



Tiger

CE

WARNING

This hoist should not be installed, operated or maintained by any person who has not read all the contents of these General Instructions. Failure to read and comply with these instruction or any one of the limitation noted herein can result in serious bodily injury and / or property damage.

ETCB

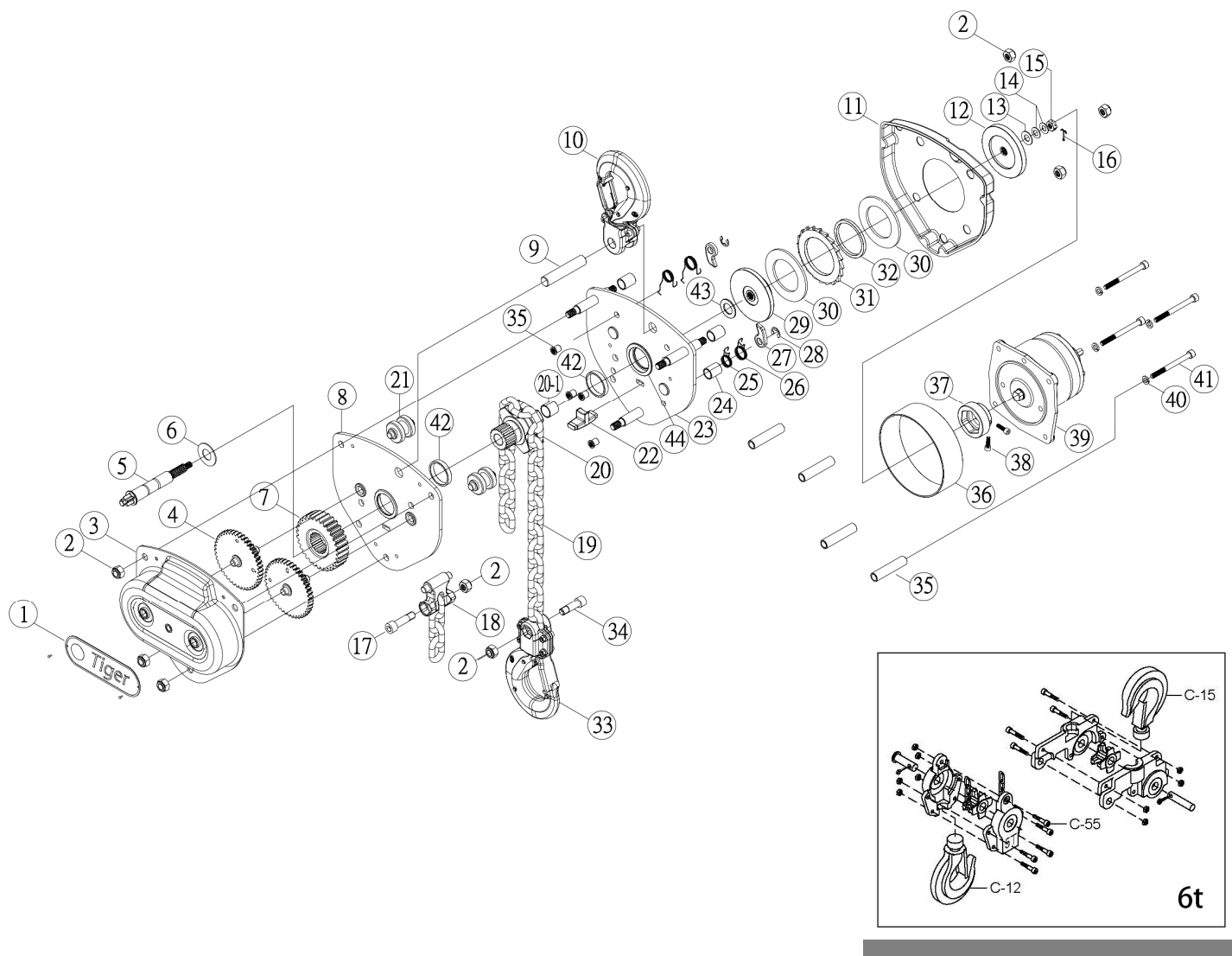
ETCB-0300 / ETCB-0600

User Manual (2023 v.1)

IMPORTANT REMARKS FOR ETCB

- 1) **Never use** electric or air – “ **Impact drivers**”.
- 2) We suggest to use the drill of **maximum 2500 rpm** to operate this unit.
- 3) We recommend at least 18V (cordless drill), minimum: 500W and suggest to use the brand/models of drill as below: (Makita / DDF486Z, Makita / DF001GZ)
- 4) If using a cordless drill, we also recommend to prepare a spare battery.
- 5) Before moving the ETCB, be sure to remove any drill from the Hoist.

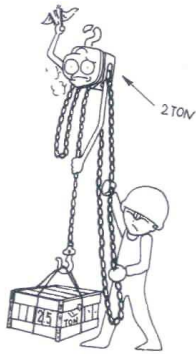
MODEL NO: ETCB-0300 / ETCB-0600



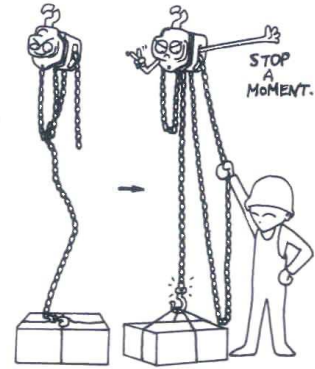
Part No.	Quantity	Part Name	Part No.	Quantity	Part Name	Part No.	Quantity	Part Name
1	1	Label	17	1	Chain-End-Fixing Pin	32	1	Ratchet Gear Ring (ETCB)
2	8	M12 Nut	18	1	Load Chain Anchoring	33	1	Bottom Hook Assembly
3	1	Gear Cover	19	1	Load Chain	34	1	Bottom Hook Pin
4	2	Pinion(with Pinion Gear)	20	1	Load Sheave (ETCB-Type)	35	4	Gear Box - Support tube
5	1	Pinion Shaft	20-1	1	DU-2020	36	1	Gear Box Cover Ring
6	1	Pinion Shaft Washer	21	2	Load Chain Guide	37	1	Coupling
7	1	Load Gear	22	1	Chain Stripper	38	2	Hex socket screw(M6x20)
8	1	Gear - Side Plate Assembly	23	1	Wheel-Side Plate Assembly	39	1	Gear Box
9	1	Top Hook Pin	24	3	R/G Cover Support tube	40	4	Spring Washer
10	1	Top Hook Assembly	25	2	Pawl Spring (small)	41	4	Hex socket screw(M8x90L)
11	1	Ratchet Gear Cover	26	2	Pawl Spring (large)	42	2	Load Sheave Ring (ETCB)
12	1	Driven disc	27	2	Pawl	43	1	Friction Flat Washer
13	1	Washer (DB-12H)	28	2	Snap Ring for Pawl Pin(E-10)	44	2	Load Sheave - Outternal Ring (ETCB)
14	2	Washer (DB-10H)	29	1	Disc Hub (ETCB-Type)	C-12	1	Bottom Hook Assembly (ETCB-0600)
15	1	Check Nut (3/8-16UNC)	30	2	Brake Disc	C-15	1	Top Hook Assembly (ETCB-0600)
16	1	Check Nut Pin (2.5x25)	31	1	Ratchet Gear (ETCB-Type)	C-55	1	Bottom Hook Pin (ETCB-0600)

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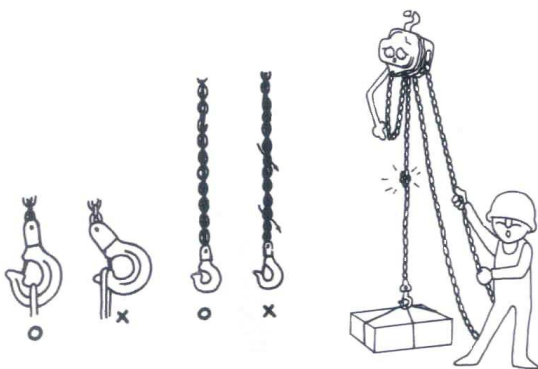
IMPORTANT REMARKS FOR OPERATORS INSPECTION



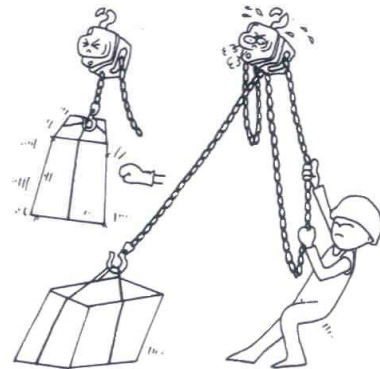
Do not overload your chain hoist.



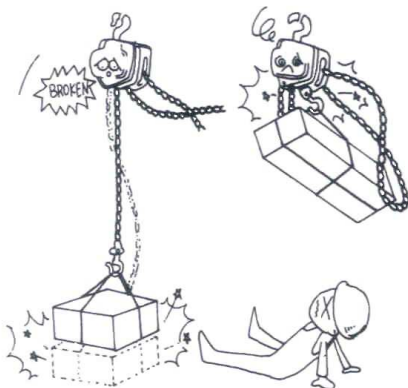
Do not give the load a sudden take-off. Take a breath when the load chain is just taut, and check for brake action by pulling up and down about 10cm above floor.



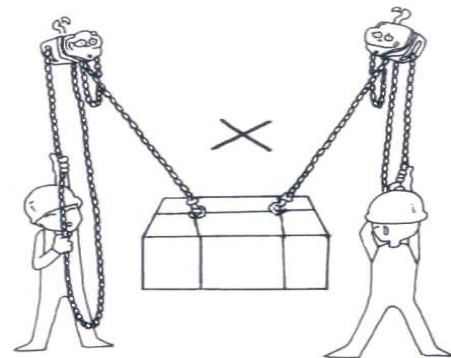
Do not use the chain with a kink.



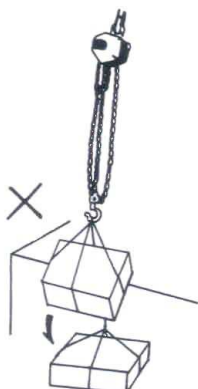
Do not drag load against floor.



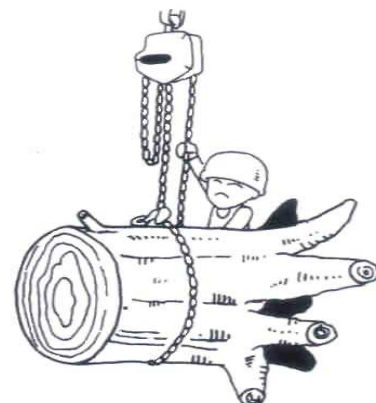
Do not raise too far or lower too fast.



Do not try to suspend a load with two hoists.



Never give a shock load to a hoist, even if the distance is very short.



Do not wrap the load chain around the load.

2 MAINTENANCE

After use, service the hoist before storing it. Servicing and repairs should only be carried out by qualified, competent, and responsible people.

- Clean the hoist thoroughly.
- Keep the hoist well-lubricated. Oil the load chain and hook shank.
- Store the hoist correctly against rain and moisture.

When the hoist is installed outdoors, exceptional care should be taken regarding maintenance.

4 CHAIN AND HOOKS

The hooks and load chains are made of special alloy-steels and are precisely heat-treated.

Never weld or heat-treat them again.

(a) Load Chain

The load chains are exceptionally long-wearing, but wear is unavoidable and certain conditions will cause wear and corrosion that will lessen the strength. Load chains worn beyond the permissible limits shown in the Table 1 must be replaced at once.

(b) Hooks

The hook opening will elongate with overloads and incorrect hooking. When the hook opening is elongated beyond the permissible limits shown in the Table 2, it is dangerously deformed and must be replaced immediately.

5 ALIGNMENT OF GEARS DURING REASSEMBLY

Model No.: ETCB-0300, ETCB-0600

Notice the marks "0" on the gears, place "0" mark face to sheave on horizontal centerline on right side, place the other "0" mark face to up direction on vertical centerline on left side as shown. (Figure 3)

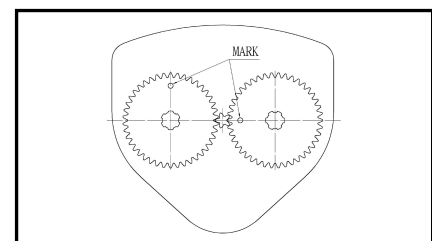


Figure 3

6 TEST CERTIFICATE

It is hereby certified that this product was manufactured under our single-unit control of quality and was passed with strict inspection in accordance with our inspection standards.

3 INSPECTION

Frequent Inspections-Visual Inspection by operator or other authorized person, and listening (while hoist operates) for unusual sounds which may indicate trouble.

Exception: Brakes require more than audio-visual inspection. Check frequently by operating hoist, with and without load, stopping at various positions to test holding power and observe amount of drift, if any.

To Adjust Brake:(See Fig.1)

A. Fully-tightened position.

B. Slack off slightly from Position A, and insert the cutter pin.

✱ Replace brake disc if thickness is less than 0.08 inch.

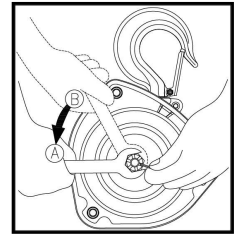


FIGURE 1

TABLE 1 CHAIN DIMENSIONS

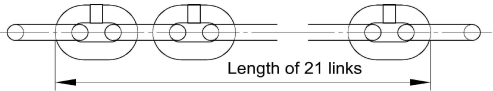
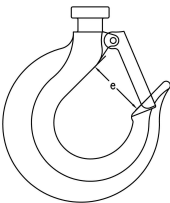
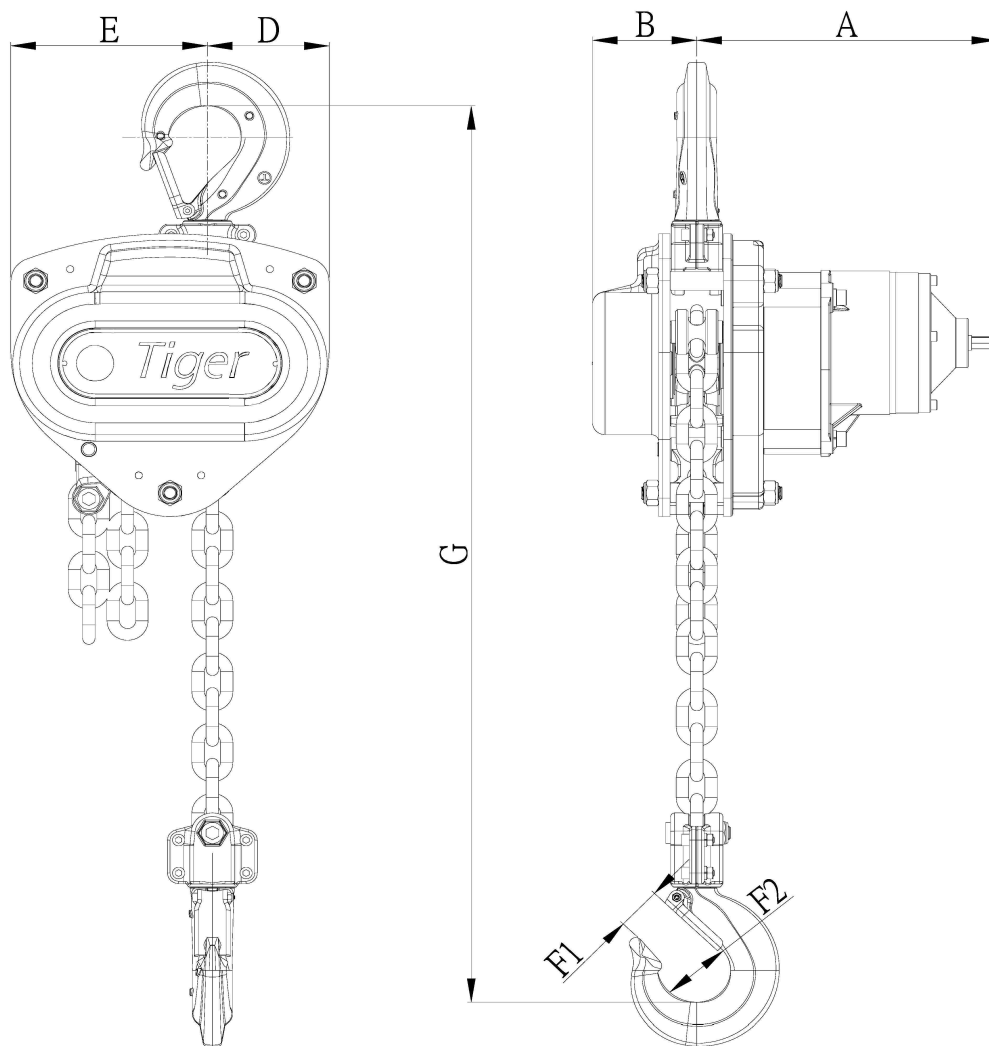
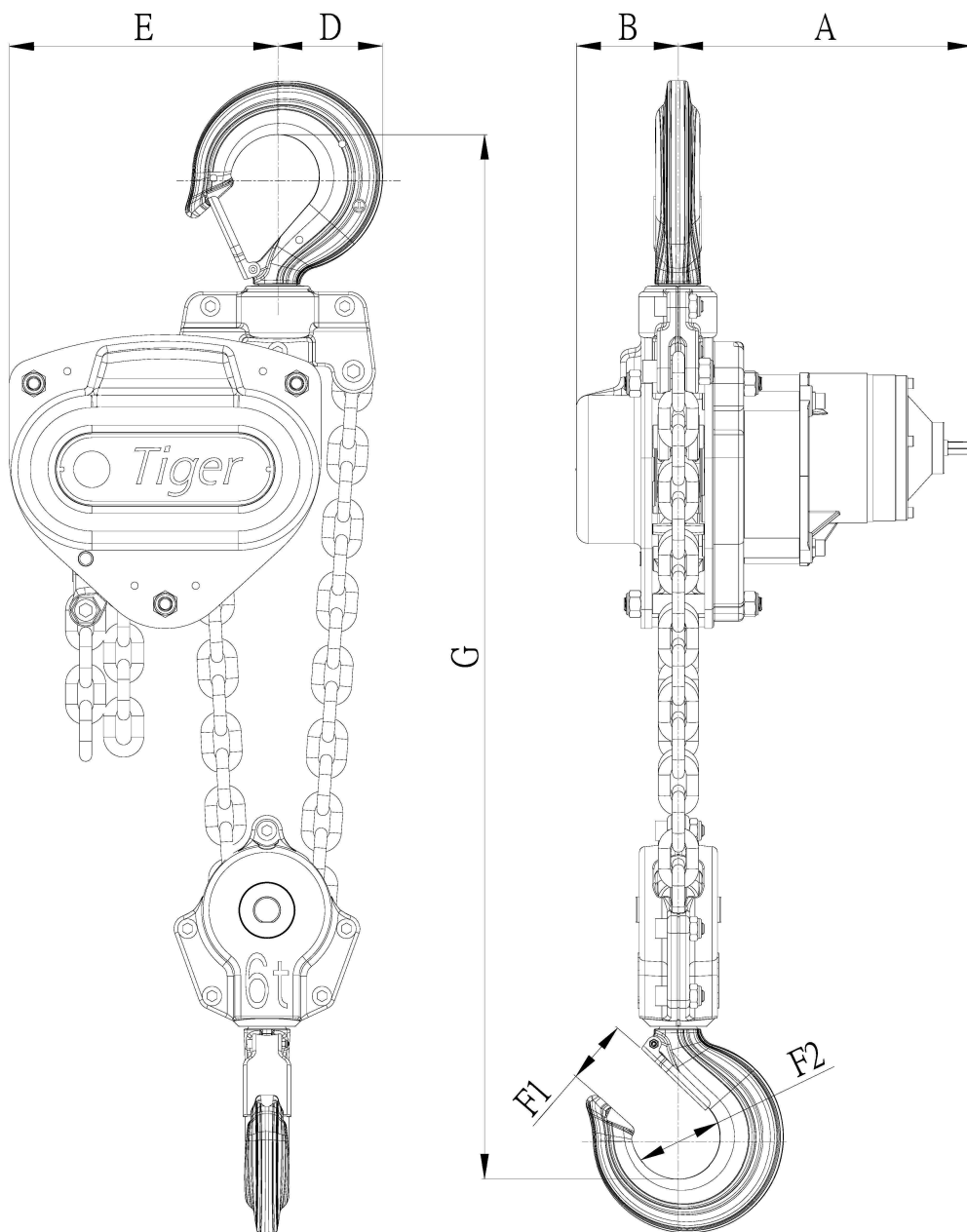
		
Model No.	Diameter of Chain Wire	Maximum Allowable Gauge Length
ETCB-0300 ETCB-0600	10.0mm	21 links=668.0mm

TABLE 2- HOOK THROAT OPENING

	Capacity t	Hook Throat Opening (mm)	
		e	
		Normal	Discard ≥
	3	42	47
	6	58	63.5



Model No.	Capacity (tonne)	A	B	D	E	F1	F2	G
ETCB-0300	3	240	84	98	157	36	56	500



Model No.	Capacity (tonne)	A	B	D	E	F1	F2	G
ETCB-0600	6	240	84	86	220	49	70	635