0.8t→6.3t

V LEVER VR2

VITAL® LEVER

Lever hoists

Light Weight, High Quality!


Lifting


Lowering


Fastening


Pulling

VITAL brand is registered worldwide.

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VITAL CHAIN BLOCK MFG.CO.,LTD.

For Lifting, Lowering, Fastening and Pulling.

VITAL® LEVER **Lever hoists**

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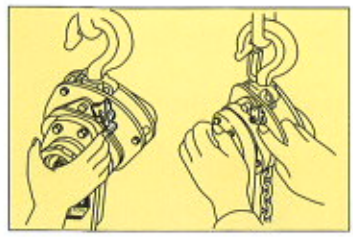
Idling operation:



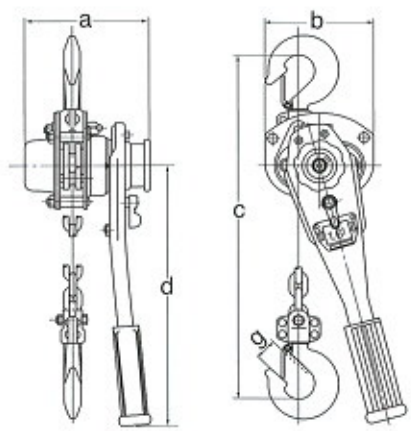
1. Depress the retaining pawl all the way down and pull the glip ring towards you.
2. The chain can be adjusted up and down by hand.
3. To terminate the idling. Set the change lever in the down(⇩)position.(See diagram at right).
   Then, depressing the retaining pawl as far as possible, push the grip ring gently so as to let the pawl engage the outer edge of the retaining plate.
   Next, grip the grip ring and handle with a single hand and push them while turning them counterclockwise.
   The retaining pawl returns to its original position.

0.8 t **1 t** **1.6 t** **3.2 t** **6.3 t**

Specifications

Model Number			VR2-08	VR2-10	VR2-15	VR2-30	VR2-60
Capacity		(t)	0.8	1	1.6	3.2	6.3
Standard Lift		(m)	1.5	1.5	1.5	1.5	1.5
Net Weight		(kg)	6.9	7.1	9.7	16.3	26.7
Min.Distance between Hooks		(mm)	295	310	335	405	550
Pull Required to Lift Full Load		(kgf)	15	20	18	38	39
		(N)	147	196	177	373	382
Chain thickness		(mm)	6.3	6.3	7.1	9.0	9.0
Dimension	a	(mm)	148	148	163	191	191
	b	(mm)	128	128	148	181	244
	c	(mm)	295	310	335	405	550
	d	(mm)	256	256	368	368	368
	g	(mm)	27	30	34	43	47

·Hoists with the life in other lengths are also available.



·Please note that the specifications on this leaflet may be modified for improvements without notice.

Vital offers products that are designed for longtime use, providing the lowest possoble per-use cost.

Since 1933
VITAL CHAIN BLOCK MFG.CO.,LTD.

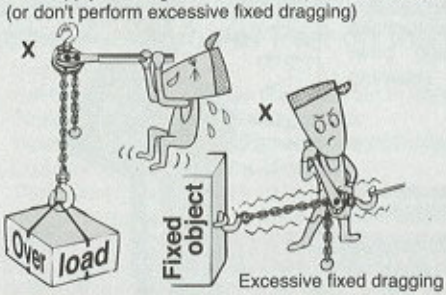
CAT.NO.VR-07-3

Instruction Manual for the Lever Hoist

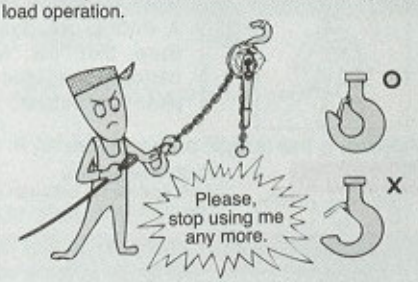
Eight Don'ts That Should Be Observed:

Since the lever hoist handles heavy objects, negiect of safety precautions can lead to damage to articles or loss of life. You cannot be too careful about handling.

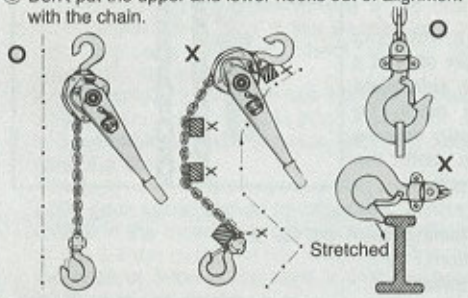
① Don't apply a load greater than the specified tonnage (or don't perform excessive fixed dragging)



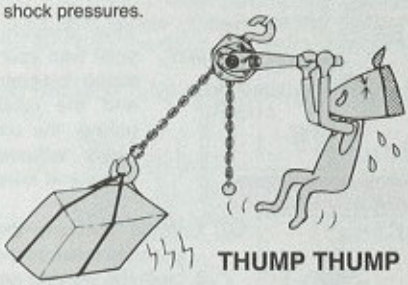
② Don't use parts which have been deformed by overload operation.



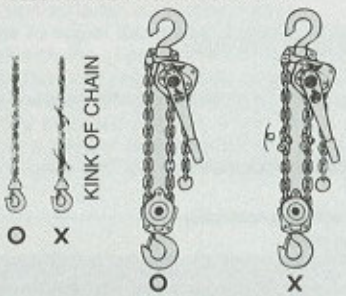
③ Don't put the upper and lower hooks out of alignment with the chain.



④ Don't use your chain block in ways that produce shock pressures.

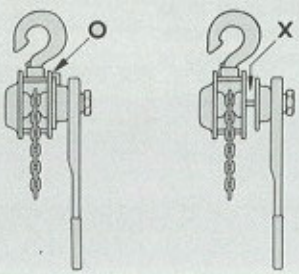


⑤ Don't use the chain with a twist or kink.

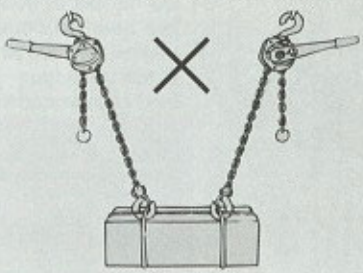


⑥ Don't excessively unwind or wind.

⑦ Don't fail to make sure that the holder pawl perfectly holds the holder plate.

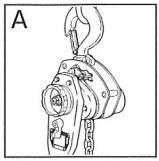


⑧ Don't try to suspend a load with two blocks.



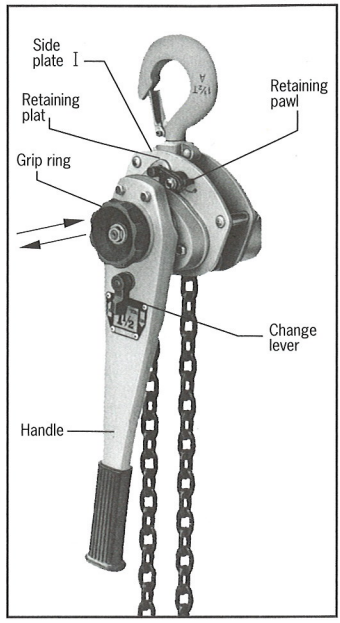
How to use the Lever Hoist Step-by-step instructions

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



Normal state of use

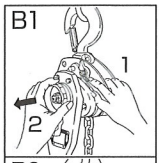
A. Prior to use, do not fail to make Sure that the retaining pawl perfectly engages he retaining plate from outside.



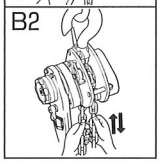
3. Adjusting the length of the chain.

Start of idling

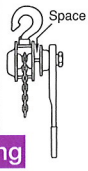
(Cautions before use)
Do not operate the hoist with a load or the weight of the chain itself loaded on the holding side.



B1. 1.While depressing the retaining pawl as far as possible to the bottom with a finger,
2.Pull the grip-ring outward.

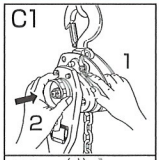


B2.

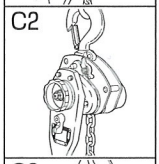


Stop pressing the retaining pawl with your finger so that it slides between the side plate and the retaining plate, By pulling, the chain can now be freely adjusted in both the upper and lower directions.

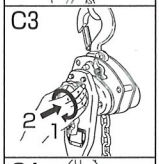
To terminate idling



C1. 1. While pressing the retaining pawl as far as possible towards the bottom,
2. push the gripring gently inward.

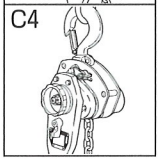


C2. This means the retaining pawl engage the outer edge of the retaining plate.



C3. 1. Thereafter, grip the grip-ring, rotate it clockwise a little, and
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 by chipped or otherwise broken. If it does not set properly, please try again.



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 A.

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

Capacity (tons)	0.8	1	1.6	3.2	6.3
Pull on lever to lift full lead (kg)	15	20	18	38	39

After Use

1. Be sure to leave the lever in non-idling condition (See Cancellation of Idlling 3d3 on the previous page).
2. Wipe dirt and water off and apply oil to the chain, the revolving parts of the hook, the retaining pawl shaft, etc.
3. To store the lever, hung it up in a dry place.

How to Disassemble the Lever

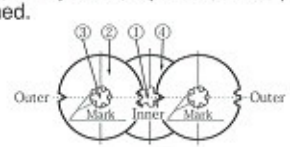
(See Illustration of Part on the next page)

1. Disconnecting the chain;
   Set the end apart and slip the chain out in idling condition (3d2 on the previous page)
2. Disassembly of the handle and breke;
   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 serial numbers in Illustration of Parts.

Inspection and Maintenance

If deformations (elongation, mar, wear, crack, bend, etc.) are discovered, replace the affected parts with new ones.

1. In Disassembly 1, check to see if the chain, end and bottom hook have been deformed.
2. In Disassembly 2, see if the handle, grip ring, push ring, brake plate, retaining plate, hub etc. have been deformed, Check, also, to See if in an idling operation the retaining plate and pawl rattle too much.
3. In Disassembly 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 deformed.
4. In assembbling, wash all parts well with cleaning oil or the like.
   The teeth on the centerline of two marks at the L207 gear spline should be disposed, across the LV220 in the inner/inner arrangement in the case of the 3/4-ton model, in the inner/outer relation in the case of 3-ton model, and in the free position for the 1 ½-ton 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 with a hand in the lowering direction, wherepon the brake is set in tightly engaged position. Then, fit the grip ring in such a manner that its projection (marked □) will be aligned with the mark □ of the change gear.



①LV220
②L207
③L208
④L206

Lower (The □ mark of change gear)

Upper (The □ mark of grip ring)

■Specifications

Model number			VR2-08	VR2-10	VR2-15	VR2-30	VR2-60
Capacity		(t)	0.8	1	1.6	3.2	6.3
Standard lift		(m)	1.5	1.5	1.5	1.5	1.5
Net weight		(kg)	6.9	7.1	9.7	16.3	26.7
Minimum Distance between hooks		(mm)	295	310	335	405	550
Pull on lever to lift full load		(kgf)	15	20	18	38	39
		(N)	147	196	177	373	382
Dimensions	a	(mm)	148	148	163	191	191
	b	(mm)	128	128	148	181	244
	c	(mm)	295	310	335	405	550
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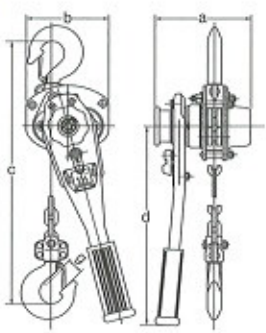
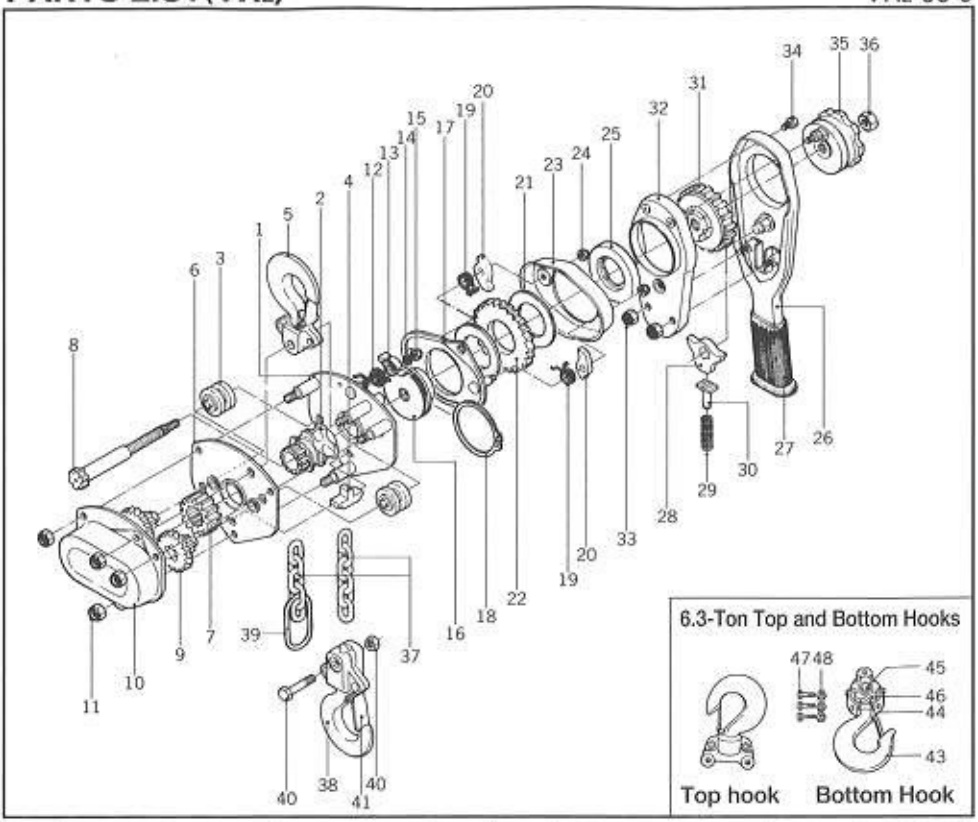


Hoists with the lift in other tengths are also available.



No.	Description	Parts No.	Quantity	No.	Description	Parts No.	Quantity
1	Side plate 1 assembly	L101a	1	22	Ratchet gear	L303	1
2	Load sheave	L203	1	23	Brake cover	L105	1
3	Load chain guide	L109	2	24	U-nut for B.C.	L912	2
4	Chain stripper	L110	1	25	Brake ring	L313	1
5	Top hook assembly	L701a	1	26	Lever body assembly	L414a	1
6	Side plate 2 assembly	L102a	1	27	Grip	L430	1
7	1st, gear	L206	1	28	Change pawl	LNA402-08	1
8	Pinion shaft	LV220	1	29	Push spring	L405	1
9	2nd and 3rd gear assembly	L207a	2	30	Push pin	L404	1
10	Gear cover	L108a	1	31	Change gear	L427	1
11	U-nut for gear cover	L911	4	32	Lever cover assembly	L417a	1
12	Retaining spring	L425	1	33	U-nut for L.C.	L913	2
13	Retaining pawl	L424	1	34	Bolt for L.C.	L419	2
14	Washer for pawl	L423	1	35	Grip ring	L428	1
15	U-nut for pawl	L912	1	36	Pinion nut	NS-10	1
16	Hub	LV314	1	37	Load chain	L820	1
17	Retaining plate assembly	L422a	1	38	Bottom hook assembly	L709a	1
18	Snap link for hub	L421	1	39	End	L746	1
19	Brake spring	L305	2	40	Bolt Nut for Load Chain	L705a	1
20	Brake pawl	L304	2	41	Safety Latch	L740a	1
21	Brake disc	L302	2	42			
6.3-Ton Level Parts							
43	Hook	L701	1	46	Idle Sheave	L725	1
44	Frame	L721	2	47	Bolt	L922	3
45	Axel	L726	1	48	Nut	UN-10	3