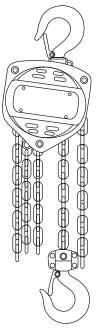


Sumner Manufacturing Co., LLC 7514 Alabonson Road Houston, Texas 77088 Phone Number: 1.281.999.6900

7/19 (PCB100WO/PCB150WO/PCB200WO/ PCB300WO /PCB500WO/PCB1KWO/PCB1.5KWO/ PCB2KWO)



OPERATING INSTRUCTIONS AND PARTS MANUAL
PREMIUM CHAIN BLOCK SERIES HOIST W/ OVERLOAD
(PCB100WO/PCB150WO/PCB200WO/PCB300WO
/PCB500WO/PCB1KWO/PCB1.5KWO/PCB2KWO)



PCB100WO

(Models shown are representative of the series)



THE INSTRUCTIONS AND SAFETY INFORMATION IN

THIS MANUAL BEFORE OPERATING OR

SERVICING THIS TOOL

READ AND UNDERSTAND ALL



TABLE OF CONTENTS

Important Safety Information	2-5
Description of Operation	6
Specifications	
PCB100WO/PCB150WO/PCB200WO/PCB300WO/	
PCB500WO/PCB1KWO/PCB1.5KWO/PCB2KWO	7
Operation	8
Inspections	17
Wear Limits	18-19
Replacement Parts	20
Exploded Parts Diagram	
PCB100WO- Parts List	22
PCB150WO- Parts List	23
PCB200WO- Parts List	24
PCB300WO- Parts List	25
PCB500WO- Parts List	26
PCB1KWO- Parts List	27
PCB1.5KWO- Parts List	28
PCB2KWO- Parts List	29
Warranty	3U-3.

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

1

IMPORTANT SAFETY INFORMATION



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 Premium Chain Block Series PCB Hoist w/ Overload Protection.
- Wear eve 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 CAN 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.

IMPORTANT SAFETY INFORMATION

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 Premium Chain Block Hoist w/ Overload Protection.
- This hoist is designed and intended for use by properly trained and experienced personnel only. If you are not familiar with the proper and safeoperation 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.
- 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.

INTRODUCTION

- On hoists with overload protection, 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 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 hoist 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.

A 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, **D0 N0T USE**. Have tool inspected and repaired prior to use.

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

Description of Operation

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: PREMIUM CHAIN BLOCK SERIES HOIST W/ OVERLOAD.

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 Premium Chain Block Series Hoists w/ Overload Protection. 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.

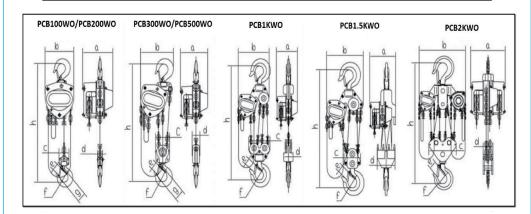
The Chain Block Series Hoists are all steel construction with a powder coat finish and have a completely enclosed Weston-type automatic brake system.

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

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



			Prem	ium Chai	n Bloc	k Hoist	with C	verlo	ad 1-T	on throu	gh 20-To	on			
										Bottom	Bottom			Hook	
		Dotted.	CLI	Min.		Load				Hook	Hook	Hook	Base	Opening	Net
Stock	A decided by south a se	Rated	Std. Lift	Distance	No. of		Pull to	Body	Body	Mount	Mount	Throat	Hook	Center	l
Number	Model Number	Capacity		between	falls	Chain	Rated	Depth	Width	Width	Depth	Opening	Opening	Point	Weigl
		(Ton)	(ft.)	hooks (in.)		(mm)	Load	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	(in.)	(lbs)
				"h"			(lb)	"a"	"b"	"c"	"d"	"e"	"f"	"g"	
787448	PCB100C10WO	1	10	13.38	1	6.3 x 19	69.24	6.73	6.33	1.98	1.18	1.29	1.57	1.77	27.2
787449	PCB100C15WO	1	15	13.38	1	6.3 x 19	69.24	6.73	6.33	1.98	1.18	1.29	1.57	1.77	33.8
787450	PCB100C20WO	1	20	13.38	1	6.3 x 19	69.24	6.73	6.33	1.98	1.18	1.29	1.57	1.77	40.48
787451	PCB100C30WO	1	30	13.38	1	6.3 x 19	69.24	6.73	6.33	1.98	1.18	1.29	1.57	1.77	47.6
787452	PCB150C10WO	1.50	10	14.76	1	7.1 x 21	73.96	7.00	7.16	2.49	1.33	1.31	1.65	1.86	34.32
787453	PCB150C15WO	1.50	15	14.76	1	7.1 x 21	73.96	7.00	7.16	2.49	1.33	1.31	1.65	1.86	42.02
787454	PCB150C20WO	1.50	20	14.76	1	7.1 x 21	73.96	7.00	7.16	2.49	1.33	1.31	1.65	1.86	49.7
787455	PCB150C30WO	1.50	30	14.76	1	7.1 x 21	73.96	7.00	7.16	2.49	1.33	1.31	1.65	1.86	65.1
787456	PCB200C10WO	2	10	16.33	1	8 x 24	84.30	7.55	7.95	2.49	1.33	1.45	1.81	2.05	44.00
787457	PCB200C10WO	2	15	16.33	1	8 x 24	84.30	7.55	7.95	2.49	1.33	1.45	1.81	2.05	52.4
787458	PCB200C20WO	2	20	16.33	1	8 x 24	84.30	7.55	7.95	2.49	1.33	1.45	1.81	2.05	60.8
787459	PCB200C20WO	2	30	16.33	1	8 x 24	84.30	7.55	7.95	2.49	1.33	1.45	1.81	2.05	77.7
767459	PCB200C30WO		30	10.33	1	6 X 24	64.30	7.55	7.95	2.49	1.33	1.45	1.01	2.05	//./.
787460	PCB300C10WO	3	10	20.27	2	7.1 x 21	76.65	7.08	9.25	4.13	2.08	1.71	2.04	2.45	52.8
787461	PCB300C15WO	3	15	20.27	2	7.1 x 21	76.65	7.08	9.25	4.13	2.08	1.71	2.04	2.45	64.5
787462	PCB300C20WO	3	20	20.27	2	7.1 x 21	76.65	7.08	9.25	4.13	2.08	1.71	2.04	2.45	76.20
787463	PCB300C30WO	3	30	20.27	2	7.1 x 21	76.65	7.08	9.25	4.13	2.08	1.71	2.04	2.45	99.7
787464	PCB500C10WO	5	10	26.37	2	9 x 27	75.31	7.87	11.10	5.18	2.51	2.00	2.36	3.06	90.2
787465	PCB500C15WO	5	15	26.37	2	9 x 27	75.31	7.87	11.10	5.18	2.51	2.00	2.36	3.06	106.3
787466	PCB500C20WO	5	20	26.37	2	9 x 27	75.31	7.87	11.10	5.18	2.51	2.00	2.36	3.06	122.4
787467	PCB500C30WO	5	30	26.37	2	9 x 27	75.31	7.87	11.10	5.18	2.51	2.00	2.36	3.06	154.7
787468	PCB1KC10WO	10	10	34.05	4	9 x 27	79.35	7.87	14.17	10.25	3,74	2.51	3.34		217.8
787469	PCB1KC15WO	10	15	34.05	4	9 x 27	79.35	7.87	14.17	10.25	3.74	2.51	3.34		246.7
787470	PCB1KC20WO	10	20	34.05	4	9 x 27	79.35	7.87	14.17	10.25	3.74	2.51	3.34		275.7
787471	PCB1KC30WO	10	30	34.05	4	9 x 27	79.35	7.87	14.17	10.25	3.74	2.51	3.34		333.6
.0,4/1	. CDIRCSOVO	10	30	34.03	-	3,27	75.55	7.07	14.1/	10.23	3.74	2.31	3.34		333.0
787472	PCB1.5KC10WO	15	10	39.37	6	9 x 27	81.60	8.66	19.37	4.29	6.69	3.14	3.93		336.6
787473	PCB1.5KC15WO	15	15	39.37	6	9 x 27	81.60	8.66	19.37	4.29	6.69	3.14	3.93		378.4
787474	PCB1.5KC20WO	15	20	39.37	6	9 x 27	81.60	8.66	19.37	4.29	6.69	3.14	3.93		420.2
787475	PCB1.5KC30WO	15	30	39.37	6	9 x 27	81.60	8.66	19.37	4.29	6.69	3.14	3.93		503.8
787476	PCB2KC10WO	20	10	45.27	8	9 x 27	79.35	8.66	25.78	11.15	4.84	3.22	4.33		451.0
787475	PCB2KC15WO	20	10	45.27	8	9 x 27	79.35	8.66	25.78	11.15	4.84	3.22	4.33		508.9
787478	PCB2KC20WO	20	20	45.27	8	9 x 27	79.35	8.66	25.78	11.15	4.84	3.22	4.33		566.8
787479	PCB2KC30WO	20	30	45.27	8	9 x 27	79.35	8.66	25.78	11.15	4.84	3.22	4.33		682.7
10/4/9	FCB2KC3UWU	20	30	45.27	٥	9 X 2/	/9.35	8.00	25.78	11.15	4.04	3.22	4.33		082.

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 chain hoist are designed to open to warn of an overload. Both top and bottom hooks (1T 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. Hooks for 15 and 20-Ton hoists do not have indicator points. Measurements are made at the jaw opening.



FIG 1

OPERATION

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 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.

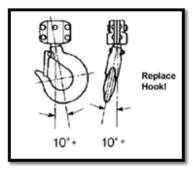


FIG 2

HOOK 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.

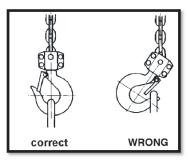


FIG 3

9

OPERATION

- 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.

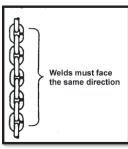


FIG 4

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.

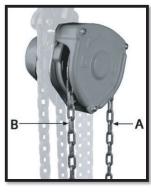


FIG 5

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.

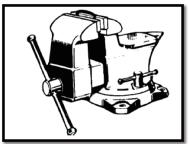


FIG 6

- 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).

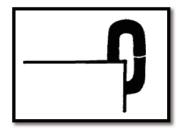


FIG 7

- 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.

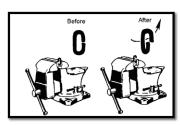


FIG 8

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.

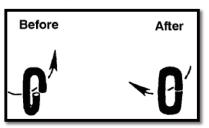


FIG 9

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 10). 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.

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:

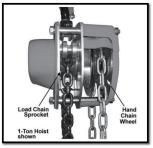
- 1. Test the hoist under load in both the lifting and lowering directions, observing the operation of chain and sprockets. Chain should feed smoothly into and away from the sprockets.
- 2. If the chain binds, jumps, or is noisy, make sure it is clean and properly lubricated. If the trouble persists, 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.
- Select an unworn, unstretched length of chain (i.e. at the slack end).
- Suspend the chain vertically under tension and, using a caliper type gauge, measure the outside length of several links about 12 to 24 inches.
- Measure the same number of links in used sections and calculate the percentage of the increase in length.
- 4. If the length of used chain exceeds 2-1/2 percent of the unused chain, replace the chain. (See "Load Limits" on FIG 15 for specific link measurements.)

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

LOAD CHAIN REMOVAL

Remove the old load chain as follows while referring to FIG 11

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



D B A 1-Ton Hoist shown

FIG 10

FIG 11

ATTACHING LOAD CHAIN TO LOAD CHAIN SPROCKET (ALL MODELS)

Install new load chain onto load chain sprocket as follows, referring to FIG 10:

- 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 11:

- 4. Insert one end of chain link (B) into chain anchor (D).
- 5. Insert the chain anchor pin (C) through the chain anchor (D) and chain link (B) and secure with the cotter pin (A). Continue to Chain Installation that applies to your hoist.

Continue with Load Chain and Bottom Hook Installation on the following page, proceeding to the section that applies to your hoist: 1 to 2-Ton hoists, 3 to 5-Ton hoists, or 10 to 20-Ton Hoists.

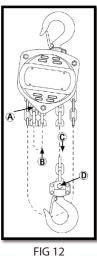
COMPLETING LOAD CHAIN INSTALLATION

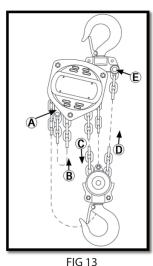
The following procedure assumes that the load chain has been attached to the chain anchor and fed through the load chain sprocket as described in the previous section. This procedure will complete the load chain and bottom hook installation.

CHAIN INSTALLATION: 1T 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.





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.

CHAIN INSTALLATION: 10T-20T

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
- 4. Insert the last link into the right-hand pulley of the upper hook, moving the chain up, then around and down (D, E). Check that the load chain is not twisted, and welds face away from the pulley. To prevent the chain from free-wheeling, insert a screwdriver securely into a link at the base of the upper pulley (left side).
- 5. Insert the last link into the right-side pulley of the lower hook, pulling around, then up from the underside of the pulley (E, F). Check that the load chain is not twisted, and welds face away from the pulley.
- 6. Remove the cotter pin and chain anchor pin in the upper hook slot (G). Remove the lock nut and chain anchor pin in upper hook slot (G).
- 7. Insert the last link into the upper hook slot.
- 8. Check that load chain is not twisted.

Re-position the chain anchor pin back through the upper hook slot and the last chain link and secure with the cotter pin.

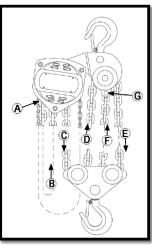


FIG 14

Overload Protection

Some models of the PCB Chain Hoist have overload protection in the form of a slip clutch (these are identified by "WO" in the model number). The slip clutch is effective at 160% +/-20% of the rated hoist capacity. The slip clutch will allow the hand chain pulley to move without lifting the load, if the load is too heavy for the hoist. The slip clutch has been pre-adjusted at the factory and should not require any adjustment by the user. If future adjustment or repair to the slip clutch should ever be needed, this must be done by qualified personnel.

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.

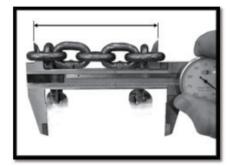
17

- 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.

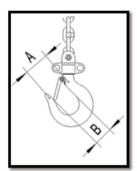


5 Links 5 Links Capacity Normal Limit (in) (in) 3.85" 3.74" 1 ton 4.13" 4.25" 1.5 ton 4.72" 4.86" 2 ton 3 ton 4.13" 4.25" 5.31" 5.47" 5 ton 10 ton 5.31" 5.47" 5.31" 5.47" 15 ton 20 ton 5.31" 5.47"

FIG 15

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.

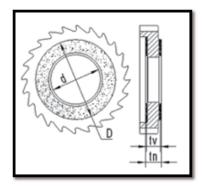


,				
Capacity	"A" Norm	"A" Limit	"B" Norm	"B" Limit
1 ton	1.77"	1.95"	-	
1.5 ton	1.86"	20.5"	-	
2 ton	2.05"	2.26"	-	
3 ton	2.45"	2.70"	-	
5 ton	3.06"	3.37"	-	
10 ton	3.54"	3.89"	2.51"	2.77"
15 ton	-	-	3.14"	3.34"
20 ton	-	-	3.22"	3.42"

FIG 16

BRAKE DISK

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



Consoitu	D	d	tn	tv
Capacity	(in)	(in)	(in)	(in)
1 ton	1.93"	1.26"	0.47"	0.43"
1.5 ton	1.93"	1.26"	0.47"	0.43"
2 ton	2.40"	1.42"	0.47"	0.43"
3 ton	1.93"	1.26"	0.47"	0.43"
5 ton	2.40"	1.42"	0.47"	0.43"
10 ton	2.40"	1.42"	0.47"	0.43"
15 ton	2.40"	1.42"	0.47"	0.43"
20 ton	2.40"	1.42"	0.47"	0.43"

FIG 17

d = inner diameterD = outer diameter

tn = normal measurement

tv = replacement limit

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.

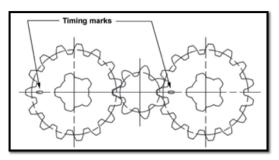


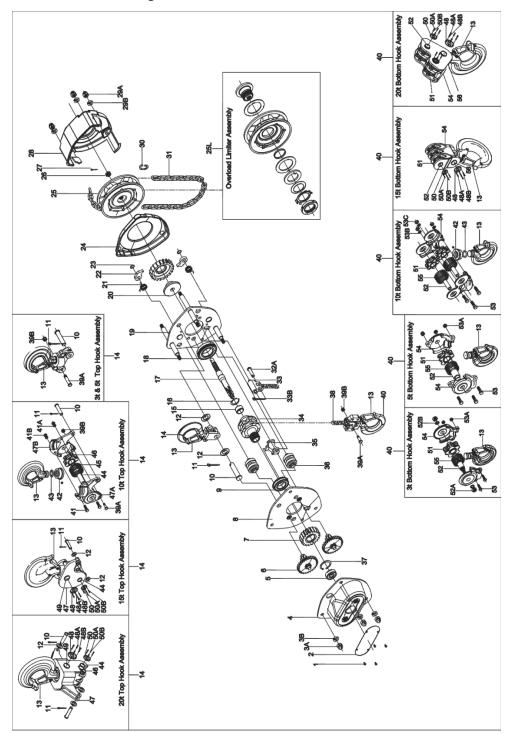
FIG 18

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.

PCB100WO through PCB2KWO – EXPLODED VIEW



PCB100WO	Quantity	Stock#	Reference	MODEL	DESCRIPTION	UPC
			McMaster			
1	4	788310	McMaster 97358A101	K500-1	Rivet = Low-Profile Flat Head Solid Rivets, 0.119" Diameter, for 0.16" Maximum Material Thickness	661165883107
2	1 0	788756		K100-2	Name Plate	661165887563
3A	3	788414	McMaster 99164A102	K300-3A	Acorn Nut = High-Strength Steel Cap Nut, Class 10, Zinc-Plated, M8 x 1.25 mm Thread	661165884142
38	3	788413	McMaster 93279A200	K300-3B	Lock Washer	661165884135
4	1 0	788757		K100-4	Gear Cover Assembly	661165887570
5	1 0	788758		Ø10xØ30x9	Seal Type Caged Ball Bearing	661165887587
6	2 0	788759		K100-6	Spur Gear Assembly	661165887594
7	1 0	788760		K100-7	Load Gear	661165887600
8	0	788761		K100-8	Gear Side Plate Assembly	661165887617
9	0	788762		Ø25xØ47x12	Seal Type Caged Ball Bearing	661165887624
10	0	788763		K100-10	Top Hook Shaft	661165887631
11	0	788764	McMaster 98350A210	K300-11	Split Pin - Cotter Pin, Zinc-Plated Steel, 2.5mm Diameter, 20mm Long	661165887648
12	2		McMaster 93413A180		Washer = Black Ultra-Corrosion-Resistant Coated Steel Washer for M12 Screw Size, 13 mm ID, 24 mm ID	
13 14	2	788765 788766		K100-13 K100-14	Casting Safety Latch Assembly Top Hook Assembly	661165887655 661165887662
15	0	788767		HK1512(Ø21)	Needle Bearing	661165887679
16	1 0	788735	McMaster 98541A463	K300-16	C-Clip	661165887358
17	1 0	788768		K100-17	Drive Shaft	661165887686
18	1 0	788769		Ø30xØ55x13	Seal Type Caged Ball Bearing	661165887693
19	1 0	788770		K100-19	Wheel Side Plate Assembly	661165887709
20	0	788771		K100-20	Disc Hub	661165887716
21	0 2	788772 788773		K300-21 K500-22	Pawl Spring	661165887723 661165887730
22	0		McMaster		Pawl Sons Blos (External Bethining Blos for 10 mm OD Black Bloomhate 1050, 1000 Soring	
23	0	788774	98541A118	K500-23	Snap Ring =External Retaining Ring for 10 mm OO, Black-Phosphate 1060-1090 Spring Steel	661165887747
24	0	788775		K100-24	Dust Cover	661165887754
25	0	788776 788929		K100-25L	Hand Chain Wheel	661165889291
25L	0		McMaster		Overload Limiter Assembly Pinion Nut - Castle Nut	
26	0	788349	93760A222	K300-26	Steel Locknut for Use with Cotter Pins, Medium-Strength, Class 8, M8 x 1.25 mm Thread	661165883497
27	1 0	788711	McMaster 98350A260	K500-27	Split Pin = Cotter Pin, Zinc-Plated Steel, 3.2mm Diameter, 20mm Long	661165887112
28	0	788777		K100-28	Hand Wheel Cover Assembly	661165887778
29A	3	788414	McMaster 99164A102 McMaster	K300-3A	Acom Nut	661165884142
29B	3	788413	93279A200	K300-3B	Lock Washer	661165884135
30	0	788746		Ø5X25	Connecting Link	661165887464
31 32A	As Req'd 1	788746 788778		Ø5X25 K100-32A	Hand Chain Anchor Pin	661165887464 661165887785
32B	1	788715	McMaster 98350A150	K050-328	Split Pln = Cotter Pin, Zinc-Plated Steel, Zmm Diameter, 12mm Long	661165887150
33	0 1 0	788779		K100-33	Anchor Plate	661165887792
34	1 0	788780		K100-34	Load Sheave	661165887808
35	0	788781		K100-35	Stripper	661165887815
36	2	788782		K100-36	Guide Roll er	661165887822
37	1 0	788583	McMaster 98541A130	K300-37	Snap Ring = External Retaining Ring for 28 mm OD, Black-Phosphate 1060-1090 Spring Steel	661165885835
38 39A	As Req'd	788783 788784		Ø6.3x19 K100-39A	Load Chain Load Pin	661165887839 661165887846
39B	1	788754	McMaster 90576A115	M6	Lock Nut	661165887549
40 41	0	788785		K100-40	Bottom Hook Assembly Socket Head Cap Screw	661165887853
41A 41B 42	0 0				Lock Washer Hexagon Nut Hook Coll ar Assembly	
42 43 44	0				HOOK COI ar Assembly Steel Ball Top Idle Shaft	
45	0				Roller Pin	
46	0				Top Idle Sheave	
47 47A	0				Top Hook Holder Left Top Hook Holder Right Top Hook Holder	
47B 48 48A	0 0				Slotted baffle Hexagon Socket Head Cap Screw	
48B 49	0				Lock Washer Hook Shaft	
50 50A	0				Slotted baffle Hexagon Socket Head Cap Screw	
50B 51	0				Lock Washer Bottom Idle Sheave	
52	0 0				Bottom Idle Shaft	
52A 52B	0 0				Lock Nut Washer	
52B 53	0				Washer Socket Head Cap Screw	
53A	0				Lock Nut	
53B 53C	0				Lock Washer Hexagon Nut	
54	0				Bottom Hook Holder	
55	0 0				Roller Pin	
56	0				Bottom Hook Shaft	
					DOMONI (100K SHAIL	i

PCB150WO	Quantity	Stock#	Reference	MODEL	Manufacturer Stock #	DESCRIPTION	UPC
1	4	788310	McMaster 97358A101	K500-1	K500-1	Rivet = Low-Profile Flat Head Soli d Rivets, 0.119" Diameter, for 0.16" Maximum	661165883107
2	1 0	788786		K150-2	K150-2	Material Thickness Name Plate	661165887860
3A	3	788414	McMaster 99164A102	K300-3A	K300-3A	Acorn Nut = High-Strength Steel Cap Nut, Class 10, Zinc-Plated, M8 x 1.25 mm	661165884142
3B	3	788413	McMaster 93279A200	K300-3B	K300-3B	Thread Lock Washer	661165884135
4	0	788787		K300-4	K300-4	Gear Cover Assembly	661165887877
	0	788758		Ø10xØ30x9	Ø10xØ30x9	Fool Time Count Ball Baselon	661165887587
5	0 2	788788		K300-6	K300-6	Seal Type Caged Ball Bearing	661165887884
6	0					Spur Gear Assembly	
7	0	788789		K300-7	K300-7	Load Gear	661165887891
8	0	788790		K300-8	K300-8	Gear Side Plate Assembly	661165887907
9	0	788791		#30x#553x13	Ø30xØ55x15	Seal Type Caged Ball Bearing	661165887914
10	1 0	788792		K150-10	K150-10	Top Hook Shaft	661165887921
11	1	788764	McMaster 98350A210	K300-11	K300-11	Split Pin - Cotter Pin, Zinc-Plated Steel,	661165887648
**	0					2.5mm Diameter, 20mm Long	
12	2	788793	McMaster 91455A170	Ø16.5XØ25X4	Ø16.5XØ25X4	Washer = Class 10.9 Steel Washer, Zinc- Plated, M16 Screw Size, 17 mm ID, 30 mm	661165887938
13	2	788794		K150-13	K150-13	Casting Safety Latch Assembly	661165887945
14	1	788795 788767		K150-14 HK1512(Ø21)	K150-14 HK1512(Ø21)	Top Hook Assembly	661165887952 661165887679
15	0					Needle Bearing	
16	0	788735	McMaster 98541A463	K300-16	K300-16	C-Clip	661165887358
17	1 0	788796		K300-17	K300-17	Drive Shaft	661165887969
18	1	788769		Ø30xØ55x13	Ø30xØ55x13	Seal Type Caged Ball Bearing	661165887693
19	1	788797		K300-19	K300-19	Wheel Side Plate Assembly	661165887976
	0	788771		K100-20	K100-20	· · · · · · · · · · · · · · · · · · ·	661165887716
20	0 2	788772		K300-21	K300-21	Disc Hub	661165887723
21	0					Pawl Spring	
22	0	788773		K500-22	K500-22	Pawl	661165887730
23	2	788774	McMaster 98541A118	K500-23	K500-23	Snap Ring =External Retaining Ring for 10 mm OD, Black-Phosphate 1060-1090 Spring Steel	661165887747
24	1	788798		K300-24	K300-24	Dust Cover	661165887983
25	0	788799		K300-25	K300-25	Hand Chain Wheel	
	0	788930		K300-25L	K300-25L		661165889307
25L	0	788349	McMaster	K300-26	K300-26	Overload Limiter Assembly Pinion Nut - Castle Nut	661165883497
26	0		93760A222 McMaster			Steel Locknut for Use with Cotter Pins, Medium-Strength, Class 8, M8 x 1.25 mm Thread	
27	1 0	788711	98350A260	K500-27	K500-27	Split Pin = Cotter Pin, Zinc-Plated Steel, 3.2mm Diameter, 20mm Long	661165887112
28	1 0	788800		K300-28	K300-28	Hand Wheel Cover Assembly	661165888003
29A	3	788414	McMaster 99164A102	K300-3A	K300-3A	Acom Nut	661165884142
29B	3	788413	McMaster 93279A200	К300-3В	K300-3B	Lock Washer	661165884135
30	0	788746		Ø5X25	Ø5X25	Connecting Link	661165887464
31	O As Req'd	788746		Ø5X25	Ø5X25	Hand Chain	661165887464
374	Per Foot	788801		K300-32A	K300-32A	Anther Din	661165888010
32A 32B	0	788425	McMaster	K300-32B	K300-328	Split Pin = Cotter Pin, 18-8 Stainless Steel,	661165884258
	0	788802	98350A316	K300-33	K300-33	2mm Diameter, 16mm Long	661165888027
33	0	788803		K300-34	K300-34	Anchor Plate	661165888034
34	0					Load Sheave	
35	0	788804		K300-35	K300-35	Stripper	661165888041
36	2	788805		K300-36	K300-36	Guide Roller	661165888058
37	1	788583	McMaster 98541A130	K300-37	K300-37	Snap Ring = External Retaining Ring for 28 mm OD, Black-Phosphate 1060-1090	661165885835
20	0 As Req'd	70000		d7 1v21	d2 1v21	Spring Steel	661165888065
38 39A	Per Foot	788806 788807		Ø7.1x21 K200-39A	Ø7.1x21 K200-39A	Load Chain Load Pin	661165888065 661165888072
		788808	McMaster	M8	M8	Lock Nut	661165888089
39B	1	700000	90576A117				

PCB200WO	Quantity	Stock#	Reference	MODEL	Manufacturer Stock	DESCRIPTION	UPC
1	4	788310	McMaster 97358A101	K500-1	K500-1	Rivet = Low-Profile Flat Head Solid Rivets, 0.119" Diameter, for 0.16" Maximum Material Thickness	661165883107
2	1	788810		K200-2	K200-2	Name Plate	661165888102
3A	3	788811	McMaster 99164A103	K200-3A	K200-3A	Acorn Nut	661165888119
34	0		99164A1U3 McMaster				
38	3	788812	91202A242	K200-3B	K200-3B	Lock Washer = Zinc-Plated Steel Split Lock Washer for M10 Screw Size, 10.7 mm ID, 18.1 mm OD	661165888126
4	1 0	788813		K200-4	K200-4	Gear Cover Assembly	661165888133
5	0	788814		Ø12xØ32x10	Ø12xØ32x10	Seal Type Caged Ball Bearing	661165888140
6	0	788815		K200-6	K200-6	Spur Gear Assembly	661165888157
7	0	788816		K200-7	K200-7	Load Gear	661165888164
8	0	788817		K200-8	K200-8	Gear Side Plate Assembly	661165888171
9	0	788818		Ø30xØ55x14	Ø30xØ55x14	Seal Type Caged Ball Bearing	661165888188
10	0	788819	McMaster	K200-10	K200-10	Top Hook Shaft	661165888195
11	1 0	788764	McMaster 98350A210	K300-11	K300-11	Split Pin - Cotter Pin, Zinc-Plated Steel, 2.5mm Diameter, 20mm Long	661165887648
12	2	788793	McMaster 91455A170	Ø16.5XØ25X4	Ø16.5XØ25X4	Washer = Class 10.9 Steel Washer, Zinc-Plated, M16 Screw Size, 17 mm ID, 30 mm OD	661165887938
13	2	788820		K200-13	K200-13	Casting Safety Latch Assembly	661165888201
14	1 1	788821 788822		K200-14 HK1715(Ø24)	K200-14 HK1715(Ø24)	Top Hook Assembly Needle Bearing	661165888218 661165888225
	1	788823	McMaster 985414130	K200-16	K200-16	Cdip	661165888232
16	0	788824	98541A130	K200-17	K200-17	·	661165888249
17	0	788825		Ø35xØ62x14	Ø35xØ62x14	Drive Shaft	661165888256
18	0	788826		K200-19	K200-19	Seal Type Caged Ball Bearing	661165888263
19	0	788827		K200-20	K200-20	Wheel Side Plate Assembly	661165888270
20	0 2	788772		K300-21	K300-21	Disc Hub	661165887723
21	0 2	788773			K500-21	Pawl Spring	661165887730
22	0	/88//3	McMaster	K500-22	K500-22	Pawl	661165887/30
23	2	788774	98541A118	K500-23	K500-23	Snap Ring «External Retaining Ring for 10 mm OD, Black-Phosphate 1060-1090 Spring Steel	661165887747
24	0	788828		K200-24	K200-24	Dust Cover	661165888287
25	0	788829		K200-25	K200-25	Hand Chain Wheel	
25L	0	788931		K200-25L	K200-25L	Overload Limiter Assembly	661165889314
26	1 0	788650	McMaster 93760A233	K500-26	KS00-26	Pinion Nut = Steel Locknut for Use with Cotter Pins, Medium-Strength, Class 8, M10 x 1.5 mm Thread	661165886504
27	1	788711	McMaster 98350A260	K500-27	K500-27	Split Pin = Cotter Pin, Zinc-Plated Steel, 3.2mm Diameter, 20mm Long	661165887112
28	1	788830		K200-28	K200-28	Hand Wheel Cover Assembly	661165888300
	3	788414	McMaster	K300-3A	K300-3A		661165884142
29A	0		99164A102			Acorn Nut	
29B	3	788413	McMaster 93279A200	к300-3В	K300-3B	Lock Washer	661165884135
30	1 0	788746		Ø5X25	Ø5X25	Connecting Link	661165887464
31	As Req'd Per Foot	788746		Ø5X25	Ø5X25	Hand Chain	661165887464
32A	0	788831		K200-32A	K200-32A	Anchor Pin	661165888317
32B	1	788425	McMaster 98350A316	K300-32B	K300-32B	Split Pin = Cotter Pin, 18-8 Stainless Steel, Zmm Diameter, 16mm Long	661165884258
33	0 1 0	788832		K200-33	K200-33	Anchor Plate	661165888324
34	1 0	788833		K200-34	K200-34	Load Sheave	661165888331
35	1	788834		K200-35	K200-35	Stripper	661165888348
36	2	788835		K200-36	K200-36	Guide Roller	661165888355
37	1	788533	McMaster 98541A139	K500-37	KS00-37	Snap Ring = External Retaining Ring for 32 mm OD, Black-Phosphate 1060-1090 Spring Steel	661165885330
38	O As Req'd	788604		g/8x24	Ø8x24	Load Chain	661165886047
39A	Per Foot	788807		K200-39A	K200-39A	Load Plin	661165888072
39B	1	788808	McMaster 90576A117	M8	MS	Lock Nut	661165888089
40	1	788836		K200-40	K200-40	Bottom Hook Assembly	661165888362

PCB300WO	Quantity	Stock #	Reference	MODEL	Manufacturer Stock #	DESCRIPTION	UPC
1	4	788310	McMaster 97358A101	K500-1	K500-1	Rivet = Low-Profile Flat Head Solid Rivets, 0.119" Diameter, for 0.16" Maximum	661165883107
	0	788837		K300-2	K300-2	Material Thickness	661165888379
2	0		McMaster			Name Plate Acom Nut = High-Strength Steel Cap Nut,	
3A	3	788414	99164A102	K300-3A	K300-3A	Class 10, Zinc-Plated, M8 x 1.25 mm Thread	661165884142
3B	3	788413	McMaster 93279A200	K300-3B	K300-3B	Lock Washer	661165884135
4	1 0	788787		K300-4	K300-4	Gear Cover Assembly	661165887877
5	1	788814		Ø12xØ32x10	Ø12xØ32x10	Seal Type Caged Ball Bearing	661165888140
6	2	788788		K300-6	K300-6	Spur Gear Assembly	661165887884
7	1	788789		K300-7	K300-7	Load Gear	661165887891
	0	788790		K300-8	K300-8	Gear Side Plate Assembly	661165887907
8	0	788838		Ø30xØ55x13	Ø30xØ55x13		
9	0					Seal Type Caged Ball Bearing	661165888386
10	0	788839		K300-10	K300-10	Top Hook Shaft	661165888393
11	0	788764	McMaster 98350A210	K300-11	K300-11	Split Pin - Cotter Pin, Zinc-Plated Steel, 2.5mm Diameter, 20mm Long	661165887648
12	2	788793	McMaster 91455A170	Ø16.5XØ25X4	Ø16.5XØ25X4	Washer = Class 10.9 Steel Washer, Zinc- Plated, M16 Screw Size, 17 mm ID, 30 mm OD	661165887938
13	2	788840		K300-13	K300-13	Casting Safety Latch Assembly	661165888409
14	1	788841 788767		K300-14 HK1512(Ø21)	K300-14 HK1512(Ø21)	Top Hook Assembly	661165888416 661165887679
15	0	788735	McMaster	K300-16	K300-16	Needle Bearing	661165887358
17	0	788796	98541A463	K300-17	K300-17	C- Clip Drive Shaft	661165887969
	0	788842		Ø30xØ55x13	Ø30xØ55x13		661165888423
18	0					Seal Type Caged Ball Bearing	
19	0	788797		K300-19	K300-19	Wheel Side Plate Assembly	661165887976
20	0	788771		K100-20	K100-20	Disc Hub	661165887716
21	0	788772		K300-21	K300-21	Pawl Spring	661165887723
22	2	788773		K500-22	K500-22	Pawl	661165887730
23	2	788774	McMaster 98541A118	K500-23	K500-23	Snap Ring =External Retaining Ring for 10 mm OD, Black-Phosphate 1060-1090	661165887747
23	0		98541A118			Spring Steel	
24	0	788798		K300-24	K300-24	Dust Cover	661165887983
25	0	788799		K300-25	K300-25	Hand Chain Wheel	
25L	1 0	788930		K300-25L	K300-25L	Overload Limiter Assembly	661165889307
26	1	788349	McMaster 93760A222	K300-26	K300-26	Pinion Nut - Castle Nut Steel Locknut for Use with Cotter Pins, Medium-Strength, Class 8, M8 x 1.25 mm	661165883497
27	1	788711	McMaster 98350A260	K500-27	K500-27	Split Pin = Cotter Pin, Zinc-Plated Steel,	661165887112
28	0	788800		K300-28	K300-28	3.2mm Diameter, 20mm Long Hand Wheel Cover Assembly	661165888003
29A	3	788414	McMaster 99164A102	K300-3A	K300-3A	Acom Nut	661165884142
29B	3	788413	McMaster 93279A200	K300-3B	K300-3B	Lock Washer	661165884135
30	0	788746	93279A200	Ø5X25	Ø5X25	Connecting Link	661165887464
31	O As Reg'd	788746		Ø5X25	Ø5X25	Hand Chain	661165887464
	Per Foot	788801		Ø5A25 K300-32A	W300-32A		661165888010
32A	0		McMaster			Anchor Pin	
32B	0	788425	98350A316	K300-32B	K300-32B	Split Pin = Cotter Pin, 18-8 Stainless Steel, 2mm Diameter, 16mm Long	661165884258
33	0	788802		K300-33	K300-33	Anchor Plate	661165888027
34	1 0	788803		K300-34	K300-34	Load Sheave	661165888034
35	0	788804		K300-35	K300-35	Stripper	661165888041
36	2 0	788805		K300-36	K300-36	Guide Roller	661165888058
37	1	788583	McMaster 98541A130	K300-37	K300-37	Snap Ring = External Retaining Ring for 28 mm OD, Black-Phosphate 1060-1090	661165885835
38	O As Req'd Per Foot	788806		Ø7.1x21	Ø7.1x21	Spring Steel Load Chain	661165888065
39A	1	788843	McMaster	K300-39A	K300-39A	Load Pin	661165888430
39B	1	788808	90576A117	M8	M8	Lock Nut	661165888089
40 41	0	788844		K300-40	K300-40	Bottom Hook Assembly Socket Head Cap Screw	661165888447
50A 50B	0					Hexagon Socket Head Cap Screw Lock Washer	
51	1 0	788845		K300-51	K300-51	Bottom Idle Sheave	661165888454
	0	788846		K300-52	K300-52		661165888461
52	0		McMaster			Bottom Idle Shaft Lock Nut = Medium-Strength Steel Nylon- Insert Locknut, Class 8, Zinc-Plated, M12	
52A	2	788847	90576A119	K300-52A	K300-52A	Insert Locknut, Class 8, Zinc-Plated, M12 x 1.75 mm Thread Washer = Class 10.9 Steel Washer, Zinc-	661165888478
52B	2	788848	McMaster 91455A150	K300-52B	K300-52B	Plated, M12 Screw Size, 13 mm ID, 24 mm OD	661165888485
53	2	788399	McMaster 91280A634	K500-53	K500-53	Hex Head Cap Screw = Medium-Strength Class 8.8 Steel Hex Head Screw, Zinc- Plated, M10 x 1.5 mm Thread, 30 mm Long	661165883992
E24	2	788849	McMaster	K300-53A	K300-53A		661165888492
53A	0		90576A117			Lock Nut	
53B 53C	0					Lock Washer Hexagon Nut	
54	0 2	788850		K300-54	K300-54	Bottom Hook Holder	661165888508
	28	788851		Ø3X26	Ø3X26		661165888515
55	0 0					Roller Pin	
			I .		1	i .	

PCB500WO	Quantity	Stock #	Reference	MODEL	Manufacturer Stock #	DESCRIPTION	UPC
1	4	788310	McMaster 97358A101	K500-1	K500-1	Rivet = Low-Profile Flat Head Solid Rivets, 0.119" Diameter, for 0.16" Maximum	661165883107
2	0	788852		K500-2	K500-2	Material Thickness Name Plate	661165888522
	3	788853	McMaster	K500-3A	K500-3A		661165888539
3A	0		99164A104 McMaster			Acorn Nut	
3B	3	788854	93279A400	K500-3B	K500-3B	Lock Washer	661165888546
4	0	788855		K500-4	K500-4	Gear Cover Assembly	661165888553
5	0	788814		Ø12xØ32x10	Ø12xØ32x10	Seal Type Caged Ball Bearing	661165888140
6	2	788856		K500-6	K500-6	Spur Gear Assembly	661165888560
7	0	788857		K500- 7	K500-	Load Gear	661165888577
8	1	788858		K500-8	K500-8	Gear Side Plate Assembly	661165888584
9	0 10	788859		Ø35xØ62x14	Ø35xØ62x14	Seal Type Caged Ball Bearing	661165888591
10	0	788860		K500-10	K500-10	Top Hook Shaft	661165888607
11	1 0	788764	McMaster 98350A210	K300-11	K300-11	Split Pin - Cotter Pin, Zinc-Plated Steel, 2.5mm Diameter, 20mm Long	661165887648
12	2	788793	McMaster 91455A170	Ø16.5XØ25X4	Ø16.5XØ25X4	Washer = Class 10.9 Steel Washer, Zinc- Plated, M16 Screw Size, 17 mm ID, 30 mm OD	661165887938
13 14	1	788861 788862		K500-13 K500-14	K500-13 K500-14	Casting Safety Latch Assembly Top Hook Assembly	661165888614 661165888621
15	0	788822	McMaster	HK1715(Ø24)	HK1715(Ø24)	Needle Bearing	661165888225
16	0	788863	98541A125	K500-16	K500-16	C-Clip = External Retaining Ring for 24 mm OD, Black- Phosphate 1060-1090 Spring Steel	661165888638
17	0	788864		K500-17	K500-17	Drive Shaft	661165888645
18	0	788865		Ø35xØ62x14	Ø35xØ62x14	Seal Type Caged Ball Bearing	661165888652
19	1 0	788866		K500-19	K500-19	Wheel Side Plate Assembly	661165888669
20	1	788827		K200-20	K200-20	Disc Hub	661165888270
21	0 2	788867		K500-21		Pawl Spring	661165888676
22	0	788773		K500-22	K500-22	Pawl	661165887730
23	2 2	788774	McMaster 98541A118	K500-23	K500-23	Snap Ring =External Retaining Ring for 10 mm OD, Black-Phosphate 1060-1090 Spring Steel	661165887747
24	0	788868		K500-24	K500-24	Dust Cover	661165888683
25	0	788869		K500-25	K500-25	Hand Chain Wheel	
25L	0	788932		K500-25L	K500-25L	Overload Limiter Assembly	661165889321
26	1 0	788650	McMaster 93760A233 McMaster	K500-26	K500-26	Pinion Nut	661165886504
27	0	788711	98350A260	K500-27	K500-27	Split Pin = Cotter Pin, Zinc-Plated Steel, 3.2mm Diameter, 20mm Long	661165887112
28	0	788870		K500-28	K500-28	Hand Wheel Cover Assembly	661165888706
29A	3	788414	McMaster 99164A102	K300-3A	K300-3A	Acorn Nut	661165884142
29B	3	788413	McMaster 93279A200	K300-3B	K300-3B	Lock Washer	661165884135
30	0	788746		Ø5X25	Ø5X25	Connecting Link	661165887464
31	As Req'd Per Foot	788746		Ø5X25	Ø5X25	Hand Chain	661165887464
32A	0	788871		K500-32A	K500-32A	Anchor Pin	661165888713
32B	1 0	788308	McMaster 98350A160	K500-32B	K500-32B	Split Pin = Cotter Pin, Zinc-Plated Steel, 2mm Diameter, 20mm Long	661165883084
33	1 0	788872		K500-33	K500-33	Anchor Plate	661165888720
34	1 0	788873		K500-34	K500-34	Load Sheave	661165888737
35	1 0	788874		K500-35	K500-35	Stripper	661165888744
36	2 0	788875		K500-36	K500-36	Guide Roller	661165888751
37	1 0	788533	McMaster 98541A139	K500-37	K500-37	Snap Ring = External Retaining Ring for 32 mm OD, Black-Phosphate 1060-1090 Spring Steel	661165885330
38 39A	As Req'd Per Foot	788806 788876		Ø7.1x21 K500-39A	Ø7.1x21 K500-39A	Load Chain Load Pin	661165888065 661165888768
39A 39B	1	788875	McMaster 90576A118	K500-39A M10	M10	Lock Nut	661165888775
40	1	788878	2027-04110	K500-40	K500-40	Bottom Hook Assembly	661165888782
51	0 0	788879		K500-51	K500-51	Bottom Idle Sheave	661165888799
52	1 0	788880		K500-52	K500-52	Bottom Idle Shaft	661165888805
52A 52B	0					Lock Nut Washer	
52B 53	0		McMaster			Washer Hex Head Cap Screw = Medium-Strength Class 8.8 Steel Hex Head Screw, Zinc-Plated,	
33	3	788399	91280A634	K500-53	K500-53	M10 x 1.5 mm Thread, 30 mm Long	661165883992
53A	3	788505	McMaster 90576A118	K500-53A	K500-53A	Lock Nut	661165885057
53B 53C	0					Lock Washer Hexagon Nut	
53C 54	0 2	788881		K500-54	K500-54	Hexagon Nut Bottom Hook Holder	661165888812
	0	788881					
55	34 0	/88882		Ø3X30	Ø3X30	Roller Pin	661165888829
56	0		 			Bottom Hook Shaft	

CB1KWO	Quantity	Stock #	Reference	MODEL	DESCRIPTION	UPC
		7007:-	McMaster	wrong :	Rivet = Low-Profile Flat Head Solid Rivets, 0.119* Diameter, for 0.16*	
1	4	788310	97358A101	K500-1	Maximum Material Thickness	661165883107
2	1 0	788883		K1000-2	Name Plate	661165888836
3A	3	788853	McMaster 99164A104	K500-3A	Acom Nut	661165888539
	0		McMaster		1	001103888333
38	3	788854	93279A400	K500-3B	Lock Washer	661165888546
4	1 0	788855		K500-4	Gear Cover Assembly	661165888553
5	1 0	788814		Ø12xØ32x10	Seal Type Caged Ball Bearing	661165888140
6	2	788856		K500-6	Spur Gear Assembly	661165888560
7	1 0	788857		K500-7	Load Gear	661165888577
8	1 0	788858		K500-8	Gear Side Plate Assembly	661165888584
9	1 0	788859		Ø35xØ62x14	Seal Type Caged Ball Bearing	661165888591
10	1 0	788860		K500-10	Top Hook Shaft	661165888607
11	1	788884	McMaster 98350A215	K500-11	Split Pin = Cotter Pin, Zinc-Plated Steel, 2.5mm Diameter, 25mm Long	661165888843
	0		McMaster			001103888843
12	2	788793	91455A170	Ø16.5XØ25X4	Washer = Class 10.9 Steel Washer, Zinc- Plated, M16 Screw Size, 17 mm ID, 30 mm OD	661165887938
13	0 2	788885		K1000-13	Casting Safety Latch Assembly	661165888850
14 15	1 1	788886 788822		K1000-14 HK1715(Ø24)	Top Hook Assembly Needle Bearing	661165888867 661165888225
	1	788863	McMaster 98541A125	K500-16	C-Clip = External Retaining Ring for 24 mm OD, Black-Phosphate	
16	0		98541A125		1060-1090 Spring Steel	661165888638
17	0	788864		K500-17	Drive Shaft	661165888645
18	0	788865		Ø35xØ62x14	Seal Type Caged Ball Bearing	661165888652
19	0	788866		K500-19	Wheel Side Plate Assembly	661165888669
20	0	788827		K200-20	Disc Hub	661165888270
21	0	788867		K500-21	Pawl Spring	661165888676
22	0	788773	L	K500-22	Pawl	661165887730
23	2	788774	McMaster 98541A118	K500-23	Snap Ring -External Retaining Ring for 10 mm OD, Black- Phosphate 1060-1090 Spring Steel	661165887747
24	1	788868		K500-24	Dust Cover	661165888683
25	0	788869		K500-25	Hand Chain Wheel	
25L	0 1	788932		K500-25L	Overload Limiter Assembly	661165889321
	0	788650	McMaster 93760A233	K500-26	· · · · · · · · · · · · · · · · · · ·	
26	0				Pinion Nut	661165886504
27	1	788711	McMaster 98350A260	K500-27	Split Pin = Cotter Pin, Zinc-Plated Steel, 3.2mm Diameter, 20mm Long	661165887112
28	1	788870		K500-28	Hand Wheel Cover Assembly	661165888706
	3	788414	McMaster	K300-3A		
29A	0		99164A102		Acom Nut	661165884142
29B	3	788413	McMaster 93279A200	K300-3B	Lock Washer	661165884135
30	0	788746		Ø5X25	Connecting Link	661165887464
31	0 As Req'd	788746		Ø5X2S	Hand Chain	
32A	Per Foot 1	788871		K500-32A	Anchor Pin	661165887464 661165888713
32B	1	788308	McMaster	K500-32B	Split Pin = Cotter Pin, Zinc-Plated Steel, 2mm	
	0	788872	98350A160	K500-33	Diameter, 20mm Long	661165883084 661165888720
33	0				Anchor Plate	
34	0	788873		K500-34	Load Sheave	661165888737
35	0	788874 788875		K500-35 K500-36	Stripper	661165888744 661165888751
36	ō		McMaster		Guide Roller	001103000731
37	0	788533	98541A139	K500-37	Snap Ring = External Retaining Ring for 32 mm OD, Black- Phosphate 1060-1090 Spring Steel	661165885330
38	As Req'd	788887		Ø9X27	Load Chain	661165888874
39A	Per Foot 1	788888	McMaster	K1000-39A	Load Pin	661165888881
39B 40	1	788877 788889	90576A118	M10 K1000-40	Lock Nut	661165888775 661165888898
41	3	788890	McMaster	K1000-40	Bottom Hook Assembly Hex Head Screw – Medium-Strength Class 8.8 Steel Hex Head Screw, Back Ultra-Corrosion-	
7.	,	700090	96364A217	NA000-41B	Resistant Coated, M12 X1.75 Thread, 40mm Lock Washer – Blue-Dyed Steel Split Lock	661165888904
41A	3	788854	McMaster 93279A400	K500-3B	Washer for M12 Screw Size, 12.3 mm ID, 21.7 mm OD	661165888546
41B	3	788890	McMaster 90592A028	K1000-41B	mm OD Hexagon Nut	661165888904
42 43	0 26	788891		K1000-43	Hook Coll ar Assembly Steel Ball	661165888911
44	26 1 34	788891 788892 788611		K1000-43 K1000-44 3x30	Top Idle Shaft	661165888911 661165888928 661165886115
45	0 1	788611 788893		3x30 K1000-46	Roller Pin	661165888935
46 47	0				Top Idle Sheave Top Hook Holder	
47A 47B	1 1	788894 788895		K1000-47A K1000-47B	Left Top Hook Holder Right Top Hook Holder	661165888942 661165888959
48 48 A	0			7/2	Slotted baffle Hexagon Socket Head Cap Screw	
48B 49	0				Hexagon socket Head Lap Screw Lock Washer Hook Shaft	
50 50A	0				Slott do baffle Slott do baffle Hexagon Socket Head Cap Screw	
50B	0				Lock Washer	
51	2 0	788896		K1000-51	Bottom Idle Sheave	661165888966
52	0	788897		K1000-52	Bottom idle Shaft	661165888973
52A	0 0	/0003/		N1000-32	Lock Nut Washer	0011030889/3
	0		McMaster		Hex Head Screw	
52B 53	3	788898	McMaster 96364A217	K1000-53		661165888980
53					Lock Nut Lock Washer = Blue-Dyed Steel Split Lock	
	0			I	Washer for M12 Screw Size, 12.3 mm ID, 21.7	ı
53		788854	McMaster 93279A400	K500-3B	Washer for M12 Screw Size, 12.3 mm ID, 21.7	661165900740
53 53A	0	788854 788890	93279A400 McMaster	K1000-41B	Washer for M12 Screw size, 12.3 mm ID, 21.7 mm OD Hexagon Nut	661165888546
53 53A 53B	3	788890	93279A400	K1000-41B	mm OD	661165888904
53 53A 53B 53C	3		93279A400 McMaster		mm OD Hexagon Nut	

	_			ı		
CB1.5KWO	Quantity	Stock #	Reference	MODEL	DESCRIPTION	UPC
1	0		McMaster		Rivet = Low-Profile Flat Head Solid Rivets, 0.119" Diameter, for 0.16" Maximum	
	8	788310	97358A101	K500-1	Material Thickness	661165883107
2	2	788901		K1500-2	Name Plate	661165889017
3A	6	788853	McMaster	K500-3A	Acom Nut	661165888539
	0		99164A104			
3B	6	788854	McMaster 93279A400	K500-3B	Lock Washer	661165888546
4	0 2	788855		K500-4	Gear Cover Assembly	661165888553
5	0	788814		Ø12xØ32x10	Seal Type Caged Ball Bearing	661165888140
6	0				Spur Gear Assembly	
7	0	788856		K500-6	Load Gear	661165888560
8	0	788857		K500-7	Gear Side Plate Assembly	661165888577
	2	788858		K500-8		661165888584
9	2	788859		Ø35xØ62x14	Seal Type Caged Ball Bearing	661165888591
10	2	788860		K500-10	Top Hook Shaft	661165888607
11	0		McMaster		Split Pin = Cotter Pin, Zinc-Plated Steel,	
	2	788884	98350A215	K500-11	2.5mm Diameter, 25mm Long	661165888843
12	0		McMaster		Split Pin = Cotter Pin, Zinc-Plated Steel, 2.5mm Diameter, 25mm Long	
	4	788884 788902	98350A215	K500-11		661165888843
13 14	1	788902 788903		K2000-13 K2000-14	Casting Safety Latch Assembly Top Hook Assembly	661165889024 661165889031
15	0 2	788822		HK1715(Ø24)	Needle Bearing	661165888225
16	0				C-Clip = External Retaining Ring for 24 mm OD, Black-Phosphate 1060-1090	
16	2	788863	McMaster 98541A125	K500-16	Spring Steel	661165888638
17	0	788864		K500-17	Drive Shaft	661165888645
18	1	788904 788904		Ø35xØ62x14	Seal Type Caged Ball Bearing	661165889048
19	1	788866		K500-19	Wheel Side Plate Assembly	#N/A 661165888669
20	1	788827	 	K200-20	Disc Hub	661165888270
	0	788867		K500-21		661165888676
21	0	788773			Pawl Spring	
22	0			KS00-22	Pawl	661165887730
23	2	788774	McMaster 98541A118	K500-23	Snap Ring =External Retaining Ring for 10 mm OD, Black-Phosphate 1060-1090	661165887747
	0	788868	-	K500-24	Spring Steel Dust Cover	661165888683
24	0	788869		K500-25	******	
25	0				Hand Chain Wheel	
25L	0	788935		OL1.5K	Overload Limiter Assembly	661165883954
26	1	788650	McMaster 93760A233	K500-26	Pinion Nut	661165886504
	0		McMaster			
27	1	788711	98350A260	K500-27	Split Pin = Cotter Pin, Zinc-Plated Steel, 3.2mm Diameter, 20mm Long	661165887112
28	0	788870		K500-28	Hand Wheel Cover Assembly	661165888706
	0					
29A	6	788414	McMaster 99164A102	K300-3A	Acorn Nut	661165884142
	0					
29B	6	788413	McMaster 93279A200	K300-3B	Lock Washer	661165884135
30	0	788746		Ø5x25	Connecting Link	661165887464
31	As Reg'd Per Foot	788746		Ø5X25	Hand Chain	661165887464
32A	0	788871			Anchor Pin	
	0	788871		K500-32A	Split Pin = Cotter Pin, Zinc-Plated Steel,	661165888713
32B	2	788308	McMaster 98350A160	K500-32B	2mm Diameter, 20mm Long	661165883084
33	0	788872	300304100	1/500.00	Anchor Plate	
34	0			K500-33	Load Sheave	661165888720
35	2	788873		K500-34	Stripper	661165888737
	2	788874		K500-35		
36					**	661165888744
	0 4	788875	MeMester	K500-36	Guide Roller	661165888751
37	1	788875 788533	McMaster 98541A139		Snap Ring = External Retaining Ring for 32 mm OD, Black-Phosphate 1060-1090	
	4	788533		K500-36 K500-37	Snap Ring = External Retaining Ring for 32 mm OD, Black-Phosphate 1060-1090 Spring Steel	661165888751 661165885330
38	1 0		98541A139	K500-36 K500-37 Ø9x27	Snap Ring = External Retaining Ring for 32 mm OD, Black-Phosphate 1060-1090 Spring Steel Load Chain	661165888751 661165885330 661165888874
	1 0 As Req'd	788533 788887	98541A139 McMaster	K500-36 K500-37	Snap Ring = External Retaining Ring for 32 mm OD, Black-Phosphate 1060-1090 Spring Steel	661165888751 661165885330
38 39A 39B 40	4 1 0 As Req'd Per Foot 1 0	788533 788887 788888	98541A139	K500-36 K500-37 Ø9x27 K1000-39A	Snigh Hing * Euderma Retaining Hing for az mm OD, Black-Prosphile 1000-1000 Spring Steel Load Chain Load Pini Lock Hint Botton Hook Assembly	661165888751 661165885330 661165888874
38 39A 39B 40 41 41A	4 1 0 0 As Req'd Per Foot 1 0 0 1 1 0 0 0 0 0 0 0	788533 788887 788888 788877	98541A139 McMaster	K500-36 K500-37 Ø9x27 K1000-39A M10	Stap Pengr = External Redaming Pengl of az mm OD, Black-Phospathal (1000-1000) Spring Steel Load Chain Load Min Load Min Load Min Load Min Load Steel Load Chain Load Steel Load Chain Load Steel Load Chain Load Chain Load Load Chain Load Chain Load Load Chain Load Chain Load Chain Load Chain Load Chain Load Load Chain Load Chain Load Load Chain Load Chain Load Chain Load Chain Load Chain Loa	661165888751 661165885330 661165888874 661165888881
38 39A 39B 40 41	4 1 0 As Req'd Per Foot 1 0 1	788533 788887 788888 788877	98541A139 McMaster	K500-36 K500-37 Ø9x27 K1000-39A M10	Sisp Forge = External Relationing Foring for 32 mm CO, Black-Phospharta Blood: 1900 Spring Steel Load Chain Load The Load For Loa	661165888751 661165885330 661165888874 661165888881
38 39A 39B 40 41 41A 41B 42 43	4 1 0 As Req'd Per Foot 1 0 1 0 0 0 0 0 0	788533 768887 768888 788877 788905	98541A139 McMaster	K500-36 K500-37 Ø9X27 K1000-38A M10 X1500-40	Sisp Forge = External Redaming Forge or 2 x mm CO, Black-Phosphart Bioth. 1900 - 1900 Spring Steel Load Chain Load Fini Load Will Betten Hook Assembly Socker Hood Cop Screw Load Varioner Load Varioner Hook Callar Assembly Spring Steel Hook Cop Screw Load Varioner Hook Callar Assembly Spring Steel Hook Callar Assembly	661165888751 661165885330 661165888874 66116588881 66116588881
38 39A 39B 40 41 41A 41B 42	4 1 0 As Req'd Per Foot 1 0 0 0 0 0	788533 788887 788888 788877	98541A139 McMaster	K500-36 K500-37 Ø9x27 K1000-39A M10	Step Forgy = Listerine Relating Forgy for 32 mm O.D. Black-Phosphate 1000-1000 Spring Steel Load Chain Load Chain Load For Load F	661165888751 661165885330 661165888874 661165888881
38 39A 39B 40 41 41A 41B 42 43 44 45	4 1 0 As Req'd Per Foot 1 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1	788533 788867 788887 788868 788877 788905	98541A139 McMaster	K500-36 K500-37 Ø9x27 K1000-39A M10 K1500-40	Sisp Forge = External Redaming Forge or 2. mm CD, Black-Phospharte Blood: 1900 Spring Steel Load Chain Load For Load For Load Forge	661165888751 661165885330 661165888874 661165888881 661165888055
38 39A 39B 40 41 41A 41B 42 43 44 45	4 1 1 0 As Req'd Per Foot 1 1 0 0 0 0 0 0 0 0 1 1 1 1 0 0 0 0 1	788533 768887 768888 788877 788905	98541A139 McMaster	K500-36 K500-37 Ø9X27 K1000-38A M10 X1500-40	Sisp Forge = External Redaming Forge or 2 x mm CD, Black-Phospharta (Bodo) 1900 Spring Steel Load Chain Load For Load Wart Bedton Hook Assembly Sees Warter Hook Caller Assembly Sees Hook Caller Assembly Sees Hook Caller Assembly Sees Hook Caller Assembly Top all Sees Hook Caller For Top Sees Sees Hook Caller For	661165888751 661165885330 661165888874 66116588881 66116588881
38 39A 39B 40 41 41A 41B 42 43 44 45 46 46 47 47A	4 1 1 0 As Req'd Per Foot 1 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0	788533 788887 788888 788877 788905 788905	98541A139 McMaster	R505.38 K505.37 89027 FK005.39A M10 K1506.40	Step Forige * Listerine Relatining Forig for 32 mm O.D. Black-Phosphate Blood: 1000 Spring Steel Load Chails Load Chails Load For For Load For For Load For For Load For For For Load For For For Load For For For For Hospital For For For For For Hospital For	661165888751 661165885330 661165888874 661165888881 661165889055
38 39A 39B 40 41 41A 41B 42 43 44 45	4 1 1 0 As Req'd Per Foot 1 1 0 0 0 0 0 0 0 0 1 1 1 1 0 0 0 0 1	788533 788887 788888 788877 788905 788905	98541A139 McMaster	R505.38 K505.37 89027 FK005.39A M10 K1506.40	Step Forgy = Externer Restaming Forgy for 32 mm OD. Black-Phospharts (1000-1000) Spring Steel Load Chain Load Thin Load Thin Load Thin Load Restaming Steel Load Chain Bettom Hose Assumbly Sported Head Log Spring Load Washer Load Washer Restaming Spring Spring Load Washer Load Load Load Load Load Load Load Load	661165888751 661165888330 661165888874 661165888881 661165889055
38 39A 398 40 41 41A 41B 42 43 44 45 46 46 47 47A	4 1 1 0 As Req'd Per Foot 1 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0	788837 788887 788898 788877 788905 788905 788906	98541A139 McMaster	R505-36 K505-37 F505-37 F505-38 K100-39A M10 E1500-40 E1500-44 E1500-44 E2500-45	Stop Foliay = Esterna Restaming Foliay for 22 mm CO. Black-Phosphart Blood: 1000 Serving Steel Load Chain Load Chain Load Chain Load Rin Restam India Servine Section 1000 Servine Restamble Section 1000 Servine Restamble Rings	661165880751 66116588074 661165880874 6611658808075 661165880065 661165880065
38 398 40 41 41 414 42 42 43 44 45 46 47 47 47 47 48 48A	4 1 1 0 As Reg'd Per Foot 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	788533 768887 788887 788888 788877 788905 788905 788905 788907 789006	08641A139 McMaster McMaster McMaster McMaster McMaster Strand11	R505-36 K505-37 F505-37 F505-38 K100-39A M10 E1500-40 E1500-44 E1500-44 E2500-45 E2500-45	Step Filips = Esternar Restaming Filips of 22 mm OD, Black-Phospharb (2005) 1000 mm OD	66116588751 661165885130 661165888781 661165888781 661165887655 661165887655 661165887655 661165887655 661165887656 661165887656 661165887656 661165887656
38 39A 398 40 41 41A 41B 42 43 44 45 45 46 47 47A 47B 48B 48B	4 1 0 As Regid Per Foot	788533 788687 788687 788696 788697 788695 788697 788690 7886907 7886907 7886907 7886907 7886907 7886909 7886910	08541A139 McMaster 00570A118 McMaster 00570A118	R505-38 K505-37 F505-37 F505-37 F505-36 M10 E1506-40 E1506-40 E1506-41 E1506-45 E2006-45 E2006-45 E2006-46 E2006-48 E2006-48 E2006-48	Step Folgy = Listerina Relatining Folgy for 32 mm CO. Black-Phosphate Blood: 1000 Bloom CO. Black-Phosphate Blood: 1000 Bloom Stering Steel Load Chain Load Fine Load Fine Load Relating Steel Load Chain Load Relating Steel Load Relating Steel Relating Steel Load Relating Steel	60110588871 60110588873 601105888874 601105888878 601105888075 601105880092 601105880092 601105880092 601105880093 601105880093 601105880093
38 398 40 41 41 414 42 42 43 44 45 46 47 47 47 47 48 48A	4 1 1 0 As Reg'd Per Foot 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	788533 788887 788889 788897 788905 788905 788905 788907 788907 788907 788907 788910 788911 788911 788911	08641A139 MARASER 00076A118 00076A118 MARASER 00076A118 MARASER 0014A411 MARASER 0014A4111	R505-36 K505-37 S9027 S9027 K1005-39A M10 K1506-40 K1506-40 K1500-44 K1000-45 K1000-45 K1000-45 K1000-46	Step Forge = External Retaining Forge for 32 mm OD, Black-Phosphart Blood 1000 Sorring Steel Load Chain Load Chain Load Chain Load Rhit	60110588071 60110588073 60110588074 60110588074 60110588075 60110588070 60110588070 60110580707 60110580707 60110580707 60110580707 60110580707 60110580707 60110580707 60110580707
38 39A 398 40 41 41A 41B 42 43 44 45 45 46 47 47A 47B 48B 48B	4 1 1 0 As Reg'd Per Foot 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	788533 788687 788687 788696 788697 788695 788697 788690 7886907 7886907 7886907 7886907 7886907 7886909 7886910	08641A139 McMaster McMaster McMaster McMaster McMaster Strand11	R505-38 K505-37 F505-37 F505-37 F505-36 M10 E1506-40 E1506-40 E1506-41 E1506-45 E2006-45 E2006-45 E2006-46 E2006-48 E2006-48 E2006-48	Stop Filips — Esterna Restaming Filips of 22 mm CO. Black-Phospharts (2000) 1000 mm Co. Black-Phosphar	60110588871 60110588873 601105888874 601105888878 601105888075 601105880092 601105880092 601105880092 601105880093 601105880093 601105880093
38 39A 39B 40 41 41 41 42 42 44 44 45 46 47A 47B 48A 48B 48B 48B	4 1 1 1 1 An Regical An Regical Per Find 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	788533 788887 788889 788887 788897 788905 788905 788906 788907 788906 788910 788911 788911 788912	08641 A 139 McMaster	8000-30 8000-37 8000-37 8000-37 81000-38A M10 \$1500-40 \$1500-40 \$1500-40 \$2000-46 \$2000-46 \$2000-46 \$2000-46 \$2000-46 \$2000-46 \$2000-46	Step Folgy = Listerina Federating Folgy for 32 mm CO. Black-Phosphate Blood: 1000 Bloom CO. Black-Phosphate Blood: 1000 Bloom Stering Steel Load Chain Load Fine Fine Fine Load Fine Fine Fine Load Fine Fine Fine Fine Load Fine Fine Fine Fine Fine Fine Fine Fine	66115588871 66115588873 661155888874 66115588881 66115588881 661155888052 66115588062 66115588062 66115580060 66115580060 66115580060 66115580060 66115580060 66115580060 66115580060 66115580060 66115580060 66115580060 66115580060
38 390 398 40 41 41 418 43 44 44 45 46 47 478 488 488 488 488 50 50 50 50 50	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	788533 788887 788889 788897 788905 788905 788905 788907 788907 788907 788907 788910 788911 788911 788911	98641A139 MCMader 9607A-116 MCMader 9614A111 McMader 9614A111 McMader 9627A100	8000-36 1800-37 1900-27 1900-27 181000-38A M10 1500-40 1500-40 1500-40 1500-40 1000-40 1000-40 1000-40 1000-40 1000-40 1000-40 1000-40 1000-50 1000-50	Step Forige * Externer Restaming Forig for 32 mm CO. Black-Phospharts (1000 1000) Spring Steel Load Chain Load Trin Load Trin Load Rest Load Rest Rest Rest Load Rest Rest Rest Load Rest Rest Load Rest Rest Load Rest Rest Rest Rest Rest Rest Load Rest Rest Rest Rest Rest Rest Load Rest Rest Rest Rest Rest Rest Rest Load Rest Rest Rest Rest Rest Rest Rest Rest Load Rest Rest Rest Rest Rest Rest Rest Rest	60110588071 60110588073 60110588074 60110588074 60110588075 60110588070 60110588070 60110580707 60110580707 60110580707 60110580707 60110580707 60110580707 60110580707 60110580707
38 39A 39B 40 41 41 41 42 42 44 44 45 46 47A 47B 48A 48B 48B 48B	4 1 1 1 1 An Regical An Regical Per Find 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	788533 788887 788887 788887 788805 788807 788905 788905 788906 788900 788900 788910 788910 788910 788910 788910 788910 788910 788910	08641 A 139 McMaster	R505-38 R505-38 R505-37 R505-37 R505-37 R505-38 R505	Step Folgy = Listerina Federating Folgy for 32 mm CO. Black-Phosphate Blood: 1000 Bloom CO. Black-Phosphate Blood: 1000 Bloom Stering Steel Load Chain Load Fine Fine Fine Load Fine Fine Fine Load Fine Fine Fine Fine Load Fine Fine Fine Fine Fine Fine Fine Fine	66116588751 66116588774 66116588774 661165888774 661165888774 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775
38 390 398 40 41 41 418 43 44 44 45 46 47 478 488 488 488 488 50 50 50 50 50	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	788533 788887 788888 788887 788889 788805 788905 788905 788906 788906 788907 788907 788907 788907 788910 788910 788911 788911 788911 788910 788910 788910	08541A139 McMaster 00570A118 McMaster 00510A118 McMaster 00144A111 McMaster 0044A111 McMaster 0044A111 McMaster	8000-36 8000-37 89027 81000-38A M10 £1500-40 £1500-40 £1500-44 £2000-45 £2000-45 £2000-45 £2000-45 £2000-48 £2000-50 £2000-50	Step Forige * Externer Restaming Forig for 32 mm CO. Black-Phospharts (1000 1000) Spring Steel Load Chain Load Trin Load Trin Load Rest Load Rest Rest Rest Load Rest Rest Rest Load Rest Rest Load Rest Rest Load Rest Rest Rest Rest Rest Rest Load Rest Rest Rest Rest Rest Rest Load Rest Rest Rest Rest Rest Rest Rest Load Rest Rest Rest Rest Rest Rest Rest Rest Load Rest Rest Rest Rest Rest Rest Rest Rest	66116588071 66116588071 66116588071 66116588074 66116588075 66116588076 66116589002 66116589002 66116589002 66116589002 66116589002 66116589002 66116589000
38 398 398 40 40 41 41 41 41 42 42 43 44 45 46 47 478 48 488 488 500 50A	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	788533 788887 788887 788887 788805 788807 788905 788905 788906 788900 788900 788910 788910 788910 788910 788910 788910 788910 788910	08541A139 McMaster 00570A118 McMaster 00510A118 McMaster 00144A111 McMaster 0044A111 McMaster 0044A111 McMaster	R505-38 R505-38 R505-37 R505-37 R505-37 R505-38 R505	Stop Noticy = Esternal Resistancy Resign of 22 mm CO. Black-Phosphate 1000-1000 Berring Sheet Lead Chain Lead	66116588751 66116588774 66116588774 661165888774 661165888774 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775 66116588775
38 39A 39B 401 411 411 412 42 43 44 45 46 47 47A 47A 47B 48A 48B 48B 50 50A	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	788533 788887 788888 788887 788889 788805 788905 788905 788906 788906 788907 788907 788907 788907 788910 788910 788911 788911 788911 788910 788910 788910	08541A139 McMaster 00570A118 McMaster 00510A118 McMaster 00144A111 McMaster 0044A111 McMaster 0044A111 McMaster	8000-36 8000-37 89027 81000-38A M10 £1500-40 £1500-40 £1500-44 £2000-45 £2000-45 £2000-45 £2000-45 £2000-48 £2000-50 £2000-50	Stop Finity = Listerine Resistancy Finity for 32 at mm O.D. Black-Phosphate 1000-1000 of Spring Sheel Load Chain Load Resistance	66116588071 66116588071 66116588071 66116588074 66116588075 66116588076 66116589002 66116589002 66116589002 66116589002 66116589002 66116589002 66116589000
38 398 398 40 40 41 41 41 41 41 41 42 42 44 45 46 47 47 47 48 48 48 49 50 50 50 50 50 50 50 50 50 50 50 50 50	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	788533 788887 788888 788887 788889 788805 788905 788905 788906 788906 788907 788907 788907 788907 788910 788910 788911 788911 788911 788910 788910 788910	08541A139 McMaster 00570A118 McMaster 00510A118 McMaster 00144A111 McMaster 0044A111 McMaster 0044A111 McMaster	8000-36 8000-37 89027 81000-38A M10 £1500-40 £1500-40 £1500-44 £2000-45 £2000-45 £2000-45 £2000-45 £2000-48 £2000-50 £2000-50	Stop Foliay ** Listerma Relatining Foliay for 32 mm CO. Black-Phosphate Blood: 1000 Bloom m CO. Black-Phosphate Bloom: 1004 Bloom Storing Steel Load Chain Load Chair Load Chain	66116588071 66116588071 66116588071 66116588074 66116588075 66116588076 66116589002 66116589002 66116589002 66116589002 66116589002 66116589002 66116589000
38 398 398 40 40 41 41 41 42 42 43 44 45 46 46 47 77 47 77 48 48 48 48 48 48 48 50 50 500 500 500 51 52 535 535 535 535 535 535 535 535 535	4 1 1 1 1 As Regid Per Foot 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	788533 788887 788888 788887 788889 788805 788905 788905 788906 788906 788907 788907 788907 788907 788910 788910 788911 788911 788911 788910 788910 788910	08541A139 McMaster 00570A118 McMaster 00510A118 McMaster 00144A111 McMaster 0044A111 McMaster 0044A111 McMaster	8000-36 8000-37 89027 81000-38A M10 £1500-40 £1500-40 £1500-44 £2000-45 £2000-45 £2000-45 £2000-45 £2000-48 £2000-50 £2000-50	Stop Noting + External Resistancy Resign of 22 mm CO. Black-Phosphate 1000-1000 mm Co. Black-Phosphate 10000-1000 mm Co. Black-Phosphate 1000-1000 mm Co. Black-Phosphate 1000-1000 mm Co. Black-Phosphate 1000-1000 mm Co. Black-Phosphate 1000-1000 mm Co. Black-Phosphate 10000-1000 mm Co. Black-Phosphate 10000-1000 mm Co. Black-Phosphate 1000-1000 mm Co. Black-Pho	66116588071 66116588071 66116588071 66116588074 66116588075 66116588076 66116589002 66116589002 66116589002 66116589002 66116589002 66116589002 66116589000
38 398 398 40 40 41 41 41 41 41 41 42 42 44 45 46 47 47 47 48 48 48 49 50 50 50 50 50 50 50 50 50 50 50 50 50	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	788533 788887 788887 788887 788869 788877 788805 788805 788805 788806 788806 788809 788810 788810 788810 788810 788810 788810 788810 788810 788810 788810 788810	08541A139 McMaster 00570A118 McMaster 00510A118 McMaster 00144A111 McMaster 0044A111 McMaster 0044A111 McMaster	8000-30 8000-37 8000-37 8000-37 81000-38A M10 81500-40 81500-40 81500-40 81500-46 81000-47 81000-48 82000-48 82000-48 82000-48 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-60 82000-60 82000-60 82000-60	Stop Foliay ** Listerma Relatining Foliay for 32 mm CO. Black-Phosphate Blood: 1000 Bloom m CO. Black-Phosphate Bloom: 1004 Bloom Storing Steel Load Chain Load Chair Load Chain	66116588071 66116588073 66116588074 66116588074 66116588075 66116580005 66116580005 66116580005 66116580006
38 38A 38A 38A 38A 38A 38A 48A 48B 48B 48B 48B 50A 50B 51	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	788533 788887 788888 788887 788889 788805 788905 788905 788906 788906 788907 788907 788907 788907 788910 788910 788911 788911 788911 788910 788910 788910	08541A139 McMaster 00570A118 McMaster 00510A118 McMaster 00144A111 McMaster 0044A111 McMaster 0044A111 McMaster	8000-36 8000-37 89027 81000-38A M10 £1500-40 £1500-40 £1500-44 £2000-45 £2000-45 £2000-45 £2000-45 £2000-48 £2000-50 £2000-50	Stop Foliay = Listerina Fedaming Foliay for 32 mm O.D. Black-Phosphate Blood: 1900 Bloom Mills Charles Stopping Steel Load Chain Load Pint Load Pint Load Pint Load Pint Load Real Stopping Steel Load Chain Load Real Stopping Steel Load Chain Load Real Stopping Steel Load Real Stopping Steel Load Real Stopping Steel Real Cap Stores Load Real Stopping Steel Real Top Steel Real Stopping Steel Real Top Steel Real Real Stopping Steel Real Real Stopping Steel Real Real Steel Real Real Stopping Steel Real Real Stopping Steel Real Real Steel Real Real Steel Real Real Steel Real Real Real Real Real Real Real R	66116588071 66116588071 66116588071 66116588074 66116588075 66116588076 66116589002 66116589002 66116589002 66116589002 66116589002 66116589002 66116589000
38 339A 339A 309B 40 41 41 41 41 41 42 43 44 45 46 47 47 47 47 47 47 50 50 50 50 51 51 52 53A 538 538 534	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	788533 788887 788887 788887 788869 788877 788805 788805 788805 788806 788806 788809 788810 788810 788810 788810 788810 788810 788810 788810 788810 788810 788810	08541A139 McMaster 00570A118 McMaster 00510A118 McMaster 00144A111 McMaster 0044A111 McMaster 0044A111 McMaster	8000-30 8000-37 8000-37 8000-37 81000-38A M10 81500-40 81500-40 81500-40 81500-46 81000-47 81000-48 82000-48 82000-48 82000-48 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-60 82000-60 82000-60 82000-60	Stop Finity = External Resistancy Finity for 32 at mm CO. Black-Phospharts (2000) 1000 1000 1000 1000 1000 1000 1000	66116588073 66116588074 66116588074 66116588075 66116588075 66116588075 66116580005 661165800075 661165800075 661165800076
38 398 398 40 40 41 41 41 41 42 42 44 44 45 46 47 47 47 47 47 47 47 47 47 47 47 47 47	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	788533 788887 788887 788887 788869 788877 788805 788805 788805 788806 788806 788809 788810 788810 788810 788810 788810 788810 788810 788810 788810 788810 788810	08541A139 McMaster 00570A118 McMaster 00510A118 McMaster 00144A111 McMaster 0044A111 McMaster 0044A111 McMaster	8000-30 8000-37 8000-37 8000-37 81000-38A M10 81500-40 81500-40 81500-40 81500-46 81000-47 81000-48 82000-48 82000-48 82000-48 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-40 82000-60 82000-60 82000-60 82000-60	Stop Finity = External Resistancy Finity for 32 at mm CO. Black-Phosphate 1000-1000 of Serving Steel Load Chain Load Steel Load Chain Load Chair Servine Load Steel Residency Sector Head Cop Screw Head Cop Screw Head Cop Screw Load Steel Head Cop Screw Load Steel Load Load Load Load Load Load Load Load	66116588073 66116588074 66116588074 66116588075 66116588075 66116588075 66116580005 661165800075 661165800075 661165800076

PCB2KWO	Quantity	Stock#	Reference	MODEL	DESCRIPTION	UPC
	0				Rivet = Low-Profile Flat Head Solid Rivets.	
1	8	788310	McMaster 97358A101	K500-1	0.119" Diameter, for 0.16" Maximum Material Thickness	661165883107
2	0 2	788918	9/358AIUI	K2000-2	Name Plate	661165889185
3A	0	788853	McMaster	K500-3A	Acorn Nut	661165888539
	0		99164A104 McMaster			
3В	6	788854	93279A400	K500-3B	Lock Washer	661165888546
5	2	788855		K500-4	Gear Cover Assembly Seal Type Caged Ball Bearing	661165888553
6	2	788919		Ø12xØ32x11	Spur Gear Assembly	661165889192
7	0	788856		K500-6	Load Gear	661165888560
8	0 2	788857 788858		K500-7 K500-8	Gear Side Plate Assembly	661165888577 661165888584
9	0 2	788859		Ø35xØ62x14	Seal Type Caged Ball Bearing	661165888591
10	2	788860		K500-10	Top Hook Shaft	661165888607
11	2	788884	McMaster	K500-11	Split Pin = Cotter Pin, Zinc-Plated Steel, 2.5mm Diameter, 25mm Long	661165888843
	0	700004	98350A215	1,00-11	Split Pin = Cotter Pin, Zinc-Plated Steel,	001103000043
12	4	788884	McMaster 98350A215	K500-11	2.5mm Diameter, 25mm Long	661165888843
13 14	1 0	788902 788903		K2000-13 K2000-14	Casting Safety Latch Assembly Top Hook Assembly	661165889024 661165889031
15	2	788822		HK1715(Ø24)	Needle Bearing	661165888225
16	2	788863	McMaster 98541A125	K500-16	C-Clip = External Retaining Ring for 24 mm OD, Black-Phosphate 1060-1090 Spring Steel	661165888638
17	2	788864		K500-17	Drive Shaft	661165888645
18	2	788904		Ø35xØ62x14	Seal Type Caged Ball Bearing	661165889048
19	2	788866		K500-19	Wheel Side Plate Assembly	661165888669
20	2	788827		K200-20	Disc Hub	661165888270
21	4	788867		K500-21	Pawl Spring Pawl	661165888676
	4 0	788773		K500-22	Snap Ring =External Retaining Ring for 10 mm OD, Black-Phosphate 1060-1090	661165887730
23	4 0	788774	McMaster 98541A118	K500-23	Spring Steel	661165887747
24	2 0	788868		K500-24	Dust Cover	661165888683
25 25L	0	788869		K500-25	Hand Chain Wheel	
	0	788935		OL1.5K	Overload Limiter Assembly	661165883954
26	2	788650	McMaster 93760A233 McMaster	K500-26	Pinion Nut	661165886504
27	0	788711	98350A260	K500-27	Split Pin = Cotter Pin, Zinc-Plated Steel, 3.2mm Diameter, 20mm Long	661165887112
28	2	788870		K500-28	Hand Wheel Cover Assembly	661165888706
29A	6	788414	McMaster	K300-3A	Acorn Nut	661165884142
298	0		99164A102 McMaster		Lock Washer	
30	6	788413	93279A200	K300-3B		661165884135
30	2 As Req'd	788746 788746		Ø5x25 Ø5x25	Connecting Link Hand Chain	661165887464 661165887464
32A	Per Foot 0			***	Anchor Pin	
32B	0	788871		K500-32A	Split Pin = Cotter Pin, Zinc-Plated Steel,	661165888713
	2	788308	McMaster 98350A160	K500-32B	2mm Diameter, 20mm Long	661165883084
33	2 0	788872		K500-33	Anchor Plate	661165888720
34 35	0	788873		K500-34	Load Sheave Stripper	661165888737
36	0	788874		K500-35	Guide Roller	661165888744
	0	788875		K500-36	Snap Ring = External Retaining Ring for 32 mm OD, Black-Phosphate 1060-1090	661165888751
37	2 As Reg'd	788533	McMaster 98541A139	K500-37	Spring Steel	661165885330
38 39A	As Req'd Per Foot	788887		Ø9X27	Load Chain Load Pin	661165888874
39B 40	0	788920		K2000-40	Lock Nut Bottom Hook Assembly	661165889208
41 41A	0				Socket Head Cap Screw Lock Washer	
41B 42	0				Hexagon Nut Hook Collar Assembly	
43 44	0 1 0	788921		K2000-44	Steel Ball Top Idle Shaft	661165889215
45	90	788922		4x30	Roller Pin	661165889222
46 47	3 1	788907 788908		K2000-46 K2000-47	Top Idle Sheave Top Hook Holder	661165889079 661165889086
47A 47B	0		·		Left Top Hook Holder Right Top Hook Holder	
48	2	788909	McMaster	K2000-48	Slotted baffle Socket Head Cap Screw = Fine-Thread Alloy Steel Socket Head Screw, M6 x 0.75	661165889093
4dA	4	788910	96144A111 McMaster	K2000-48A	mm Thread, 12 mm Long	661165889109
48B 49	4	788419 788923	93279A100	K025-3B K2000-49	Lock Washer Hook Shaft	661165884197 661165889239
50	6	788912	McMaster	K2000-50	Slotted baffle Socket Head Cap Screw = Fine-Thread	661165889123
50A	6	788910	96144A111	K2000-48A	Alloy Steel Socket Head Screw, M6 x 0.75 mm Thread, 12 mm Long	661165889109
50B	6	788419	McMaster 93279A100	K025-3B	Lock Washer	661165884197
	0	788913		K2000-51	Bottom Idle Sheave	661165889130
51		700913		K2000-51	Bottom Idle Shaft	661165889130
51 52	0 2	788974			Lock Nut	
	0 2 0 0	788924			Washer	
52 52A	0 2 0 0 0	788924			Washer Socket Head Cap Screw	
52 52A 52B 53	0 2 0 0 0 0 0	788924			Lock Nut	
52 52A 52B 53 53A 53B 53C	0 2 0 0 0			K2000-54	Lock Nut Lock Washer Hexagon Nut	6611658007E3
52 52A 52B 53 53A 53B	0 2 0 0 0 0 0	788924 788925		K2000-54	Lock Nut Lock Washer	661165889253
52 52A 52B 53 53A 53B 53C	0 2 0 0 0 0 0 0 0 0 0			K2000-54	Lock Nut Lock Washer Hexagon Nut	661165889253 661165889161

WARRANTY ON SUMNER EQUIPMENT

What Does This Warranty Cover?

Limited Lifetime Warranty on Sumner Equipment

Under Sumner's Equipment Limited Lifetime Warranty, Sumner Manufacturing Co., LLC warrants that all Sumner Equipment will be free from manufacturer defects for a Limited Lifetime except for moving parts deemed consumables from the date of the original end user's purchase. Products deemed as consumable products, components and parts such as steel cables, rollers, bearings, wheels, lift mast sections components are excluded from this Limited Lifetime Warranty and are subject to One -Year Limited Warranty terms. Sumner electrical components are excluded from this Limited Lifetime Warranty and are subject to One -Year Limited Warranty terms. Under this Limited Lifetime Warranty, the following are also excluded, and Sumner will have no liability for any of the following: normal wear and tear resulting from product use and damage arising out of misuse, abuse, modification, and improper product maintenance. This warranty also does not cover Sumner's Equipment products that have been modified by any party other than Sumner or its authorized third-party designee. This Limited Lifetime Warranty is not transferrable to or enforceable by any person other than the product's original end user.

Three-Year Limited Warranty on Pallet Jacks and Hydraulic Tools

Under Sumner's 3-Year Limited Warranty, Sumner Manufacturing Co., LLC warrants that all Sumner Pallet Jacks and Hydraulic Tools will be free from manufacturer defects for a period of three (3) years from the date of the original end user's purchase. Under this Three-Year Limited Warranty for Pallet Jacks and Hydraulic Tools, the following are excluded and Sumner Manufacturing Co., LLC will have no liability for any of the following: normal wear and tear resulting from product use and damage arising out of misuse, abuse, modification, and improper product maintenance. This warranty also does not cover Pallet Jacks and Hydraulic Tools that have been modified by any party other than Sumner Manufacturing Co., LLC or its authorized third-party designee. This 3-Year Limited Warranty is not transferrable to or enforceable by any person other than the product's original end user.

One-Year Limited Warranty on All Products

Under Sumner's 1-Year Limited Warranty, Sumner Manufacturing Co., LLC warrants that all products will be free from manufacturer defects for a period of one-year from the date of the original end user's purchase. Under this 1-Year Limited Warranty, Sumner Manufacturing Co., LLC will have no liability for any of the following: normal wear and tear resulting from product use and damage arising out of misuse, abuse, modification, and improper product maintenance. This warranty also does not cover Sumner Equipment that has been modified by any party other than Sumner Manufacturing Co., LLC or its authorized third-party designee. This 1-Year Limited Warranty is not transferable to or enforceable by any person other than the product's original end user.

Exclusion of Incidental, Consequential, Indirect, Special and Punitive Damages

SUMNER MANUFACTURING CO. LLC MAKES NO WARRANTY THAT SUMNER MANUFACTURING CO. LLC PRODUCTS WILL BE MERCHANTABLE OR FIT FOR ANY PARTICULAR PURPOSE. SUMNER MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, OTHER THAN THE RELEVANT WARRANTY SPECIFICALLY SET FORTH IN THIS WARRANTY SECTION. SOUTHWIRE WILL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES FOR ANY BREACH OF THIS LIMITED LIFETIME WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Warranty Claim Information/How Do You Get Service?

For all warranty, customer service, and product return authorizations and inquiries, please contact Sumner at:

Sumner Manufacturing Co., LLC 7514 Alabonson Road Houston, Texas 77088 Phone Number: 1.281.999.6900

Sumner – Canada 75 Saltman Drive, Unit 5 Cambridge, Ontario N3H 4R7 Phone Number: 1.519.651.5300

Sumner – U.K.
Unit 3 Kepton Road
Keytec 7 Business Park
Pershore Worcestershire
WR10 2TA, UK
Phone Number: +44 (0) 1386 556278

Sumner – Netherlands Handelsweg 26 3881LS Putten The Netherlands

Phone Number: +31 (0) 85 489 0284

- 1. All warranty claims must be approved by Sumner's Warranty Department prior to return of product. If Sumner determines that a product is defective, Sumner will, at its option, repair or replace defective products or defective product components, free of charge.
- 2. Upon approval, Sumner will issue a Product Return Authorization Form which will include instructions on how and where to return the product. The product serial number and the original date of delivery must be set forth on the Product Return Authorization Form.
- 3. Sumner will cover standard freight charges (Courier Ground rate) incurred in connection with products that Sumner ultimately determines to be defective.
- 4. All defective components and defective products that Sumner replaces under these Warranties will become Sumner's property and will be retained by Sumner.

Repair Your Product When it is Out of Warranty

Southwire is happy to provide information about where a purchaser can send a product for repair at consumers' own expense, please contact 1.281.999.6900 or visit *www.sumner.com* for more information about servicing for Sumner Products.

31

NOTES