AUSTLIFT®

Lifting Your Business to A Higher Level

USER MANUAL

LEVER BLOCK L-3, L-4

Standard: 121002, 121005, 121010, 121015, 121020, 121025, 121030, 121035
121305, 121310, 121315, 121320, 121325, 121330, 121335, 121620, 121625

Overload Protection: 121107, 121111, 121115, 121130, 121190

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www.austlift.com.au
AUSTRALIAN LIFTING CENTRE PTY LTD

WARNING
New operator must be trained prior to use!

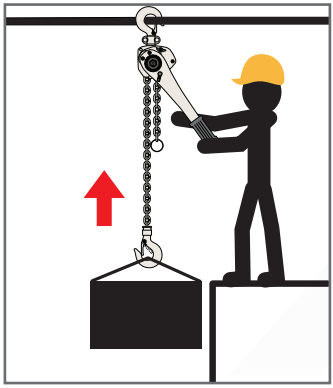
Introduction

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.

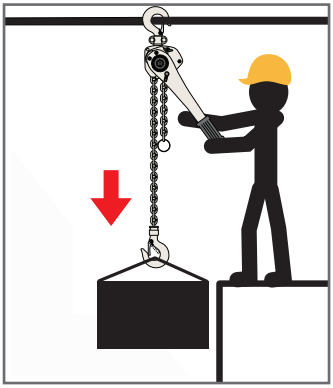
Application

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.



Llifting



Lowering

Feature

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

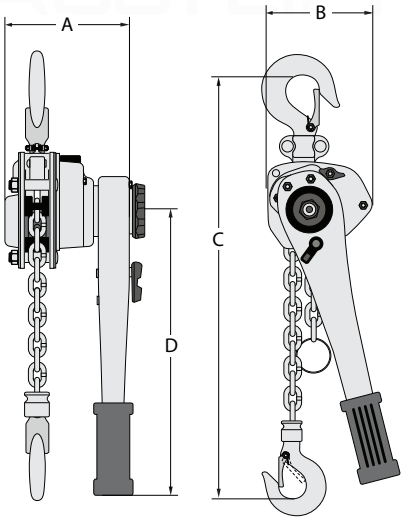
- Safety in operation with chain hold function while switching direction.
- High efficiency and Light lever pull effort.
- Light weight and easy handing.
- Fine appearance with compact size.
- Durability in service with minimum maintenance.

Lever Block/Come Along (L3 Series)

Austlift L-3 series lever blocks are used for general hoisting in the mining, construction, industrial and domestic situations. Commonly used for short lifts and pulling applications.

- Standard height of lift 1.5 or 3M except for 250kg which has 1 metre lift. Other lift height available upon request.
- Robust, durable, portable and compact in construction.
- All lever blocks come with ball bearing swivel hook.
- Spare parts available refer to page 67.

AS/NZS 1418.2 | Certified | Instruction Manual | WLL From 250kg~9t



Standard Lever Block Specifications

CHAIN SIZE (mm)	CODE	LIFT LENGTH (M)	WLL (T)	TEST LOAD (T)	EFFECTS REQUIRED (N)	NT. (kg)	DIMENSION (mm)			
							A	B	C min.	D
4	121002	1	0.25	0.38	217	1.85	92	75	205	153
5	121005	1.5	0.5	0.75	303	3.5	110	82	260	251
	121305	3								
6.3	121010	1.5	0.8	1.2	140	7.0	152	128	295	256
	121310	3								
6.3	121015	1.5	1	1.5	185	7.2	152	128	295	256
	121315	3								
7.1	121020	1.5	1.6	2.4	234	11	175	148	335	368
	121320	3								
	121620	6								
9	121025	1.5	3 .2	4.8	363	20	195	181	450	368
	121325	3								
	121625	6								
9x2	121030	1.5	6.3	9.45	370	28	195	232	542	368
	121330	3								
9x3	121035	1.5	9	13.5	375	43	366	195	645	368
	121335	3								

Overload Protection Lever Block Specifications

CHAIN SIZE (mm)	CODE	LIFT LENGTH (M)	WLL (T)	TEST LOAD (T)	EFFECTS REQUIRED (N)	NT. (kg)	DIMENSION (mm)			
							A	B	C min.	D
6.3	121107	1.5	0.8	1.12	140	7.0	152	128	295	256
6.3	121111	1.5	1	1.5	185	7.2	152	128	295	256
7.1	121115	1.5	1.6	2.4	234	11	175	148	335	368
9	121130	1.5	3.2	4.8	363	20	195	181	450	368
9x2	121160	1.5	6.3	9.45	370	28	195	232	542	368
9x3	121190	1.5	9	13.5	375	43	366	195	645	368
Specially Designed with Overload Protection										

Care in use

1. All persons involved in the operation of a lever hoist must read the manufacturers 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.

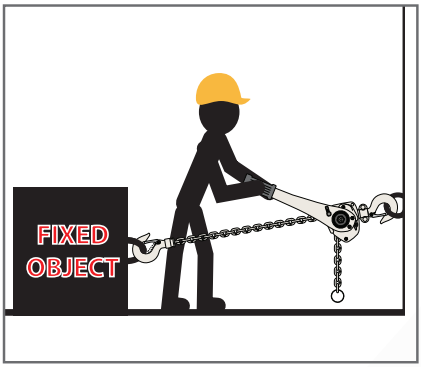
17. Confirm that the supporting structure is strong enough to support the intended load to be lifted.

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.

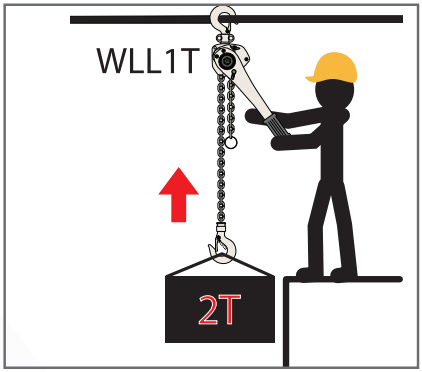
19. Lifting a load with two lever hoists is not recommended. If the job is unavoidable, keep the load well within the total rated capacity of the two lever hoists and lift with exceptional care while maintaining proper balance, angle and lifting speed.

20. Do not throw or drop the lever hoist from high places. Doing so may cause damage to the lever hoist.

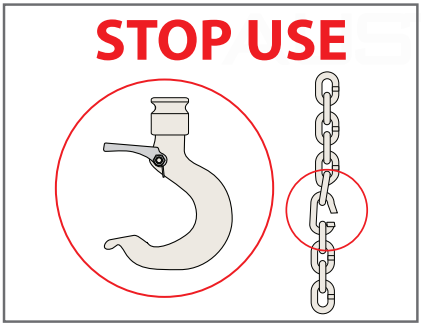
WARNING
New operator must be trained prior to use!



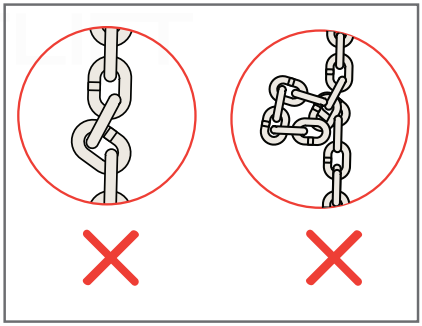
1. Don't perform excessive fixed dragging.



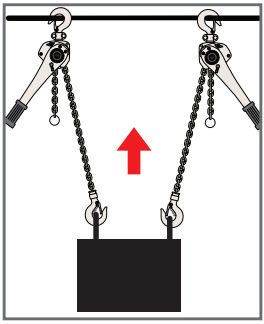
2. Don't apply a load greater than work load limit.



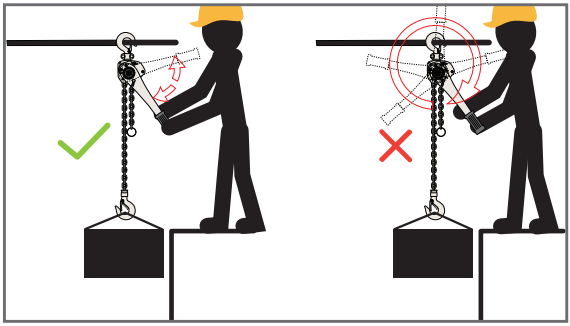
3. Don't use damaged or deformed parts.



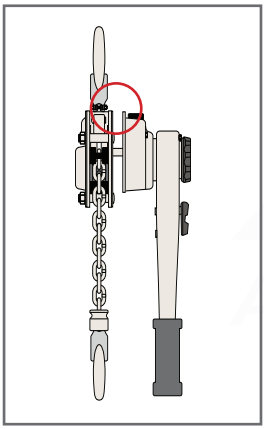
4. Don't use the chain with a twist or kink.



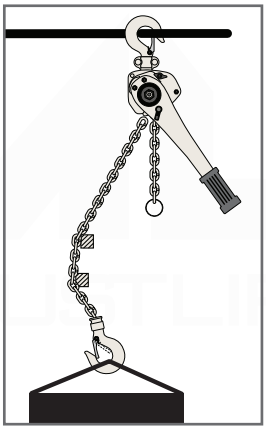
5. Don't Try to suspend a load with two blocks.



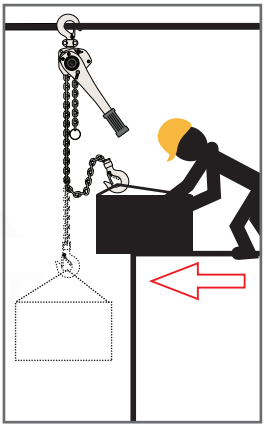
6. Don't use the handle abruptly or in a excessively fasten.



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.

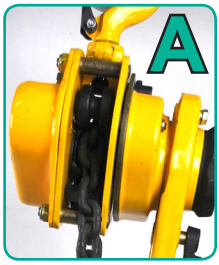


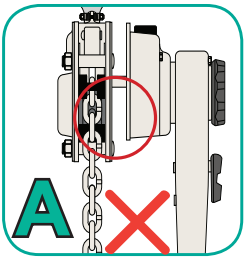
9. Don't give block shock load pressures.

How to use Lever Block

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).





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.

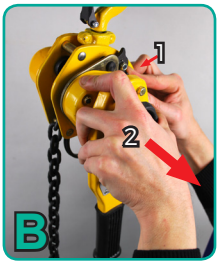
CAUTION

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.

3. Adjusting the length of the chain.

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 gripring outward.

Stop pressing the retaining pawl with Space your finger so that it slides between the side plate and the retaining 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 gripring, 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 property, 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.

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)

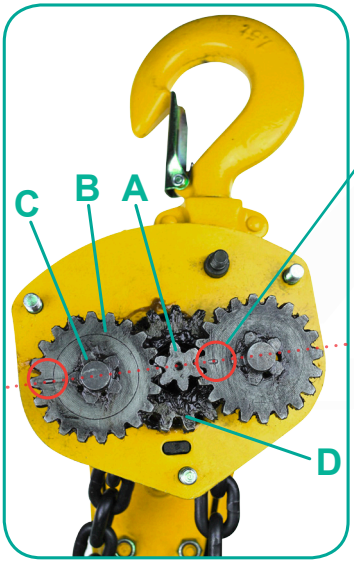
1. Disconnecting the chain; Set the end apart and slip the chain out in idling condition (See step B on the previous page.)
2. Disassembly of the handle and brake; Disassemble from the right-hand side of Illustration of Parts.
3. Disassembly of the gear and center; Disassemble from the left-hand side 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, guide, load sheave, pinion shaft or side plate 2 has been damaged.
4. 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.

5. Do not lubricate the two brake disks and the friction surfaces contacting them.
6. 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 “box”) will be aligned with the lug mark “box” of the change gear.



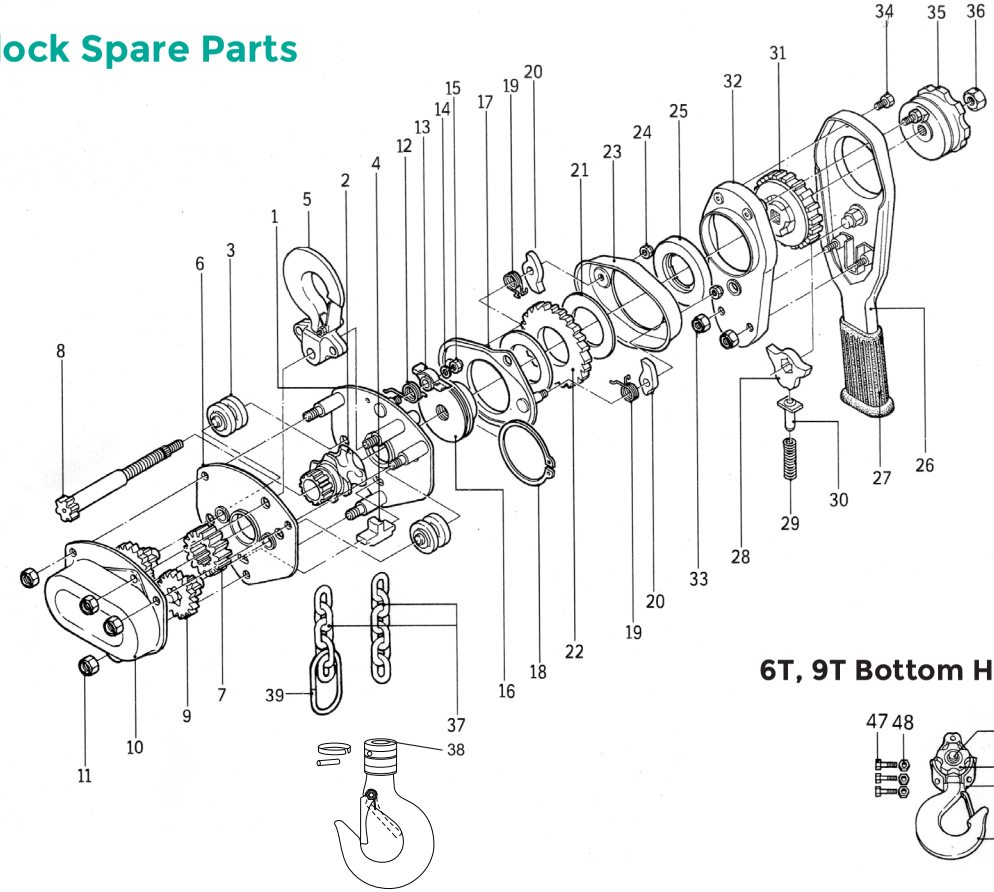
All mark on gear must be aligned.

A quarter turn to adjust the brake

Lower (The “box” mark of change gear)

Upper (The “box” mark of grip ring)

Lever Block Spare Parts



6T, 9T Bottom Hook

L3 LEVER BLOCK SPARE PARTS						
WLL (T)	NO. 2 Sprocket	NO. 3 Load Chain Guide	NO. 4 Chain Striper	NO. 5 Top Hook Set	NO. 12 Retaining Spring	NO. 13 Retaining Pawl
0.25	-	-	-	-	-	-
0.5	-	-	-	-	-	-
0.8	020207SP	020307SP	020407SP	020507SP	021207SP	021307SP
1	-	-	-	020510SP	-	-
1.6	020215SP	020315SP	020415SP	020515SP	021215SP	021315SP
3.2	020230SP	020330SP	020430SP	020530SP	021230SP	021330SP
6.3	020260SP	020360SP	020460SP	020560SP	021260SP	021360SP
9	-	-	-	-	-	-
WLL (T)	NO. 19 Brake Spring	NO. 20 Brake Pawl C/W Nut & Washer	NO. 21 Brake Disc	NO. 22 Ratchet Gear	NO. 23 Brake Cove	NO. 25 Brake Ring
0.25	-	-	-	-	-	-
0.5	-	-	022105SP	-	-	-
0.8	021907SP	022007SP	022107SP	022207SP	022307SP	022507SP
1	-	-	-	-	-	-
1.6	021915SP	022015SP	022107SP	022215SP	022315SP	022515SP
3.2	021930SP	022030SP	022130SP	022230SP	022330SP	022530SP
6.3	021960SP	022060SP	022130SP	022260SP	022360SP	022560SP
9	-	-	022190SP	-	-	-

WLL (T)	NO. 26	NO. 27	NO. 28	NO. 29	NO. 30	NO. 32
	Lever Body	Lever Body Grip	Change Pawl	Push Up Spring	Push Up Pin	Lever Cover
0.25	-	-	-	-	-	-
0.5	022605SP	-	-	-	-	-
0.8	022607SP	022707SP	022807SP	022907SP	023007SP	023207SP
1	-	-	-	-	-	-
1.6	022615SP	022715SP	022815SP	022915SP	023015SP	023215SP
3.2	022630SP	022730SP	022830SP	022930SP	023030SP	023230SP
6.3	-	022760SP	022860SP	022960SP	023060SP	023260SP
9	-	-	-	-	-	-

WLL (T)	NO. 35	NO. 36	NO. 37	NO. 38		
	Grip Ring	Pinion Nut	Load Chain	Bottom Hook Set	Pin for Load Chain	Hook safety Latch
0.25	-	-	-	-	-	024105SP
0.5	-	-	-	-	-	024107SP
0.8	023507SP	023607SP	023706SP	023807SP	024007SP	024110SP
1	-	-	023706SP	023810SP	024010SP	024115SP
1.6	023515SP	023615SP	023707SP	023815SP	024015SP	024120SP
3.2	023530SP	023630SP	023709SP	023830SP	024030SP	024130SP
6.3	023560SP	023660SP	023709SP	023860SP	024060SP	024160SP
9	-	-	023709SP	-	-	024190SP

WLL (T)	NO. 47 + 48	-
	Hook Bolt/nut Set	Up-Down Change Lever
0.25	-	-
0.5	-	-
0.8	024707SP	024907SP
1	024710SP	-
1.6	024715SP	024915SP
3.2	024730SP	024930SP
6.3	024760SP	024960SP
9	-	-

INSPECTION LOG

Product Type : ____________________________ Year of Mnf. : ____________________________

Serial No. : ____________________________ User Name: ____________________________

DATE	COMMENTS/DEFECTS	SIGNATURE

AUSTLIFT®

Wholesale of Lifting, Rigging, Load Restraint
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