CHAIN BLOCK HOIST

SUMNER MATERIAL LIFTS

AN SFE GROUP BRAND

OPERATOR'S MANUAL

www.SUMNER.com

INTRODUCING THE S.F.E. GROUP

The **Specialized Fabrication Equipment Group** (in short: **S.F.E. Group**) was founded in 2019 after the merger of three world leading OEM's in the field of pipe fabrication tooling and machinery: B&B Pipe and Industrial Tools LLC (USA), Mathey Dearman Inc. (USA) and TAG Pipe Equipment Specialists (UK). In a time span of 5 years, another 4 renowned and market leading companies were acquired and added to the **S.F.E. Group** portfolio: Axxair (France, 2022), Magnatech (USA, 2023), Climax (USA, 2023) and SUMNER (USA, 2025).

The vision and philosophy of the **S.F.E. Group** is to offer globally a comprehensive innovative and cost-effective range of specialized fabrication, welding and machining equipment and derived rental solutions, for a wide range of applications within all critical industries, while optimizing performance, efficiency and safety.

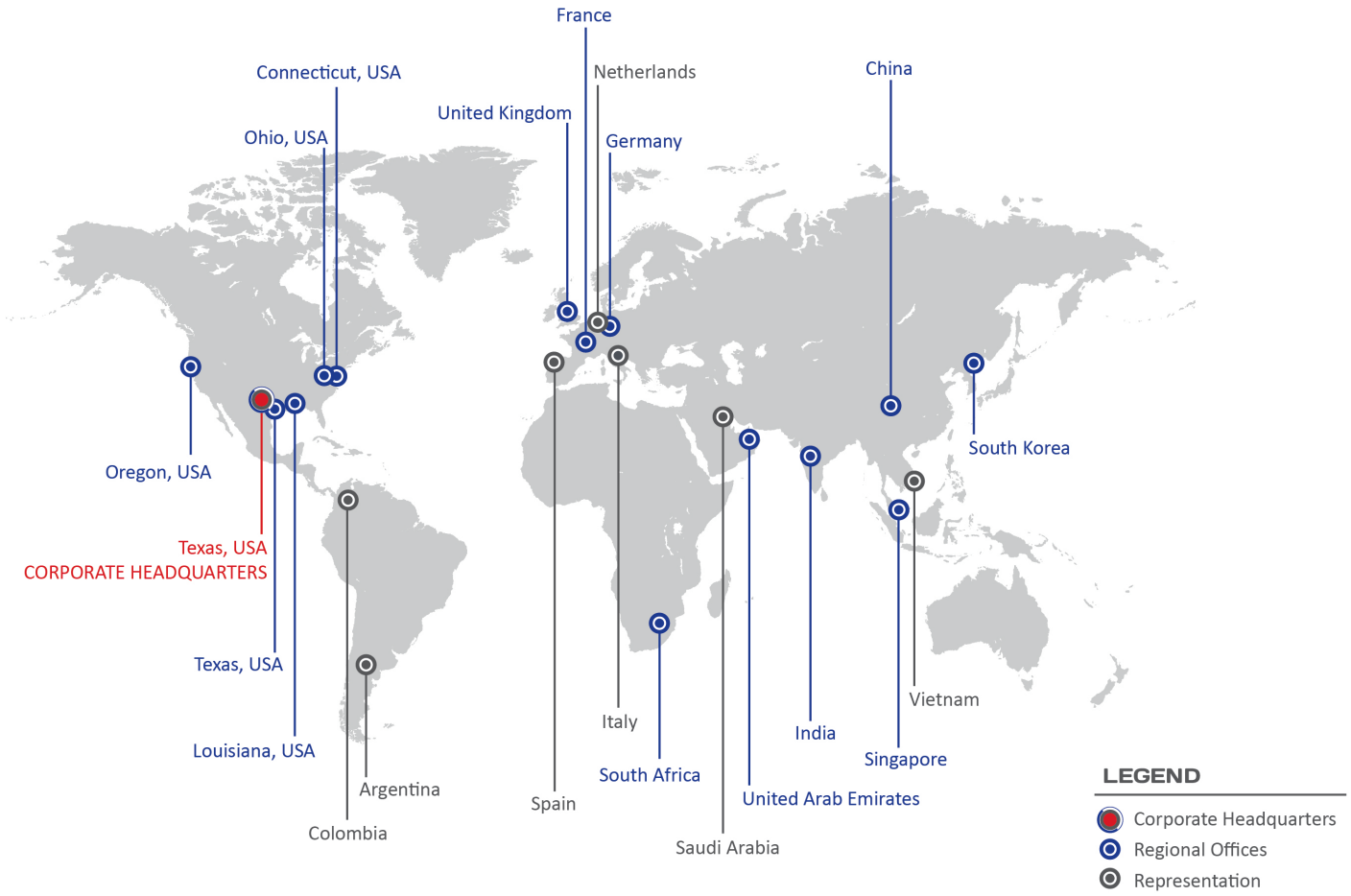
Leveraging over 200 years of combined experience in engineering, manufacturing, and field applications, the **S.F.E. Group** is committed to driving innovation. Through continuous product development and strategic acquisitions, the **S.F.E. Group** is actively growing its portfolio and expanding its global presence to meet the demands of industries around the world. Currently, the **S.F.E. Group** consists of 12 complimentary brands, each supporting the others in delivering cutting-edge solutions.

With offices and warehousing on 5 continents, 400+ employees and more than 500 partnerships and distributors worldwide, **S.F.E. Group** prides itself on consistently offering the highest standards of both product quality and service locally to all its customers.

S.F.E. Group looks forward to welcoming you into its global network as a partner, distributor or end user customer and remains at your disposal at any time.

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S.F.E. GROUP GLOBAL PRESENCE



INTRODUCING SUMNER MATERIAL LIFTS

SUMNER Material Lifts is a world leading brand in the material handling and construction industries, renowned for its innovative, durable, and user-friendly solutions. Founded in 1965 and now a part of the Specialized Fabrication Equipment Group (in short S.F.E. Group), **SUMNER Material Lifts** has built a global reputation for providing high-quality lifting equipment. Designed with safety and efficiency in mind, **SUMNER Material Lifts** products are widely used by professionals in mechanical contracting, plumbing, HVAC, welding, and electrical installation.

SUMNER Material Lifts' product line includes a broad range of lifting tools such as material lifts, duct lifts, Roust-A-Bouts, gantries, and heavy-duty hoists, all engineered to meet the demanding requirements of job sites around the world. All equipment is known for ease of use, robust construction, and industry-leading safety features, making it the preferred choice for both large-scale industrial projects and everyday construction needs.

With a long tradition of quality, reliability and value and a strong commitment to innovation and customer satisfaction, **SUMNER Material Lifts** continues to set the standard in lifting and material handling solutions.

In conjunction with all other S.F.E. Group portfolio's brands, **SUMNER Material Lifts** continues to lead the way in lifting and fabrication solutions, delivering tools that elevate the operator's standard of work.

SUMNER Material Lifts products are always nearby available within the S.F.E. Group global network and can be consulted on the dedicated website: www.SUMNER.com

INDUSTRIES SERVED

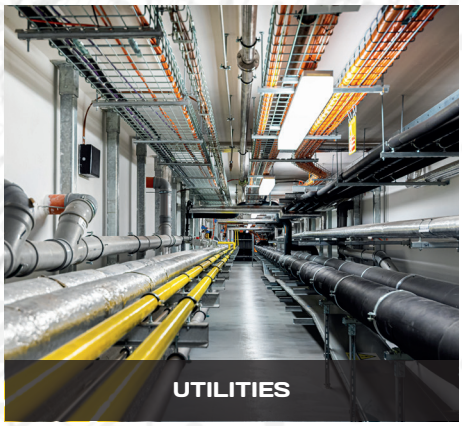

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Our group policy is one of continuous improvements and acquisitions. Products and data tables are subject to change and may vary from those illustrated. Copyright © 2025 Specialized Fabrication Equipment Group, All rights reserved.

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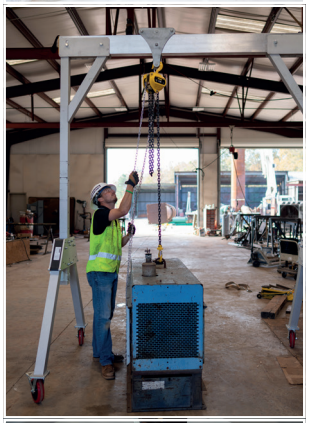
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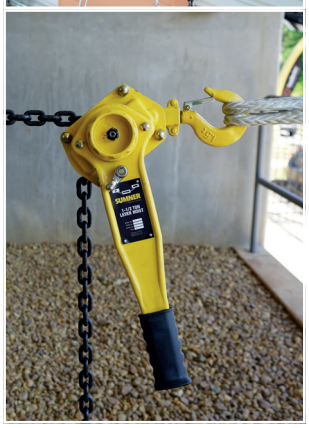
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SAFETY FIRST

Safety is essential in the use and maintenance of Sumner Equipment. This instruction manual and any markings on the tool provide information for avoiding hazards and unsafe practices related to the use of this tool. Observe all the safety information provided.

SAFETY ALERT SYMBOLS

These symbols are used to call attention to hazards or unsafe practices related that could result in injury or property damage. The three safety words defined below indicate the severity of the hazard. The message after the signal word provides information for preventing or avoiding the hazard.



DANGER - Immediate hazards that if not avoided **WILL** result in severe injury or death



WARNING - Hazards that if not avoided **COULD** result in severe injury or death



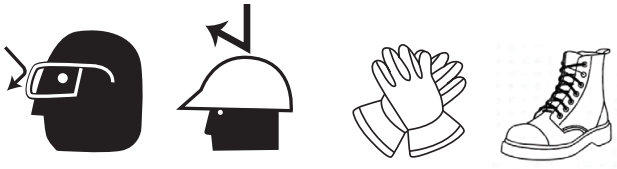
CAUTION - Hazards or unsafe practices that, if not avoided **MAY** result in severe injury or death



⚠ WARNING

• Read and understand all instructions and safety information in this manual before operating or servicing this tool.

FAILURE TO OBSERVE THESE WARNINGS COULD RESULT IN SEVERE INJURY OR DEATH



⚠ WARNING - Personal Safety Hazards

• Only qualified persons should use the Sumner Standard Chain Block Series CB Hoist.
• Wear eye protection, hard hat, cut resistant gloves and safety toe shoes when using this tool.
• Do not use tool while tired or under the influence of drugs, alcohol, or medication.
• Keep body parts and loose clothing away from moving parts.
• Always follow safety procedures as shown in this manual.

FAILURE TO OBSERVE THESE WARNINGS COULD RESULT IN SEVERE INJURY OR DEATH.

⚠ DANGER: Electrical Shock Hazards



• This is not an insulated tool, contact with live circuits could result in severe injury or death.

FAILURE TO OBSERVE THESE WARNINGS CAN RESULT IN SEVERE INJURY OR DEATH

⚠ WARNING: Entanglement Hazard



- Do not operate this tool while wearing loose fitting clothing. Retain long hair.

FAILURE TO OBSERVE THESE WARNINGS CAN RESULT IN SEVERE INJURY OR DEATH

⚠ WARNING: Tool Use Hazards

- Use this tool for the manufacturers intended purpose only. Use other than that described in this manual can result in injury or property damage.
- Only qualified personnel should configure and use the Sumner Chain Block Hoist.
- This hoist is designed and intended for use by properly trained and experienced personnel only. If you are not familiar with the proper and safe operation of a chain block hoist, do not use until proper training and knowledge have been obtained.
- Do not use to lift, support or transport people; or to lift or support loads over people.
- Do not exceed the rated capacity of the hoist.
- Do not use the chain as a sling. This may cause damage to the chain.
- Always inspect the hoist for damage prior to use. If hoist is damaged, do not use until it has been repaired or replaced.
- Do not use more than one hoist to lift or move a load. If this is unavoidable, each hoist must have the same capacity as the load to be moved.
- Never allow chain to “set” over sharp edges. All pulls or lifts must be made with straight chain that is free of obstacles.
- If the hoist is difficult to operate, then the load exceeds the capacity of the hoist. Reduce load or select a hoist of larger capacity.

IMPORTANT SAFETY INFORMATION

- Do not use hoist if the chain is twisted, kinked or damaged.
- Do not operate hoist unless load is centered between top and bottom hooks.
- On hoists with the overload warning lever, do not use this device to measure load weight.
- Always take time to study the job to be performed and choose the safest method. Do not place yourself or other people in an unsafe position.
- Always maintain your balance and firm footing when operating the lever hoist.
- Leave all internal maintenance and inspections to a qualified Sumner Service Center.
- Do not attempt to lengthen or repair load chain. Replace chain with factory replacement chain only. Do not use any other type of chain.
- If welding near the hoist, do not allow the chain or hook to be touched by a live electrode. Prevent weld splatter upon the chain.
- Never use the hoist if either hook is stretched, deformed, or has a broken or missing safety latch. Always replace the safety latch and/or the hook before placing the hoist back in service.
- Be sure supporting structures and load-attaching devices used in conjunction with this chain hoists provide an adequate safety factor to handle the rated load plus the weight of the equipment. If in doubt, consult a qualified structural engineer.
- Keep visitors a safe distance from the work area. Keep children away.
- Stand to one side of the load being lifted and make sure no one else is standing underneath when lifting a load. Should a load slip, it will descend at a high rate of speed and can cause serious injuries to anyone standing directly underneath.
- Understand and follow all procedures as set forth in American National Standards titled Performance Standard for Hand Chain Manually Operated Chain Hoists. ANSI/ASME HST-2; and “Overhead Hoists (Underhung),”ANSI/ASME B30.16. These standards are available through the American Society of Mechanical Engineers, www.ASME.org.

FAILURE TO OBSERVE THESE WARNINGS CAN RESULT IN SEVERE INJURY OR DEATH

⚠ CAUTION

- Do not use if any parts are damaged as this can cause an unsafe condition and lead to tool malfunction or failure.
- If tool is in disrepair, **DO NOT USE**. Have tool inspected and repaired or replaced prior to use.

FAILURE TO OBSERVE THESE CAUTIONS CAN RESULT IN INJURY OR PROPERTY DAMAGE

⚠WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to http://www.p65warnings.ca. gov.

Purpose of this Manual

This manual is intended to familiarize all personnel with the safe installation and operation of the following: STANDARD CHAIN BLOCK SERIES HOIST
Keep this manual available to all personnel. Replacement manuals are available upon request at no charge at www.sumner.com.

Description of Operation

This manual is provided by Sumner covering the safe operation and maintenance procedures for the Sumner Chain Block Series Hoists. This manual contains instructions on installation, safety precautions, general operating procedures, maintenance instructions and parts breakdown. This tool has been designed and constructed to provide consistent, long-term operation if used in accordance with instructions set forth in this manual.

The Chain Block Series Hoists are all steel construction with a powder coat finish and have a completely enclosed Weston-type automatic brake system.

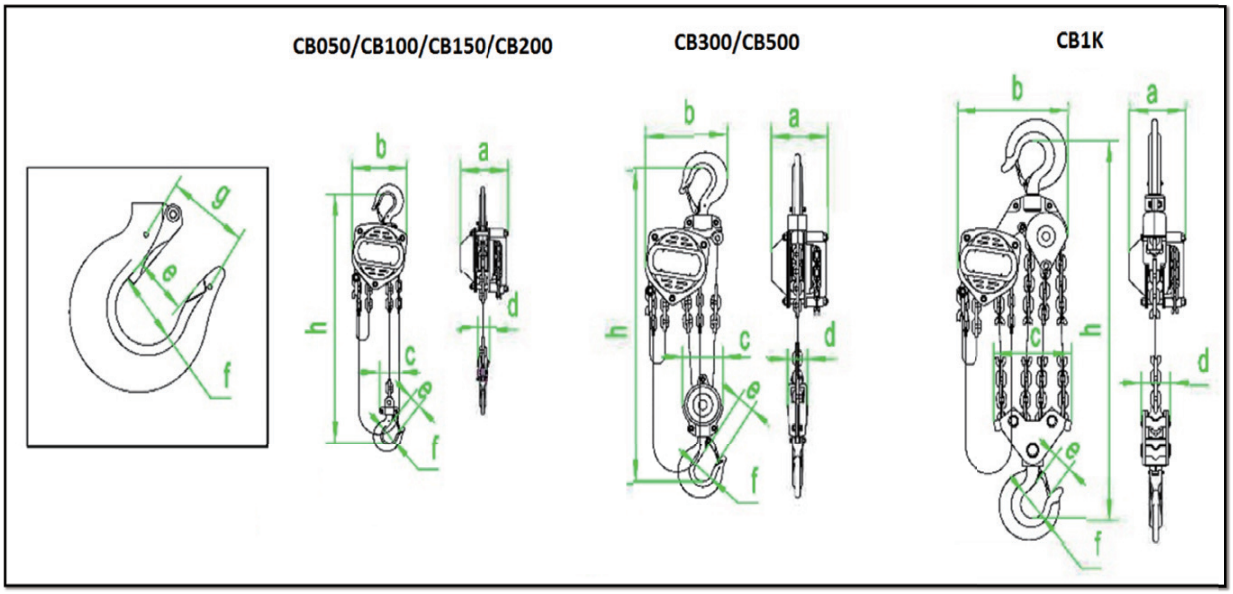
The Chain Block Series Hoists are proof-tested and comply with OSHA, ANSI/ASME B30.16 and HST-2 standards.

Description of Operation

If there are any questions or comments, please contact either your local supplier or Sumner Manufacturing. Sumner can also be reached at our web site: www.sumner.com.

The specifications in this manual were current at time of publication, but because of our policy of continuous improvement, Sumner reserves the right to change specifications at any time and without prior notice, without incurring obligations.

SPECIFICATIONS



Standard Chain Block Hoist .50 Ton through 10 Ton															
Stock Number	Model Number	Rated Capacity (Ton)	Std. Lift (ft.)	Min. Distance between hooks (in.) "h"	No. of falls	Load Chain (mm)	Pull to Rated Load (lb)	Body Depth (in.) "a"	Body Width (in.) "b"	Bottom Hook Mount Width (in.) "c"	Bottom Hook Mount Depth (in.) "d"	Hook Throat Opening (in.) "e"	Base Hook Opening (in.) "f"	Hook Opening Center Point (in.) "g"	Net Weight (lbs)
787558	CB050C10	0.50	10.00	11.02	1.00	5 x 15	49.23	4.92	5.11	1.69	0.98	1.06	1.25	1.37	17.16
787559	CB050C15	0.50	15.00	11.02	1.00	5 x 15	49.23	4.92	5.11	1.69	0.98	1.06	1.25	1.37	23.76
787560	CB050C20	0.50	20.00	11.02	1.00	5 x 15	49.23	4.92	5.11	1.69	0.98	1.06	1.25	1.37	30.36
787561	CB050C30	0.50	30.00	11.02	1.00	5 x 15	49.23	4.92	5.11	1.69	0.98	1.06	1.25	1.37	43.56
787562	CB100C10	1	10.00	12.04	1.00	6 x 18	57.10	5.27	6.10	2.00	1.18	1.29	1.57	1.77	24.86
787563	CB100C15	1	15.00	12.04	1.00	6 x 18	57.10	5.27	6.10	2.00	1.18	1.29	1.57	1.77	30.80
787564	CB100C20	1	20.00	12.04	1.00	6 x 18	57.10	5.27	6.10	2.00	1.18	1.29	1.57	1.77	36.74
787565	CB100C30	1	30.00	12.04	1.00	6 x 18	57.10	5.27	6.10	2.00	1.18	1.29	1.57	1.77	48.62
787566	CB150C10	2	10.00	14.48	1.00	8 x 24	78.90	5.94	6.81	2.51	1.33	1.31	1.65	1.85	33.88
787567	CB150C15	2	15.00	14.48	1.00	8 x 24	78.90	5.94	6.81	2.51	1.33	1.31	1.65	1.85	42.05
787568	CB150C20	2	20.00	14.48	1.00	8 x 24	78.90	5.94	6.81	2.51	1.33	1.31	1.65	1.85	50.23
787569	CB150C30	2	30.00	14.48	1.00	8 x 24	78.90	5.94	6.81	2.51	1.33	1.31	1.65	1.85	66.58
787570	CB200C10	2	10.00	17.51	1.00	8 x 24	91.04	6.18	7.28	2.51	1.33	1.45	1.81	2.04	38.28
787571	CB200C15	2	15.00	17.51	1.00	8 x 24	91.04	6.18	7.28	2.51	1.33	1.45	1.81	2.04	46.45
787572	CB200C20	2	20.00	17.51	1.00	8 x 24	91.04	6.18	7.28	2.51	1.33	1.45	1.81	2.04	54.63
787573	CB200C30	2	30.00	17.51	1.00	8 x 24	91.04	6.18	7.28	2.51	1.33	1.45	1.81	2.04	70.98
787574	CB300C10	3	10.00	20.47	2.00	8 x 24	82.28	6.18	9.25	3.93	2.20	1.71	2.04	2.46	53.46
787575	CB300C15	3	15.00	20.47	2.00	8 x 24	82.28	6.18	9.25	3.93	2.20	1.71	2.04	2.46	66.73
787576	CB300C20	3	20.00	20.47	2.00	8 x 24	82.28	6.18	9.25	3.93	2.20	1.71	2.04	2.46	80.00
787577	CB300C30	3	30.00	20.47	2.00	8 x 24	82.28	6.18	9.25	3.93	2.20	1.71	2.04	2.46	106.55
787578	CB500C10	5	10.00	23.62	2.00	10 x 30	86.55	7.08	10.31	4.96	2.91	2.00	2.36	3.07	84.70
787579	CB500C15	5	15.00	23.62	2.00	10 x 30	86.55	7.08	10.31	4.96	2.91	2.00	2.36	3.07	103.69
787580	CB500C20	5	20.00	23.62	2.00	10 x 30	86.55	7.08	10.31	4.96	2.91	2.00	2.36	3.07	122.68
787581	CB500C30	5	30.00	23.62	2.00	10 x 30	86.55	7.08	10.31	4.96	2.91	2.00	2.36	3.07	160.68
787582	CB1KC10	10	10.00	29.92	4.00	10 x 30	95.76	7.08	14.37	10.23	3.85	2.51	3.34		203.06
787583	CB1KC15	10	15.00	29.92	4.00	10 x 30	95.76	7.08	14.37	10.23	3.85	2.51	3.34		237.96
787584	CB1KC20	10	20.00	29.92	4.00	10 x 30	95.76	7.08	14.37	10.23	3.85	2.51	3.34		272.86
787585	CB1KC30	10	30.00	29.92	4.00	10 x 30	95.76	7.08	14.37	10.23	3.85	2.51	3.34		342.68

OPERATION

1. Support for the hoist may be hook, clevis pin, trolley, or beam clamp. Whatever method of suspension is chosen, the support components must be rated equal to, or greater than the capacity of the chain hoist.
2. If the chain hoist has not been used for an extended period of time, check for proper operation before putting into service.
3. The brake mechanism must be kept clean and free from dirt, water, and oil. Never allow oil to penetrate the brake mechanism. Always keep your chain hoist clean and store in a clean, dry location.
4. Although oiling the chain is not mandatory, a light coat of 30W oil applied periodically to the chain will create easier operation and prolong the life of the chain.
5. Check the chain for damage and elongation. Replace damaged chain before using the chain hoist.

NOTE: The load chain supplied with your Sumner chain hoist is designed, manufactured, and tested for proper fit and durability. Over a period of time, the chain may need to be replaced. For your own safety, use factory replacement chain only.

⚠WARNING: Use of other than factory replacement chain may cause serious injury and/or damage to the hoist.

6. The top and bottom hooks on your Sumner chainhoist are designed to open to warn of an overload. Both top and bottom hooks (1/2T to 5T models) have indicator points cast into the hook per FIG 1. The measurement between indicator points must fall below the limit shown in FIG 16. If it exceeds the limit, the hook must be replaced.

7. It is important to check top and bottom hooks for proper opening. If the safety latch no longer contacts the hook opening, replace the hook.

⚠WARNING: Never side load the top or bottom hook; this practice is dangerous and could lead to serious injury.

8. If the vertical angle at the neck of the bottom or top hook reaches 10° per FIG 2, replace the hook.

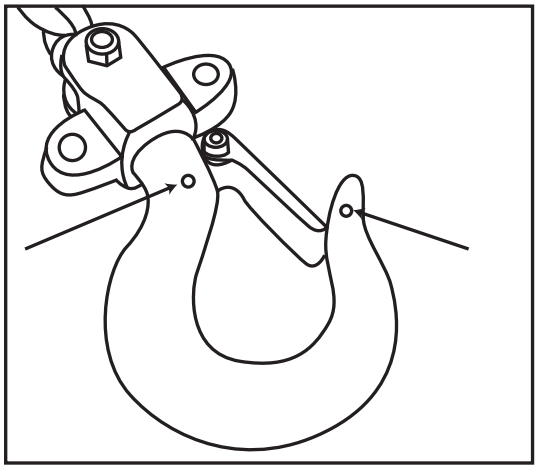


FIG 1

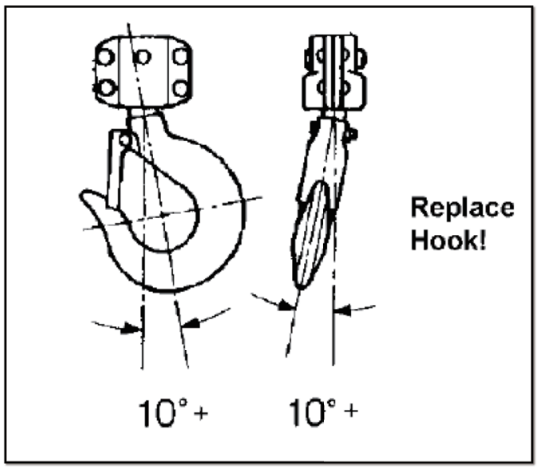


FIG 2

HOOKING SECURING

1. Secure the upper hook.
2. Place the bottom hook securely into the object to be lifted.
3. Place ropes or chain in the center of the bottom hook, making sure the safety latch is secure. Never load the hook in front of the safety latch. See FIG 3.

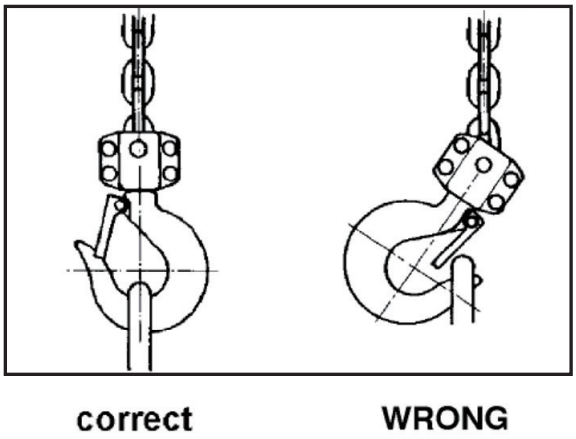


FIG 3

1. Avoid lifting one load with two hoists. If this is unavoidable, apply equal weight to both hoists and use hoists with the proper lift capacity. Capacity of each hoist must be equal to the total load to be lifted.
2. Check that the chain is not twisted at the bottom hook. All welds should face the same direction FIG 4.
3. For hoists with two or more falls of chain, make sure the bottom hook is not capsized (turned over). This may cause the chain to twist.

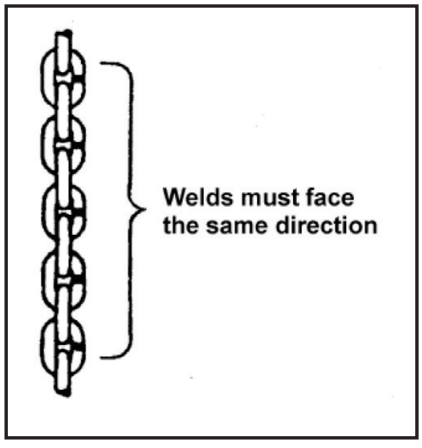


FIG 4

LOAD RAISING

To raise load, pull right side of hand chain (A, FIG 5) so that wheel turns clockwise. To lower load, pull left side of hand chain (B, FIG 5) so that wheel turns counterclockwise.
NOTE: Make sure hoist has an adequate length of load chain to raise or lower the load in a safe manner. Do not attempt to lower hoist beyond its limit.

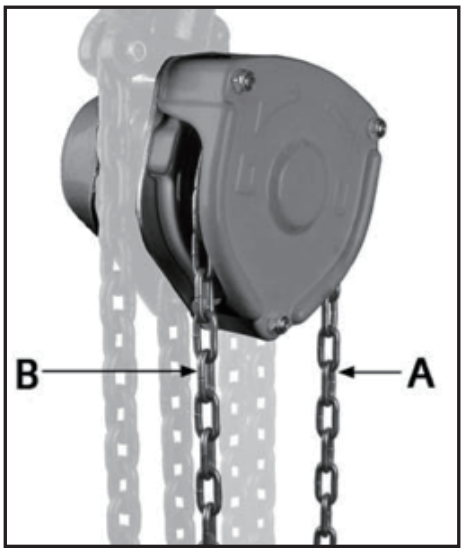


FIG 5

HAND CHAIN LENGTH ADJUSTMENT

To cut hand chain in order to lengthen or shorten:

1. Insert one link lengthwise into a vise (FIG 6). Be sure that the side opposite the weld lies completely below surface of vise jaw (about 1/3 of a link). This prevents nicking or cutting the lower part of the link.
2. Using a hack saw, cut through upper part of link at the weld.
3. Loosen the link, reposition link vertically at edge of vise with the level of the cut above the vise jaw (FIG 7).
4. Tighten vise jaw.
5. Using an adjustable wrench, twist the link horizontally from front to back (FIG 8). Open just far enough to insert (or remove) a second chain link.

HAND CHAIN LENGTH ADJUSTMENT

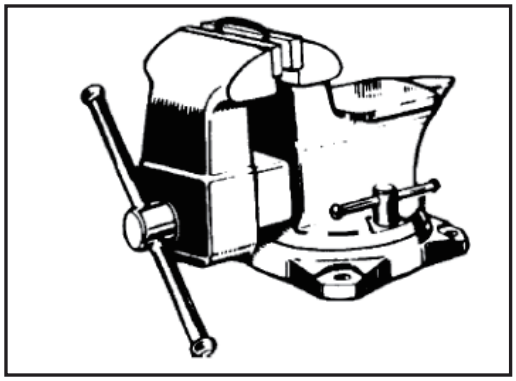


FIG 6

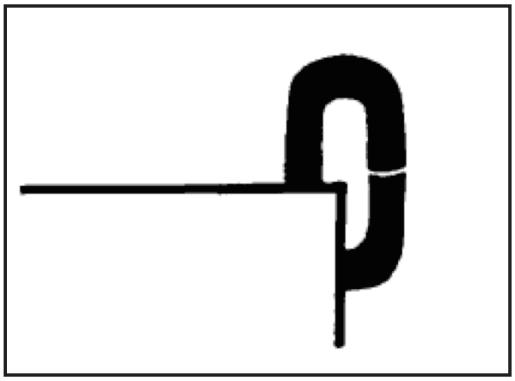


FIG 7

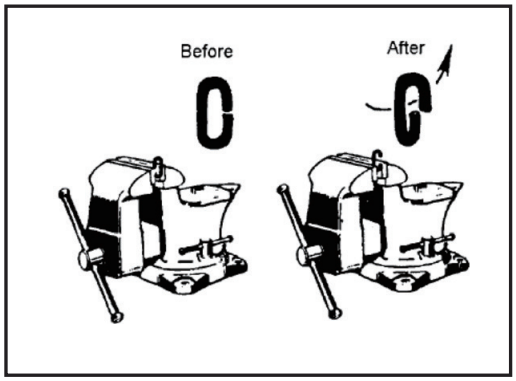


FIG 8

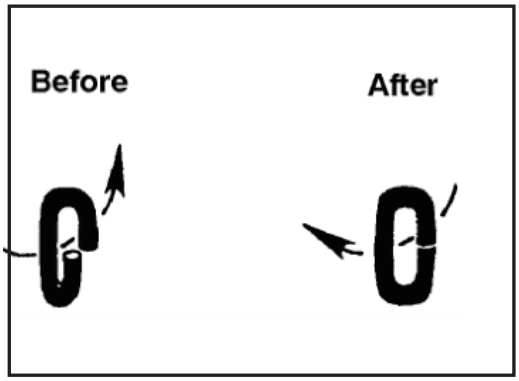


FIG 9

NOTE: Chain length is now ready to lengthen or shorten.

6. Insert (or remove) the second end link at the opening in the first end link.

7. Using an adjustable wrench, twist the link horizontally until the link is in the original closed position. See FIG 9.

⚠ **CAUTION: Do not push the link inward from the curved ends. This will distort the link. Check that the link is closed and free of twist.**

8. If installing entire new chain, insert end of hand chain into groove at top of hand chain wheel (see FIG 11). Rotate handwheel and pull chain through.

9. Re-weld the link at the cut.

10. Grind off excess on weld so that it is smooth.

⚠ **WARNING:** Do not operate the hoist with a twisted, kinked or damaged load chain. Do not splice the load chain. Check the chain for excessive wear or stretch. Failure to comply may cause serious injury.

REMOVAL AND REPLACEMENT OF LOAD CHAIN

LOAD CHAIN INSPECTION

Over time, the load chain will wear or elongate. This can cause damage to the hoist, breakage, or non-engagement of the load sheave.

⚠WARNING: Do not operate the hoist with a twisted, kinked or damaged load chain. Do not splice load chain. Check the chain for excessive wear or stretch. Failure to comply may cause serious injury.

To inspect the load chain for wear:

1. Test the hoist under load in both the lifting and lowering directions, observing the operation of chain and sprockets. Chain should feed smoothly into and away from the sprockets.
2. If the chain binds, jumps, or is noisy, make sure it is clean and properly lubricated. If the trouble persists, inspect the chain and mating parts for wear, distortion, or other damage.
3. Clean the chain before inspection. Examine for gouges, nicks, weld splatter, corrosion, and distorted links. Slacken the chain and move adjacent links to one side, looking for wear at the contact points. If you see wear or suspect stretching, measure the chain as explained in FIG 15. If chain matches or exceeds the limit shown in the table, replace the load chain before using the hoist.

⚠WARNING: Do not add to the load chain. Replace entire chain. Failure to comply may cause serious injury.

LOAD CHAIN REMOVAL

Remove old load chain as follows while referring to FIG 10:

1. Remove split pin (A) and pin stopper (B) on the chain anchor C), allowing the end of the load chain to fall free.
2. Pull the hand chain (FIG 5) until load chain is completely removed from gear assembly.

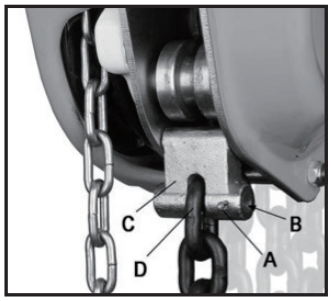


FIG 10

LOAD CHAIN INSPECTION

Install new load chain onto load chain sprocket as follows, referring to FIG 11:

1. Position the load chain sprocket (E) by rotating hand chain wheel (F) so that the wide and narrow grooves show.
2. Insert the load chain into the sprocket grooves so that chain will wind up and back over the sprocket. Welds must face away from the sprocket.
3. Rotate hand chain wheel so that load chain falls six to eight inches at back of sprocket. Referring to FIG 10:
4. Insert one end of chain link (D) into chain anchor (C).
5. Insert pin stopper (B) through chain anchor (C) and chain link (D) and secure with split pin (A).

Continue to Chain Installation that applies to your hoist.

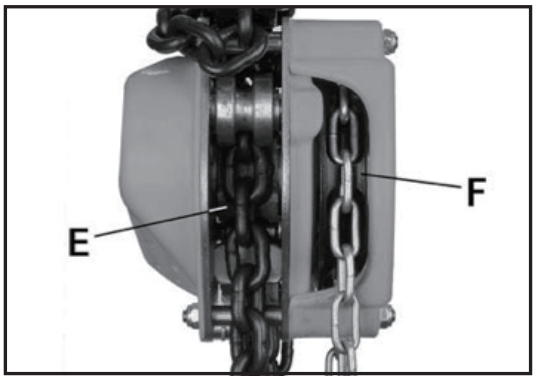


FIG 11

Completing Load Chain Installation

The following procedure assumes that the load chain has been attached to the chain anchor and fed through the load chain sprocket as described in the previous section. This procedure will complete the load chain and bottom hook installation.

REMOVAL AND REPLACEMENT OF LOAD CHAIN

Chain Installation: 0.5T thru 2T

Refer to FIG 12

1. Remove lock nut and bolt (D) from lower hook.
2. Insert the last chain link (C) into lower hook slot.
3. Re-insert bolt through lower hook slot and chain link.
4. Install lock nut onto bolt and tighten.

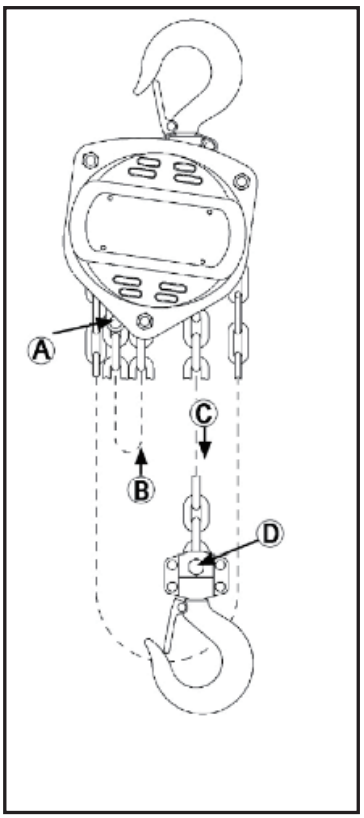


FIG 12

Chain Installation: 3T and 5T

Refer to FIG 13

1. After installing the load chain into load chain sprocket (B), run the remaining chain through your hand to remove any twist. The last link of the chain must be in the same direction as the first. If not, cut off the last link.
2. Insert the last link into pulley of lower hook (C).
3. Pull load chain through and up from underside of pulley (C, D).
4. Remove lock nut and chain anchor pin in upper hook slot (E).

5. Insert the last link into upper hook slot.
6. Check that load chain is not twisted.
7. Reinstall chain anchor pin through upper hook slot and last chain link, and secure with the lock nut.

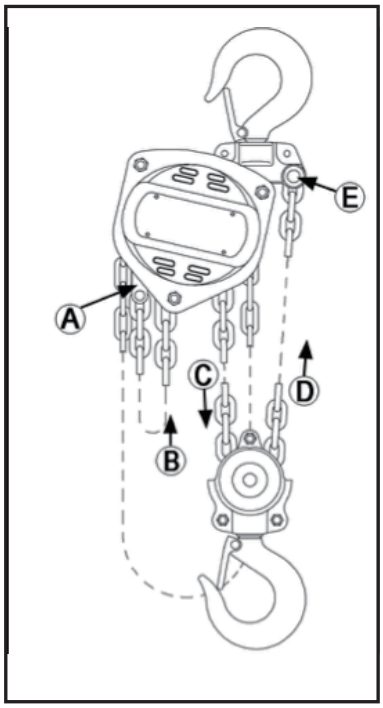


FIG 13

Chain Installation: 10T

Refer to FIG 14

1. After installing load chain into load chain sprocket (B), run the remaining chain through your hand to remove any twist. The last link of the chain must be in the same direction as the first. If not, cut off the last link.
2. Insert the last link into the left pulley of the lower hook (C).
3. Pull the load chain through and up from underside of the pulley (C, D).
4. Insert the last link into the pulley of the upper hook (D), moving the chain up, around, and then down (E). Check that the load chain is not twisted, and welds face away from the pulley.
5. To prevent the chain from free-wheeling, insert a screwdriver securely into a link at the base of the upper pulley (left side).

6. Insert the last link into the right pulley of the lower hook (E).
7. Pull the load chain through and up from the underside of the pulley (E, F).
8. Remove the lock nut and chain anchor pin in upper hook slot (G).
9. Insert the last link into the upper hook slot.
10. Check that load chain is not twisted.
11. Reinstall chain anchor pin through upper hook slot and last chain link, and secure with lock nut.
12. Remove screwdriver from link at base of upper pulley.

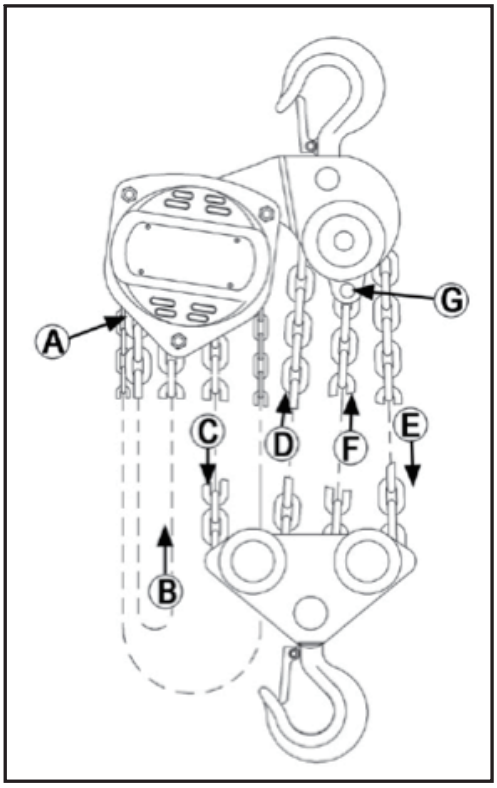


FIG14

INSPECTION AND MAINTENANCE

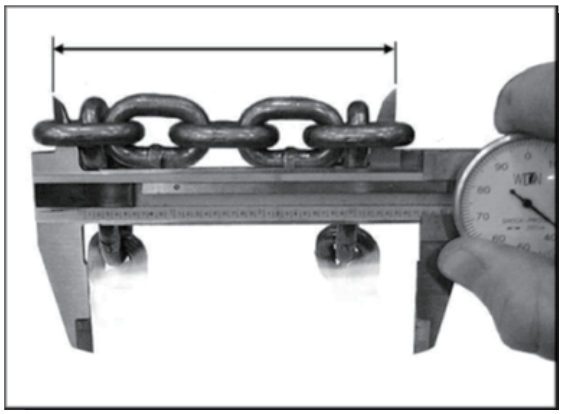
Read and follow ANSI Inspection and Maintenance Instructions. Know the meaning of Frequent Inspection, Periodic Inspection, Normal Service, Heavy Service, and Severe Service. It is the customer's responsibility to understand and follow all ANSI and Sumner inspection and maintenance instructions.

⚠WARNING: All repairs and adjustments are to be performed by trained and experienced personnel using procedures that are approved for the hoist system being serviced.
⚠WARNING: All safety related deficiencies discovered in the inspection are to be corrected before the hoist is placed back into service.
⚠WARNING: Check for internal damage whenever external damage has occurred. Failure to comply may cause serious injury.

1. Clean hoist after each use and oil lightly.
2. Do not drop or drag the hoist.
3. Store the hoist in a clean and dry environment.
4. Chain oiling is not mandatory but will increase the life of the chain.
5. Leave all repairs and adjustments of internal parts to qualified repair personnel.
6. Inspect the load chain and the lower hook after lifting a maximum weight load.
7. This hoist uses special alloy hoisting chain and does not interchange with any other manufacturer. All replacement chain must be purchased from your Sumner distributor or from Sumner directly by calling 1-281-999-6900.
8. Check and inspect the brake system frequently.
9. Annually, the hoist should be disassembled, inspected, and cleaned by trained and experienced personnel only. Contact a Sumner authorized service center by calling your dealer or visiting our web site at www.sumner.com.
10. After servicing, test the hoist with no load, then test the hoist with a load.

LOAD AND WEAR LIMITS
ALLOY STEEL CHAIN:

Carefully inspect entire load chain. As illustrated in FIG 15 and table below, measure five consecutive links with calipers to measure the length. Check every three feet and especially where excessive wear is indicated. Any load chain that shows noticeable deformation or heat influence must be replaced with a new one. Never extend load chain by welding a second piece to the original.

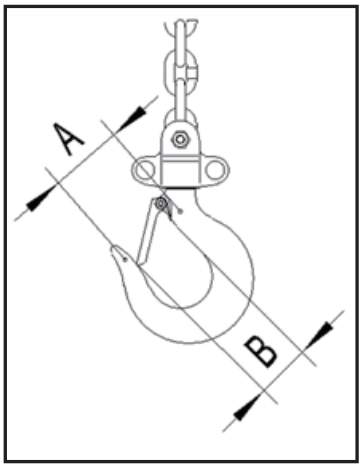


Capacity	5 Links Normal (in)	5 Links Limit (in)
0.5 ton	2.95"	3.04"
1 ton	3.54"	3.65"
1.5 ton	4.72"	4.86"
2 ton	4.72"	4.86"
3 ton	4.72"	4.86"
5 ton	5.91"	6.09"
10 ton	5.91"	6.09"

FIG15

HOOK WEAR LIMITS (TOP and BOTTOM)

Replace hook when “A” measurement is equal to or greater than the “A” Limit in FIG 16 and the table below. Never heat treat the hook or attach anything to the hook by welding.

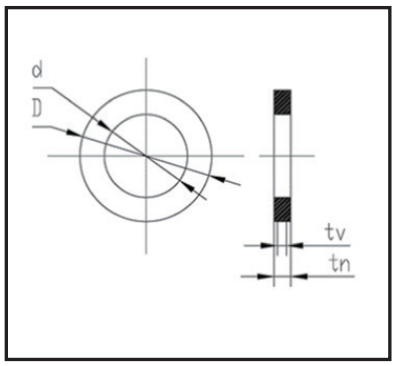


Capacity	“A” Norm	“A” Limit	“B” Norm	“B” Limit
0.5 ton	1.36"	1.50"	–	–
1 ton	1.77"	1.95"	–	–
1.5 ton	1.86"	2.05"	–	–
2 ton	2.05"	2.26"	–	–
3 ton	2.45"	2.70"	–	–
5 ton	3.06"	3.37"	–	–
10 ton	3.54"	3.89"	2.52"	2.77"

FIG16

BRAKE DISK

Refer to FIG 17 and chart below for Replacement limits of the disk brake.



Capacity	D	d	tn	tv
	(in)	(in)	(in)	(in)
0.5 ton	1.54"	0.87"	0.10"	0.08"
1 ton	2.36"	1.20"	0.08"	0.06"
1.5 ton	2.68"	1.40"	0.08"	0.06"
2 ton	2.68"	1.40"	0.08"	0.06"
3 ton	2.68"	1.40"	0.08"	0.06"
5 ton	3.35"	1.79"	0.10"	0.08"
10 ton	3.35"	1.79"	0.10"	0.08"

d= inner diameter
D= outer diameter
tn= normal measurement
tv= replacement limit

FIG17

TIMING MARKS FOR GEAR REPLACEMENT

• If the gears on the Chain Block Hoist need replacement or removal for any reason, make sure they are re-installed correctly. (FIG 18) shows the proper orientation of the timing marks when meshing the gears.

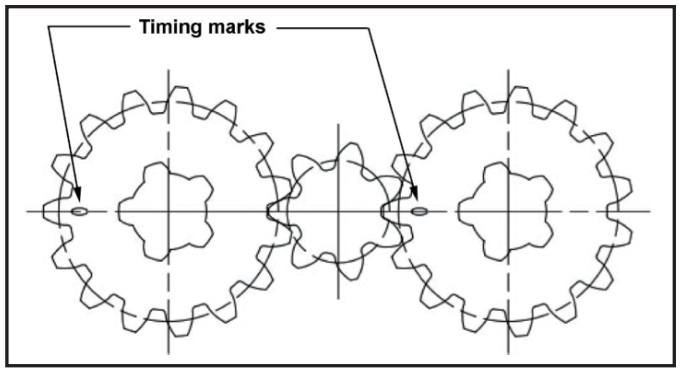


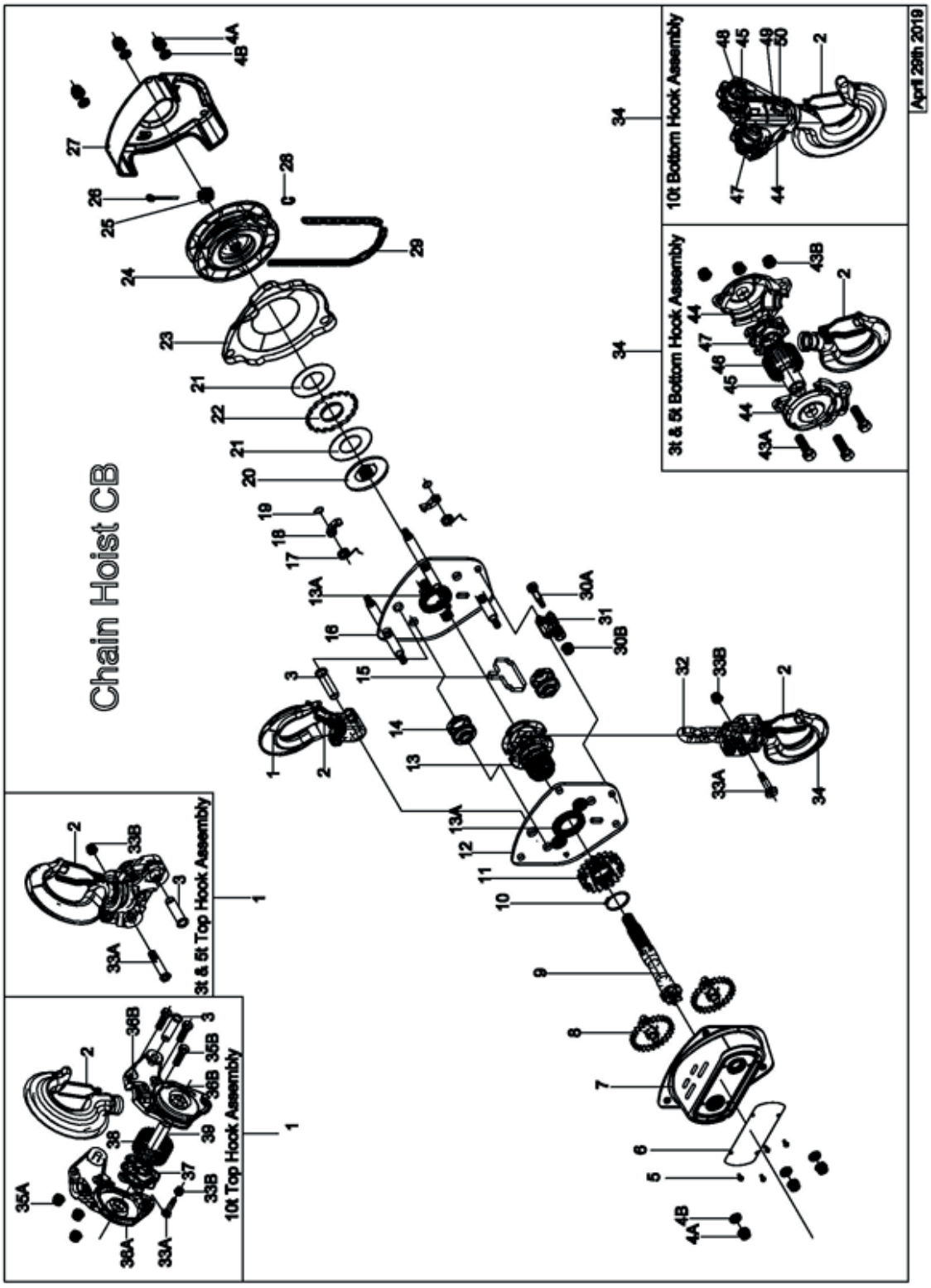
FIG18

REPLACEMENT PARTS

Replacement parts are listed on the following pages. To order parts or reach our service department, call 1-281-999-6900 Monday through Friday (see our website for business hours, www.sumner.com). Having the Model Number and Serial Number of your hoist available when you call will allow us to serve you quickly and accurately.

Non-proprietary parts, such as fasteners, can be found at local hardware stores. McMaster- Carr reference numbers are provided for hardware specifications. Some parts are shown for reference only and may not be available individually.

CB050 THROUGH BC1K – EXPLODED VIEW



PARTS LIST

CB050	Quantity	Stock #	Reference	MODEL	DESCRIPTION	UPC
1	1	788658		TB050-1	Top Hook Assembly	661165886580
2	2	788659		TB050-2	Safety Latch Assembly	661165886597
3	1	788660		TB050-3	Top Hook Shaft	661165886603
	0					
4A	6	788277	McMaster 99164A102	TB300-4A	Acorn Nut = High-Strength Steel Cap Nut, Class 10, Zinc-Plated, M8 x 1.25 mm Thread	661165882773
	0					
4B	6	788276	McMaster 91202A238	TB300-4B	Lock Washer = Zinc-Plated Steel Split Lock Washer for M8 Screw Size, 8.5 mm ID, 14.8 mm OD	661165882766
	0					
5	4	788310	McMaster 97358A101	K500-1	Rivet = Low-Profile Flat Head Solid Rivets, 0.119" Diameter, for 0.16" Maximum Material Thickness	661165883107
	0					
6	1	788661		TB050-6	Name Plate	661165886610
	0					
7	1	788662		TB050-7	Gear Cover Assmebly	661165886627
	0					
8	2	788663		TB050-8	Spur Gear Assembly	661165886634
	0					
9	1	788664		TB050-9	Drive Shaft	661165886641
	0					
10	1	788665	McMaster 98541A122	K025-37	Snap Ring = External Retaining Ring for 18 mm OD, Black-Phosphate 1060-1090 Spring Steel	661165886658
	0					
11	1	788666		TB050-11	Load Gear	661165886665
	0					
12	1	788667		TB050-12	Gear Side Plate Assembly	661165886672
	0					
13	1	788668		TB050-13	Load Sheave	661165886689
	0					
13A	2	788669		TB050-13A	Caged Roller Bearings	661165886696
	0					
14	2	788670		TB050-14	Guide Roller	661165886702
	0					
15	1	788671		TB050-15	Stripper	661165886719
	0					
16	1	788672		TB050-16	Wheel Side Plate Assembly	661165886726
	0					
17	2	788673		TB050-17	Pawl Spring	661165886733
	0					
18	2	788674		TB050-18	Pawl	661165886740
	0					
19	2	788675	McMaster 90967A110	TB050-19	Snap Ring = External Retaining Ring for 6 mm OD, DIN 1.4122 Stainless Steel	661165886757
	0					
20	1	788645		TB100-20	Disc Hub	661165886450
	0					
21	2	788676		TB050-21	Friction Disc	661165886764
	0					
22	1	788677		TB050-22	Ratchet Disc	661165886771
	0					
23	1	788678		TB050-23	Dust Cover	661165886788
	0					
24	1	788679		TB050-24	Hand Chain Wheel	661165886795
	0					
25	1	788349	McMaster 93760A222	K300-26	Pinion Nut - Castle Nut Steel Locknut for Use with Cotter Pins, Medium-Strength, Class 8, M8 x 1.25 mm Thread	661165883497
	0					
26	1	788680	McMaster 98350A160	K050-11	Split Pin = Cotter Pin, Zinc-Plated Steel, 2mm Diameter, 20mm Long	661165886801
	0					
27	1	788681		TB050-27	Hand Wheel Cover Assembly	661165886818
	0					
28	1	788552		Φ5x25x17	Connecting Link	661165885521
	0					
29	As Req'd Per Foot	788552		Φ5x25x17	Hand Chain	661165885521
30A	1	788682		TB050-30A	Internal hexagonal screw	661165886825
	0					
30B	1	788303	McMaster 90576A115	TB050-30B	Lock Nut	661165883039
	0					

CB050	Quantity	Stock #	Reference	MODEL	DESCRIPTION	UPC
31					Anchor Plate	
	As Req'd Per Foot					
	1	788303	McMaster 90576A115	TB050-30B	Lock Nut = Medium-Strength Steel Nylon-Insert Locknut, Class 8, Zinc-Plated, M6 x 1 mm Thread	661165883039
34	1	788686		TB050-33	Bottom Hook Assembly	661165886863
35A	0				Lock Nut	
35B	0				Socket Head Cap Screw	
36	0				Top Hook Holder	
36A	0				Left Top Hook Holder	
36B	0				Right Top Hook Holder	
37	0				Top Idle Sheave	
	0					
38	0				Roller Pin	
	0					
39	0				Top Idle Shaft	
40	0				Slotted baffle	
40A	0				Hexagon Socket Head Cap Screw	
40B	0				Lock Washer	
41	0				Hook Shaft	
42	0				Slotted baffle	
42A	0				Hexagon Socket Head Cap Screw	
42B	0				Lock Washer	
43A	0				Socket Head Cap Screw	
	0					
43B	0				Lock Nut	
	0					
44	0				Bottom Hook Holder	
	0					
45	0				Bottom Idle Shaft	
	0					
46	0				Roller Pin	
	0					
	0					
	0					
47	0				Bottom Idle Sheave	
	0					
	0					
48	0				Snap Ring	
49	0				Snap Ring	
50	0				Bottom Hook Shaft	

CB100	Quantity	Stock #	Reference	MODEL	DESCRIPTION	UPC
1	1	788629		TB100-1	Top Hook Assembly	661165886290
2	2	788630		TB100-2	Safety Latch Assembly	661165886306
3	1	788631		TB100-3	Top Hook Shaft	661165886313
	0					
4A	6	788277	McMaster 99164A102	TB300-4A	Acorn Nut = High-Strength Steel Cap Nut, Class 10, Zinc-Plated, M8 x 1.25 mm Thread	661165882773
	0					
4B	6	788276	McMaster 91202A238	TB300-4B	Lock Washer = Zinc-Plated Steel Split Lock Washer for M8 Screw Size, 8.5 mm ID, 14.8 mm OD	661165882766
	0					
5	4	788310	McMaster 97358A101	K500-1	Rivet = Low-Profile Flat Head Solid Rivets, 0.119" Diameter, for 0.16" Maximum Material Thickness	661165883107
	0					
6	1	788632		TB100-6	Name Plate	661165886320
	0					
7	1	788633		TB100-7	Gear Cover Assmebly	661165886337
	0					
8	2	788634		TB100-8	Spur Gear Assembly	661165886344
	0					
9	1	788635		TB100-9	Drive Shaft	661165886351
	0					
10	1	788636	McMaster 90967A241	TB100-10	Snap Ring = External Retaining Ring for 22 mm OD, DIN 1.4122 Stainless Steel	661165886368
	0					
11	1	788637		TB100-11	Load Gear	661165886375
	0					
12	1	788638		TB1000-12	Gear Side Plate Assembly	661165886382
	0					
13	1	788639		TB100-13	Load Sheave	661165886399
	0					
13A	2	788302		YAL075-29	Caged Roller Bearings	661165883022
	0					
14	2	788640		TB100-14	Guide Roller	661165886405
	0					
15	1	788641		TB100-15	Stripper	661165886412
	0					
16	1	788642		TB100-16	Wheel Side Plate Assembly	661165886429
	0					
17	2	788643		TB100-17	Pawl Spring	661165886436
	0					
18	2	788644		TB100-18	Pawl	661165886443
	0					
19	2	788636	McMaster 90967A115	TB100-10	Snap Ring = External Retaining Ring for 7 mm OD, DIN 1.4122 Stainless Steel	661165886368
	0					
20	1	788645		TB100-20	Disc Hub	661165886450
	0					
21	2	788646		TB100-21	Friction Disc	661165886467
	0					
22	1	788647		TB100-22	Ratchet Disc	661165886474
	0					
23	1	788648		TB100-23	Dust Cover	661165886481
	0					
24	1	788649		TB100-24	Hand Chain Wheel	661165886498
	0					
25	1	788650	McMaster 93760A233	K500-26	Pinion Nut	661165886504
	0					
26	1	788651	McMaster 98350A215	TB100-26	Split Pin = Cotter Pin, Zinc-Plated Steel, 2.5mm Diameter, 25mm Long	661165886511
	0					
27	1	788652		TB100-27	Hand Wheel Cover Assembly	661165886528
	0					
28	1	788552		Φ5x25x17	Connecting Link	661165885521
	0					
29	As Req'd Per Foot	788552		Φ5x25x17	Hand Chain	661165885521
30A	1	788653		TB100-30A	Internal hexagonal screw	661165886535
	0					
30B	1	788344	McMaster 90576A115	TB100-30B	Lock Nut = Medium-Strength Steel Nylon-Insert Locknut, Class 8, Zinc-Plated, M6 x 1 mm Thread	661165883442
	0					
31	1	788654		TB100-31	Anchor Plate	661165886542
	0					

CB100	Quantity	Stock #	Reference	MODEL	DESCRIPTION	UPC
32	As Req'd Per Foot	788655		Ø6x18	Load Chain	661165886559
33A	1	788656		TB100-33A	Load Pin	661165886566
33B	1	788303	McMaster 90576A115	TB050-30B	Lock Nut = Medium-Strength Steel Nylon-Insert Locknut, Class 8, Zinc-Plated, M6 x 1 mm Thread	661165883039
34	1	788934		TB100-33	Bottom Hook Assembly	661165889345
35A	0				Lock Nut	
35B	0				Socket Head Cap Screw	
36	0				Top Hook Holder	
36A	0				Left Top Hook Holder	
36B	0				Right Top Hook Holder	
37	0				Top Idle Sheave	
	0					
38	0				Roller Pin	
	0					
39	0				Top Idle Shaft	
40	0				Slotted baffle	
40A	0				Hexagon Socket Head Cap Screw	
40B	0				Lock Washer	
41	0				Hook Shaft	
42	0				Slotted baffle	
42A	0				Hexagon Socket Head Cap Screw	
42B	0				Lock Washer	
43A	0				Socket Head Cap Screw	
	0					
43B	0				Lock Nut	
	0					
44	0				Bottom Hook Holder	
	0					
45	0				Bottom Idle Shaft	
	0					
46	0				Roller Pin	
	0					
	0					
	0					
47	0				Bottom Idle Sheave	
	0					
	0					
48	0				Snap Ring	
49	0				Snap Ring	
50	0				Bottom Hook Shaft	

CB150	Quantity	Stock #	Reference	MODEL	DESCRIPTION	UPC
1	1	788936		TB150-1	Top Hook Assembly	661165889369
2	2	788937		TB150-2	Safety Latch Assembly	661165889376
3	1	788578		TB300-3	Top Hook Shaft	661165885781
	0					
4A	6	788277	McMaster 99164A102	TB300-4A	Acorn Nut = High-Strength Steel Cap Nut, Class 10, Zinc-Plated, M8 x 1.25 mm Thread	661165882773
	0					
4B	6	788276	McMaster 91202A238	TB300-4B	Lock Washer = Zinc-Plated Steel Split Lock Washer for M8 Screw Size, 8.5 mm ID, 14.8 mm OD	661165882766
	0					
5	4	788310	McMaster 97358A101	K500-1	Rivet = Low-Profile Flat Head Solid Rivets, 0.119" Diameter, for 0.16" Maximum Material Thickness	661165883107
	0					
6	1	788938		TB150-6	Name Plate	661165889383
	0					
7	1	788580		TB300-7	Gear Cover Assmebly	661165885804
	0					
8	2	788581		TB300-8	Spur Gear Assembly	661165885811
	0					
9	1	788582		TB300-9	Drive Shaft	661165885828
	0					
10	1	788583	McMaster 98541A130	K300-37	Snap Ring = External Retaining Ring for 28 mm OD, Black-Phosphate 1060-1090 Spring Steel	661165885835
	0					
11	1	788584		TB300-11	Load Gear	661165885842
	0					
12	1	788585		TB300-12	Gear Side Plate Assembly	661165885859
	0					
13	1	788586		TB300-13	Load Sheave	661165885866
	0					
13A	2	788587		TB200-13A	Caged Roller Bearings	661165885873
	0					
14	2	788588		TB300-14	Guide Roller	661165885880
	0					
15	1	788589		TB300-15	Stripper	661165885897
	0					
16	1	788590		TB300-16	Wheel Side Plate Assembly	661165885903
	0					
17	2	788591		TB300-17	Pawl Spring	661165885910
	0					
18	2	788592		TB300-18	Pawl	661165885927
	0					
19	2	788593	McMaster 98541A116	TB300-19	Snap Ring = External Retaining Ring for 8 mm OD, Black-Phosphate 1060-1090 Spring Steel	661165885934
	0					
20	1	788594		TB300-20	Disc Hub	661165885941
	0					
21	2	788595		TB300-21	Friction Disc	661165885958
	0					
22	1	788596		TB300-22	Ratchet Disc	661165885965
	0					
23	1	788597		TB300-23	Dust Cover	661165885972
	0					
24	1	788598		TB300-24	Hand Chain Wheel	661165885989
	0					
25	1	788599	McMaster 93760A317	TB300-25	Pinion Nut = Steel Locknut for Use with Cotter Pins, Medium-Strength, Class 8, M12 x 1.75 mm Thread	661165885996
	0					
26	1	788600	McMaster 98350A270	TB300-26	Split Pin = Cotter Pin, Zinc-Plated Steel, 3.2mm Diameter, 25mm Long	661165886009
	0					
27	1	788601		TB300-27	Hand Wheel Cover Assembly	661165886016
	0					
28	1	788552		Φ5x25x17	Connecting Link	661165885521
	0					
29	As Req'd Per Foot	788552		Φ5x25x17	Hand Chain	661165885521
30A	1	788602		TB300-30A	Internal hexagonal screw	661165886023
	0					
30B	1	788380	McMaster 90576A118	TB300-30B	Lock Nut = Medium-Strength Steel Nylon-Insert Locknut, Class 8, Zinc-Plated, M10 x 1.5 mm Thread	661165883800
	0					
31	1	788603		TB300-31	Anchor Plate	661165886030
	0					

CB150	Quantity	Stock #	Reference	MODEL	DESCRIPTION	UPC
32	As Req'd Per Foot	788604		Ø8X24	Load Chain	661165886047
33A	1	788627		TB200-33A	Load Pin	661165886276
33B	1	788344	McMaster 90576A118	TB100-30B	Lock Nut = Medium-Strength Steel Nylon-Insert Locknut, Class 8, Zinc-Plated, M10 x 1.5 mm Thread	661165883442
34	1	788934		TB150-33	Bottom Hook Assembly	661165889345
35A	0				Lock Nut	
35B	0				Socket Head Cap Screw	
36	0				Top Hook Holder	
36A	0				Left Top Hook Holder	
36B	0				Right Top Hook Holder	
37	0				Top Idle Sheave	
	0					
38	0				Roller Pin	
	0					
39	0				Top Idle Shaft	
40	0				Slotted baffle	
40A	0				Hexagon Socket Head Cap Screw	
40B	0				Lock Washer	
41	0				Hook Shaft	
42	0				Slotted baffle	
42A	0				Hexagon Socket Head Cap Screw	
42B	0				Lock Washer	
43A	0				Socket Head Cap Screw	
	0					
43B	0				Lock Nut	
	0					
44	0				Bottom Hook Holder	
	0					
45	0				Bottom Idle Shaft	
	0					
46	0				Roller Pin	
	0					
	0					
	0					
47	0				Bottom Idle Sheave	
	0					
	0					
48	0				Snap Ring	
49	0				Snap Ring	
50	0				Bottom Hook Shaft	

CB200	Quantity	Stock #	Reference	MODEL	DESCRIPTION	UPC
1	1	788613		TB200-1	Top Hook Assembly	661165886139
2	2	788614		TB200-2	Safety Latch Assembly	661165886146
3	1	788615		TB200-3	Top Hook Shaft	661165886153
	0					
4A	6	788323	McMaster 99164A103	TB500-4A	Acorn Nut = High-Strength Steel Cap Nut, Class 10, Zinc-Plated, M10 x 1.5 mm Thread	661165883237
	0					
4B	6	788322	McMaster 91202A242	TB500-4B	Lock Washer = Zinc-Plated Steel Split Lock Washer for M10 Screw Size, 10.7 mm ID, 18.1 mm OD	661165883220
	0					
5	4	788310	McMaster 97358A101	K500-1	Rivet = Low-Profile Flat Head Solid Rivets, 0.119" Diameter, for 0.16" Maximum Material Thickness	661165883107
	0					
6	1	788616		TB200-6	Name Plate	661165886160
	0					
7	1	788617		TB200-7	Gear Cover Assmebly	661165886177
	0					
8	2	788618		TB200-8	Spur Gear Assembly	661165886184
	0					
9	1	788619		TB200-9	Drive Shaft	661165886191
	0					
10	1	788583	McMaster 98541A130	K300-37	Snap Ring = External Retaining Ring for 28 mm OD, Black-Phosphate 1060-1090 Spring Steel	661165885835
	0					
11	1	788620		TB200-11	Load Gear	661165886207
	0					
12	1	788621		TB200-12	Gear Side Plate Assembly	661165886214
	0					
13	1	788622		TB200-13	Load Sheave	661165886221
	0					
13A	2	788587		TB200-13A	Caged Roller Bearings	661165885873
	0					
14	2	788588		TB300-14	Guide Roller	661165885880
	0					
15	1	788589		TB300-15	Stripper	661165885897
	0					
16	1	788623		TB200-16	Wheel Side Plate Assembly	661165886238
	0					
17	2	788591		TB300-17	Pawl Spring	661165885910
	0					
18	2	788592		TB300-18	Pawl	661165885927
	0					
19	2	788593	McMaster 98541A116	TB300-19	Snap Ring = External Retaining Ring for 8 mm OD, Black-Phosphate 1060-1090 Spring Steel	661165885934
	0					
20	1	788594		TB300-20	Disc Hub	661165885941
	0					
21	2	788595		TB300-21	Friction Disc	661165885958
	0					
22	1	788596		TB300-22	Ratchet Disc	661165885965
	0					
23	1	788624		TB200-23	Dust Cover	661165886245
	0					
24	1	788625		TB200-24	Hand Chain Wheel	661165886252
	0					
25	1	788599	McMaster 93760A317	TB300-25	Pinion Nut = Steel Locknut for Use with Cotter Pins, Medium-Strength, Class 8, M12 x 1.75 mm Thread	661165885996
	0					
26	1	788600	McMaster 98350A270	TB300-26	Split Pin = Cotter Pin, Zinc-Plated Steel, 3.2mm Diameter, 25mm Long	661165886009
	0					
27	1	788626		TB200-27	Hand Wheel Cover Assembly	661165886269
	0					
28	1	788552		Φ5x25x17	Connecting Link	661165885521
	0					
29	As Req'd Per Foot	788552		Φ5x25x17	Hand Chain	661165885521
30A	1	788602		TB300-30A	Internal hexagonal screw	661165886023
	0					
30B	1	788380	McMaster 90576A118	TB300-30B	Lock Nut = Medium-Strength Steel Nylon-Insert Locknut, Class 8, Zinc-Plated, M10 x 1.5 mm Thread	661165883800
	0					
31	1	788603		TB300-31	Anchor Plate	661165886030
	0					

CB200	Quantity	Stock #	Reference	MODEL	DESCRIPTION	UPC
32	As Req'd Per Foot	788604		Ø8X24	Load Chain	661165886047
33A	1	788627		TB200-33A	Load Pin	661165886276
33B	1	788380	McMaster 90576A118	TB300-30B	Lock Nut = Medium-Strength Steel Nylon-Insert Locknut, Class 8, Zinc-Plated, M10 x 1.5 mm Thread	661165883800
34	1	788628		TB200-33	Bottom Hook Assembly	661165886283
35A	0				Lock Nut	
35B	0				Socket Head Cap Screw	
36	0				Top Hook Holder	
36A	0				Left Top Hook Holder	
36B	0				Right Top Hook Holder	
37	0				Top Idle Sheave	
	0					
38	0				Roller Pin	
	0					
39	0				Top Idle Shaft	
40	0				Slotted baffle	
40A	0				Hexagon Socket Head Cap Screw	
40B	0				Lock Washer	
41	0				Hook Shaft	
42	0				Slotted baffle	
42A	0				Hexagon Socket Head Cap Screw	
42B	0				Lock Washer	
43A	0				Socket Head Cap Screw	
	0					
43B	0				Lock Nut	
	0					
44	0				Bottom Hook Holder	
	0					
45	0				Bottom Idle Shaft	
	0					
46	0				Roller Pin	
	0					
	0					
	0					
47	0				Bottom Idle Sheave	
	0					
	0					
48	0				Snap Ring	
49	0				Snap Ring	
50	0				Bottom Hook Shaft	

CB300	Quantity	Stock #	Reference	MODEL	DESCRIPTION	UPC
1	1	788576		TB300-1	Top Hook Assembly	661165885767
2	2	788577		TB300-2	Safety Latch Assembly	661165885774
3	1	788578		TB300-3	Top Hook Shaft	661165885781
	0					
4A	6	788277	McMaster 99164A102	TB300-4A	Acorn Nut = High-Strength Steel Cap Nut, Class 10, Zinc-Plated, M8 x 1.25 mm Thread	661165882773
	0					
4B	6	788276	McMaster 91202A238	TB300-4B	Lock Washer = Zinc-Plated Steel Split Lock Washer for M8 Screw Size, 8.5 mm ID, 14.8 mm OD	661165882766
	0					
5	4	788310	McMaster 97358A101	K500-1	Rivet = Low-Profile Flat Head Solid Rivets, 0.119" Diameter, for 0.16" Maximum Material Thickness	661165883107
	0					
6	1	788579		TB300-6	Name Plate	661165885798
	0					
7	1	788580		TB300-7	Gear Cover Assmebly	661165885804
	0					
8	2	788581		TB300-8	Spur Gear Assembly	661165885811
	0					
9	1	788582		TB300-9	Drive Shaft	661165885828
	0					
10	1	788583	McMaster 98541A130	K300-37	Snap Ring = External Retaining Ring for 28 mm OD, Black-Phosphate 1060-1090 Spring Steel	661165885835
	0					
11	1	788584		TB300-11	Load Gear	661165885842
	0					
12	1	788585		TB300-12	Gear Side Plate Assembly	661165885859
	0					
13	1	788586		TB300-13	Load Sheave	661165885866
	0					
13A	2	788587		TB200-13A	Caged Roller Bearings	661165885873
	0					
14	2	788588		TB300-14	Guide Roller	661165885880
	0					
15	1	788589		TB300-15	Stripper	661165885897
	0					
16	1	788590		TB300-16	Wheel Side Plate Assembly	661165885903
	0					
17	2	788591		TB300-17	Pawl Spring	661165885910
	0					
18	2	788592		TB300-18	Pawl	661165885927
	0					
19	2	788593	McMaster 98541A116	TB300-19	Snap Ring = External Retaining Ring for 8 mm OD, Black-Phosphate 1060-1090 Spring Steel	661165885934
	0					
20	1	788594		TB300-20	Disc Hub	661165885941
	0					
21	2	788595		TB300-21	Friction Disc	661165885958
	0					
22	1	788596		TB300-22	Ratchet Disc	661165885965
	0					
23	1	788597		TB300-23	Dust Cover	661165885972
	0					
24	1	788598		TB300-24	Hand Chain Wheel	661165885989
	0					
25	1	788599	McMaster 93760A317	TB300-25	Pinion Nut = Steel Locknut for Use with Cotter Pins, Medium-Strength, Class 8, M12 x 1.75 mm Thread	661165885996
	0					
26	1	788600	McMaster 98350A270	TB300-26	Split Pin = Cotter Pin, Zinc-Plated Steel, 3.2mm Diameter, 25mm Long	661165886009
	0					
27	1	788601		TB300-27	Hand Wheel Cover Assembly	661165886016
	0					
28	1	788552		Φ5x25x17	Connecting Link	661165885521
	0					
29	As Req'd Per Foot	788552		Φ5x25x17	Hand Chain	661165885521
30A	1	788602		TB300-30A	Internal hexagonal screw	661165886023
	0					
30B	1	788380	McMaster 90576A118	TB300-30B	Lock Nut = Medium-Strength Steel Nylon-Insert Locknut, Class 8, Zinc-Plated, M10 x 1.5 mm Thread	661165883800
	0					

CB300	Quantity	Stock #	Reference	MODEL	DESCRIPTION	UPC
31	1	788603		TB300-31	Anchor Plate	661165886030
	0					
32	As Req'd Per Foot	788604		Ø8X24	Load Chain	661165886047
33A	1	788605		TB300-33A	Load Pin	661165886054
33B	1	788303	McMaster 90576A115	TB050-30B	Lock Nut = Medium-Strength Steel Nylon-Insert Locknut, Class 8, Zinc-Plated, M6 x 1 mm Thread	661165883039
34	1	788606		TB300-33	Bottom Hook Assembly	661165886061
35A	0				Lock Nut	
35B	0				Socket Head Cap Screw	
36	0				Top Hook Holder	
36A	0				Left Top Hook Holder	
36B	0				Right Top Hook Holder	
37	0				Top Idle Sheave	
	0					
38	0				Roller Pin	
	0					
39	0				Top Idle Shaft	
40	0				Slotted baffle	
40A	0				Hexagon Socket Head Cap Screw	
40B	0				Lock Washer	
41	0				Hook Shaft	
42	0				Slotted baffle	
42A	0				Hexagon Socket Head Cap Screw	
42B	0				Lock Washer	
43A	1	788607	McMaster 91280A534	K300-53	Hex Head Cap Screw = Medium-Strength Class 8.8 Steel Hex Head Screw, Zinc-Plated, M8 x 1.25 mm Thread, 25 mm Long	661165886078
	2	788608	McMaster 91280A630	TB300-43A	Hex Head Cap Screw = Medium-Strength Class 8.8 Steel Hex Head Screw, Zinc-Plated, M10 x 1.5 mm Thread, 25 mm Long	661165886085
43B	1	788344	McMaster 90576A115	TB100-30B	Lock Nut	661165883442
	2	788344	McMaster 90576A115	TB100-30B		661165883442
44	0				Bottom Hook Holder	
	2	788609		TB300-44		661165886092
45	1	788610		TB300-45	Bottom Idle Shaft	661165886108
	0					
46	24	788611		3x30	Roller Pin	661165886115
	0					
	0					
	0					
47	1	788612		TB300-47	Bottom Idle Sheave	661165886122
	0					
	0					
48	0				Snap Ring	
49	0				Snap Ring	
50	0				Bottom Hook Shaft	

CB500	Quantity	Stock #	Reference	MODEL	DESCRIPTION	UPC
1	1	788569		TB500-1	Top Hook Assembly	661165885699
2	2	788570		TB500-2	Safety Latch Assembly	661165885705
3	1	788528		TB500-3	Top Hook Shaft	661165885286
	0					
4A	6	788323	McMaster 99164A103	M10	Acorn Nut = High-Strength Steel Cap Nut, Class 10, Zinc-Plated, M10 x 1.5 mm Thread	661165883237
	0					
4B	6	788322	McMaster 91202A242	Ø10	Lock Washer = Zinc-Plated Steel Split Lock Washer for M10 Screw Size, 10.7 mm ID, 18.1 mm OD	661165883220
	0					
5	4	788310	McMaster 97358A101	Ø3x6 Ø0.118x0.236	Rivet = Low-Profile Flat Head Solid Rivets, 0.119" Diameter, for 0.16" Maximum Material Thickness	661165883107
	0					
6	1	788571		TB500-6	Name Plate	661165885712
	0					
7	1	788530		TB500-7	Gear Cover Assmebly	661165885309
	0					
8	2	788531		TB500-8	Spur Gear Assembly	661165885316
	0					
9	1	788532		TB500-9	Drive Shaft	661165885323
	0					
10	1	788533	McMaster 98541A139	Φ32	Snap Ring = External Retaining Ring for 32 mm OD, Black-Phosphate 1060-1090 Spring Steel	661165885330
	0					
11	1	788534		TB500-11	Load Gear	661165885347
	0					
12	1	788535		TB500-12	Gear Side Plate Assembly	661165885354
	0					
13	1	788536		TB500-13	Load Sheave	661165885361
	0					
13A	2	788537		TB500-13A	Caged Roller Bearings	661165885378
	0					
14	2	788538		TB500-14	Guide Roller	661165885385
	0					
15	1	788539		TB500-15	Stripper	661165885392
	0					
16	1	788540		TB500-16	Wheel Side Plate Assembly	661165885408
	0					
17	2	788541		TB500-17	Pawl Spring	661165885415
	0					
18	2	788542		TB500-18	Pawl	661165885422
	0					
19	2	788543	McMaster 90967A155	Ø9	Snap Ring = External Retaining Ring for 9 mm OD, DIN 1.4122 Stainless Steel	661165885439
	0					
20	1	788544		TB500-20	Disc Hub	661165885446
	0					
21	2	788545		TB500-21	Friction Disc	661165885453
	0					
22	1	788546		TB500-22	Ratchet Disc	661165885460
	0					
23	1	788547		TB500-23	Dust Cover	661165885477
	0					
24	1	788548		TB500-24	Hand Chain Wheel	661165885484
	0					
25	1	788549		M14	Pinion Nut = Castle Nut No McMaster Cross	661165885491
	0					
26	1	788550	McMaster 98350A280	3x30	Split Pin = Cotter Pin, Zinc-Plated Steel, 3.2mm Diameter, 32mm Long	661165885507
	0					
27	1	788551		TB500-27	Hand Wheel Cover Assembly	661165885514
	0					
28	1	788552		Φ5x25x17	Connecting Link	661165885521
	0					
29	As Req'd Per Foot	788552		Φ5x25x17	Hand Chain	661165885521
30A	1	788553		TB500-30A	Internal hexagonal screw	661165885538
	0					
30B	1	788554	McMaster 90576A119	M12	Lock Nut = Medium-Strength Steel Nylon-Insert Locknut, Class 8, Zinc-Plated, M12 x 1.75 mm Thread	661165885545
	0					

CB500	Quantity	Stock #	Reference	MODEL	DESCRIPTION	UPC
31	1	788555		TB500-31	Anchor Plate	661165885552
	0					
32	As Req'd Per Foot	788556		Ø10X30	Load Chain	661165885569
33A	1	788572		TB500-33A	Load Pin	661165885729
33B	1	788380	McMaster 90576A118	M10	Lock Nut = Medium-Strength Steel Nylon-Insert Locknut, Class 8, Zinc-Plated, M12 x 1.75 mm Thread	661165883800
34	1	788573		TB500-33	Bottom Hook Assembly	661165885736
35A	0				Lock Nut	
35B	0				Socket Head Cap Screw	
36	0				Top Hook Holder	
36A	0				Left Top Hook Holder	
36B	0				Right Top Hook Holder	
37	0				Top Idle Sheave	
	0					
38	0				Roller Pin	
	0					
39	0				Top Idle Shaft	
40	0				Slotted baffle	
40A	0				Hexagon Socket Head Cap Screw	
40B	0				Lock Washer	
41	0				Hook Shaft	
42	0				Slotted baffle	
42A	0				Hexagon Socket Head Cap Screw	
42B	0				Lock Washer	
43A	1	788398	McMaster 91280A538	M8x30	Hex Head Cap Screw	661165883985
	2	788399	McMaster 91280A634	M10x30		661165883992
43B	1	788344	McMaster 90576A117	M8	Lock Nut	661165883442
	2	788380	McMaster 90576A118	M10		661165883800
44	0				Bottom Hook Holder	
	2	788574		TB500-44		661165885743
45	1	788575		TB500-45	Bottom Idle Shaft	661165885750
	0					
46	0				Roller Pin	
	29	788565		3x40		661165885651
	0					
	0					
47	1	788566		TB500-47	Bottom Idle Sheave	661165885668
	0					
	0					
48	0				Snap Ring	
49	0				Snap Ring	
50	0				Bottom Hook Shaft	

CB1K	Quantity	Item #	Refence	MODEL	DESCRIPTION	UPC
1	1	788526		TB1000-1	Top Hook Assembly	661165885262
2	2	788527		TB1000-2	Safety Latch Assembly	661165885279
3	1	788528		TB500-3	Top Hook Shaft	661165885286
	0					
4A	6	788323	McMaster 99164A103	M10	Acorn Nut = High-Strength Steel Cap Nut, Class 10, Zinc-Plated, M10 x 1.5 mm Thread	661165883237
	0					
4B	6	788322	McMaster 91202A242	Ø10	Lock Washer = Zinc-Plated Steel Split Lock Washer for M10 Screw Size, 10.7 mm ID, 18.1 mm OD	661165883220
	0					
5	4	788310	McMaster 97358A101	Ø3x6 Ø0.118x0.236	Rivet = Low-Profile Flat Head Solid Rivets, 0.119" Diameter, for 0.16" Maximum Material Thickness	661165883107
	0					
6	1	788529		TB1000-6	Name Plate	661165885293
	0					
7	1	788530		TB500-7	Gear Cover Assmebly	661165885309
	0					
8	2	788531		TB500-8	Spur Gear Assembly	661165885316
	0					
9	1	788532		TB500-9	Drive Shaft	661165885323
	0					
10	1	788533	McMaster 98541A139	Φ32	Snap Ring = External Retaining Ring for 32 mm OD, Black-Phosphate 1060-1090 Spring Steel	661165885330
	0					
11	1	788534		TB500-11	Load Gear	661165885347
	0					
12	1	788535		TB500-12	Gear Side Plate Assembly	661165885354
	0					
13	1	788536		TB500-13	Load Sheave	661165885361
	0					
13A	2	788537		TB500-13A	Caged Roller Bearings	661165885378
	0					
14	2	788538		TB500-14	Guide Roller	661165885385
	0					
15	1	788539		TB500-15	Stripper	661165885392
	0					
16	1	788540		TB500-16	Wheel Side Plate Assembly	661165885408
	0					
17	2	788541		TB500-17	Pawl Spring	661165885415
	0					
18	2	788542		TB500-18	Pawl	661165885422
	0					
19	2	788543	McMaster 90967A155	Ø9	Snap Ring = External Retaining Ring for 9 mm OD, DIN 1.4122 Stainless Steel	661165885439
	0					
20	1	788544		TB500-20	Disc Hub	661165885446
	0					
21	2	788545		TB500-21	Friction Disc	661165885453
	0					
22	1	788546		TB500-22	Ratchet Disc	661165885460
	0					
23	1	788547		TB500-23	Dust Cover	661165885477
	0					
24	1	788548		TB500-24	Hand Chain Wheel	661165885484
	0					
25	1	788549		M14	Pinion Nut = Castle Nut No McMaster Cross	661165885491
	0					
26	1	788550	McMaster 98350A280	3x30	Split Pin = Cotter Pin, Zinc-Plated Steel, 3.2mm Diameter, 32mm Long	661165885507
	0					
27	1	788551		TB500-27	Hand Wheel Cover Assembly	661165885514
	0					
28	1	788552		Φ5x25x17	Connecting Link	661165885521
	0					
29	As Req'd Per Foot	788552		Φ5x25x17	Hand Chain	661165885521
30A	1	788553		TB500-30A	Internal hexagonal screw	661165885538
	0					
30B	1	788554	McMaster 90576A119	M12	Lock Nut = Medium-Strength Steel Nylon-Insert Locknut, Class 8, Zinc-Plated, M12 x 1.75 mm Thread	661165885545
	0					
31	1	788555		TB500-31	Anchor Plate	661165885552
	0					

CB1K	Quantity	Item #	Refence	MODEL	DESCRIPTION	UPC
32	As Req'd Per Foot	788556		Ø10X30	Load Chain	661165885569
33A	1	788523		KV090-40	Load Pin	661165885231
33B	1	788380	McMaster 90576A118	M10	Lock Nut = Medium-Strength Steel Nylon-Insert Locknut, Class 8, Zinc-Plated, M12 x 1.75 mm Thread	661165883800
34	1	788557		TB1000-33	Bottom Hook Assembly	661165885576
35A	3	788380	McMaster 90576A118	M10	Lock Nut = Medium-Strength Steel Nylon-Insert Locknut, Class 8, Zinc-Plated, M12 x 1.75 mm Thread	661165883800
35B	3	788558	McMaster 96364A212	M10x40	Hex Head Cap Screw	661165885583
36	0				Top Hook Holder	
36A	1	788559		TB1000-36A	Left Top Hook Holder	661165885590
36B	1	788559		TB1000-36B	Right Top Hook Holder	661165885590
37	1	788560		TB1000-37	Top Idle Sheave	661165885606
	0					
38	25	788561		4x40	Roller Pin	661165885613
	0					
39	1	788562		TB1000-39	Top Idle Shaft	661165885620
40	0				Slotted baffle	
40A	0				Hexagon Socket Head Cap Screw	
40B	0				Lock Washer	
41	0				Hook Shaft	
42	0				Slotted baffle	
42A	0				Hexagon Socket Head Cap Screw	
42B	0				Lock Washer	
43A	0				Socket Head Cap Screw	
	0					
43B	0				Lock Nut	
	0					
44	1	788563		TB1000-44	Bottom Hook Holder	661165885637
	0					
45	0				Bottom Idle Shaft	
	2	788564		TB1000-45		661165885644
46	0				Roller Pin	
	0					
	58	788565		3x40		661165885651
	0					
47	0				Bottom Idle Sheave	
	2	788566		TB500-47		661165885668
	0					
48	4	788567	McMaster 90967A270	Φ25	Snap Ring = External Retaining Ring for 25 mm OD, DIN 1.4122 Stainless Steel	661165885675
49	2	788533	McMaster 98541A139	Φ32	Snap Ring = External Retaining Ring for 32 mm OD, Black-Phosphate 1060-1090 Spring Steel	661165885330
50	1	788568		TB1000-50	Bottom Hook Shaft	661165885682



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