. Never run the load chain out beyond the range of lift or to the chain end anchor.
11. Never allow your attention to be diverted when operating the lever hoist and never leave a suspended load unattended.
12. Inspect the lever hoist regularly and never use a lever hoist if its malfunctioned or when unusual performance or damage is evident.
13. Never adjust, repair or modify a lever hoist unless you are competent in performing hoist maintenance.
14. Use only genuine Austlift parts when repairing the lever hoist.
15. Never remove or obscure the nameplate on the lever hoist.
16. Examine the load chain to ensure that there is no twist with lever hoists 2 falls of load chain; twists can arise from the bottom hook being accidentally turned over through the load chains.
17. Confirm that the supporting structure is strong enough to support the intended load to be lifted.

Warning: New operator must be trained prior to use!

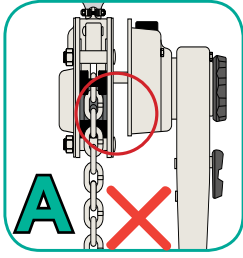
18. The changeover lever must be set to the “UP” position when the lever hoist is under a load during hoisting or pulling operations. In some cases with light loads (less than 2% of the WLL) if the changeover lever or hub is set to the neutral position, the freewheeling system will function, and the lever hoist will not be able to support the load.
19. Lifting a load with two lever hoists is not recommended. If the job is unavoidable, keep the load well within the total rated capacity of the two lever hoists and lift with exceptional care while maintaining proper balance, angle and lifting speed.
20. Do not throw or drop the lever hoist from high places. Doing so may cause damage to the lever hoist.

HOW TO USE LEVER HOIST

STEP-BY-STEP INSTRUCTIONS



1. Lightly apply oil to the chain. Ease the movement of the links, and ensure that there is no kinks or twists in the chain.
2. Set up the hook and chain in a straight line so that there is no undue strain (see caution note 8 on page 3).
3. Adjusting the length of the chain.



Normal State of Use

A Prior to use do not fail to make sure that the Retaining pawl perfectly engages the remaining plate from out side.

Start of idling

Caution: Do not operate the hoist with a load or the weight of the chain itself loaded on the holding side.



- B**
1. While depressing the retaining pawl as far as possible to the bottom with a finger.
 2. Pull the grip-ring outward.

Stop pressing the retaining pawl with Space your finger so that it slides between the side plate and the re-aining plate, By pulling, the chain can now be freely adjusted in both the upper and lower directions.

To terminate idling



- C1**
1. While pressing the retaining pawl as far as possible towards the bottom
 2. Push the grip ring gently inward.

Tip The lever hoist will engage easier if you tug on the chain during procedure 2.



- C2** This means the retaining pawl engages the outer edge of the retaining plate.



- C3**
1. Thereafter, grip the grip-ring, rotate it clockwise a little, until engaged.
 2. Push it in. The retaining pawl will automatically set itself outside of the retaining plate.

Caution:

If the grip ring is pushed in with undue force, the gear may be chipped or otherwise broken. If it does not set properly, please try again and if the problem persists take the block out of service for inspection and repair.



C4 Do not fail to make sure that the retaining pawl has returned from the outside of the plate to its original position where it holds the retaining plate. It will thereupon return to the “normal state of use” as indicated in step A.

Caution

1. Pull a small load up and down a few times to see that the brake will not slip.
2. If the rotational play of the grip ring is too large, adjust the brake according to Inspection and Maintenance “6” on the next page.
3. Select a lever having the proper rating according to the pulling force of the handle.

Capacity (Tonnes)	0.25	0.5	0.75	1	1.5	3	6	9
Pull on lever to lift full load (Kg)	11	17	15	20	18	38	39	41

AFTER USE

1. Be sure to leave the lever block in non-idling condition (See To Termination of Idling on previous page).
2. Wipe dirt and water off and apply lubricant to the chain, the revolving parts, the hook, the retaining pawl shaft, etc.
3. To store the lever block, hang it up in a dry place, away from the excessive dust and harsh chemicals.

HOW TO DISASSEMBLE THE LEVER BLOCK

(See Illustration of Parts on page 10)

1. Disconnecting the chain; Set the end apart and slip the chain out in idling condition (See step B on the previous page.)
2. Disassembly of the handle and brake; Disassemble from the right-hand side of Illustration of Parts.
3. Disassembly of the gear and center; Disassemble from the left-hand side of Illustration of Parts.
4. Reassembly; Assemble in the order of part numbers in Illustration of Parts.

INSPECTION AND MAINTENANCE

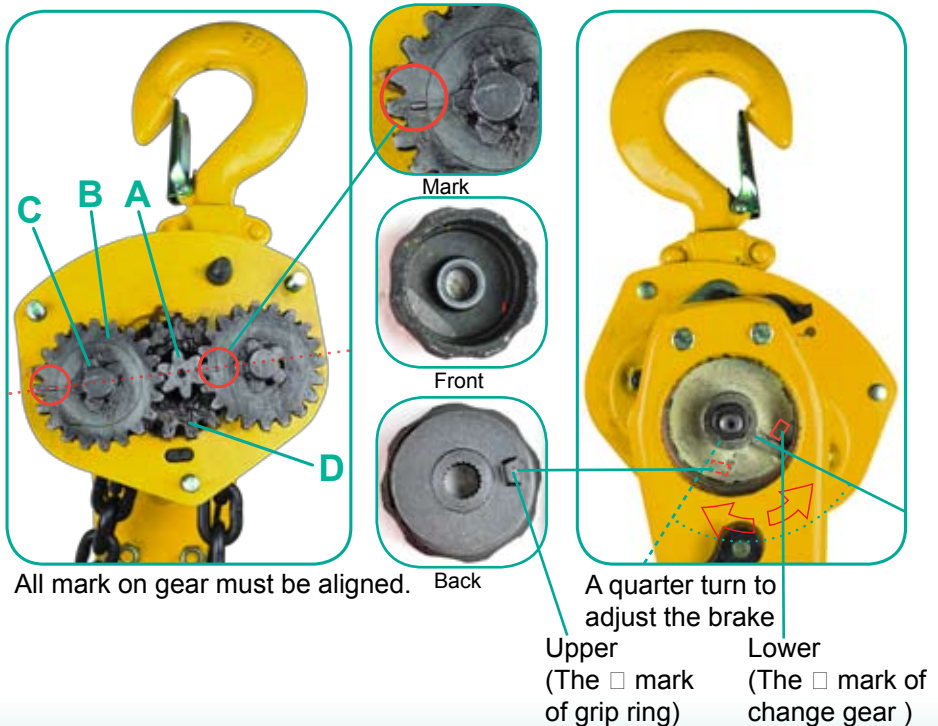
If flaws such as (elongation, deformed, wear, cracks, bend, etc) are discovered, replace the faulty parts with new genuine Austlift parts.

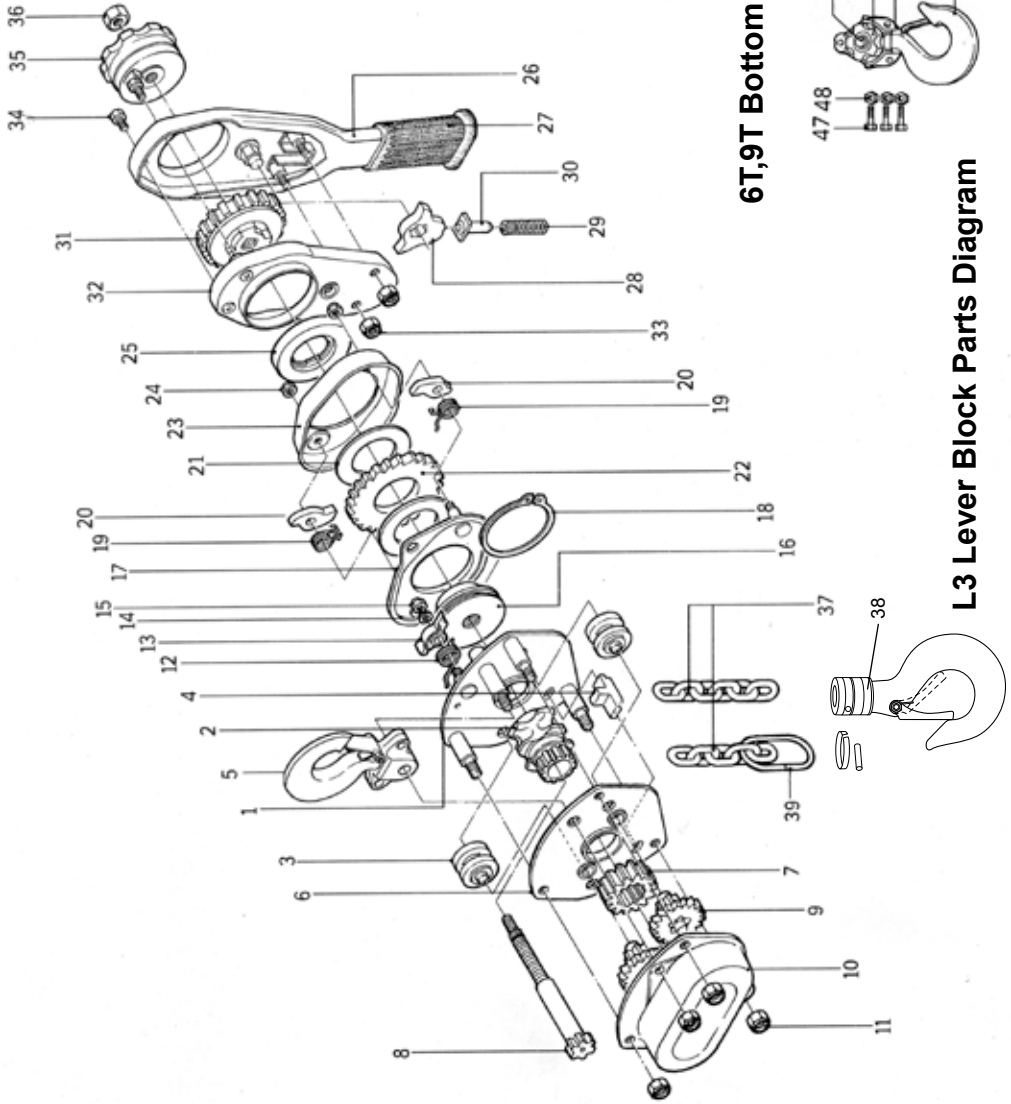
1. Check to see if the chain, end and bottom hook have been damaged.
2. See if the handle, grip ring, push ring, brake plate, retaining plate, hub etc. have been damaged, check, also, to see if in an idling operation the retaining plate and pawl have excessive rattle.
3. Check to see if the gear cover, gear ,side plate 1, top hook, hook, pin,



Warning: New operator must be trained prior to use!

- guide, load sheave, pinion shaft or side plate 2 has been damaged.
- In assembling, wash all parts well with degreaser. The teeth on the center line of two marks at the B gear spline, should be disposed, across the 1 in the inner/outer, arrangement in the case of the 0.75T model, in the inner/outer relation in the case of 3-ton model, and in the free position for the 1.5T model.
 - Do not lubricate the two brake disks and the friction surfaces contacting them.
 - How to adjust the brake; Disconnect the grip ring and with the change lever in central position, pull the chain carrying the hook strongly by a hand in the lowering direction, whereupon the brake is set in tightly engaged position. Then, fit the grip ring in such a manner that its projection (Lug mark □) will be aligned with the lug mark □ of the change gear.





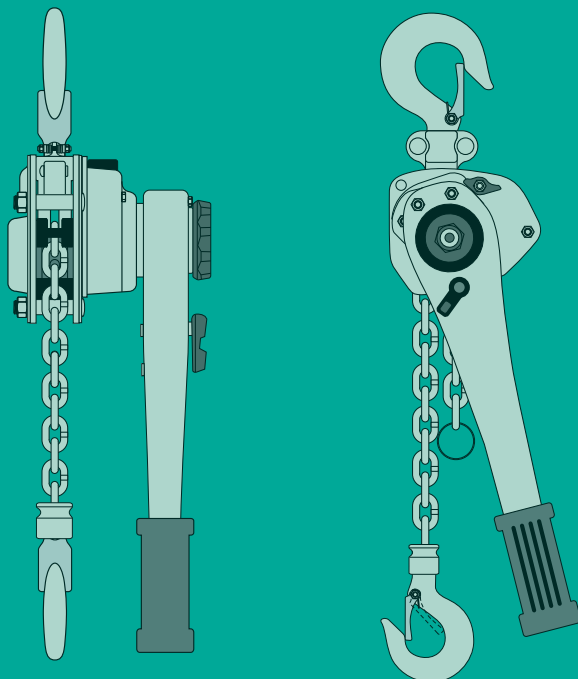
6T,9T Bottom Hooks

L3 Lever Block Parts Diagram



Warning: New operator must be trained prior to use!

KEY	PART NAME	QUANTITY	KEY	PART NAME	QUANTITY
1	Side Plate1	1	20	Brake pawl	2
2	Load sheave	1	21	Brake disc	2
3	Load chain guide	2	22	Ratchet gear	1
4	Chain stripper	1	23	Brake cover	1
5	Top hook set	1	24	U-nut for B.C.	2
6	Side plate 2	1	25	Brake ring	1
7	1st gear	1	26	Lever body	1
8	Pinion shaft	1	27	Grip	1
9	2nd gear, 3rd gear	2	28	Change pawl	1
10	Gear cover set	1	29	Pushing up spring	1
11	Nut for gear cover	4	30	Pushing up pin	1
12	Retaining spring	1	31	Change gear	1
13	Retaining pawl	1	32	Lever cover	1
14	Washer for pawl	1	33	U-nut for L.C.	2
15	U-nut for pawl	1	34	Bolt for L.C.	2
16	Hub	1	35	Grip ring	1
17	Retaining plate set	1	36	Pinion nut	1
18	Snap link for hub	1	37	Loading chain	1
19	Brake spring	2	38	Bottom hook set	1
6T, 9Ton Bottom Hook Parts					
43	Hook	1	46	Idle sheave	1
44	Frame	2	47	Bolt	3
45	Axel	1	48	Nut	3



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