

CX HAND CHAIN HOIST

CE

OWNER'S MANUAL 1/4 Ton and 1/2 Ton Capacity Effective: May 9, 2017

This equipment should not be installed, operated or maintained by any person who has not read and understood all the contents of this manual. Failure to read and comply with the contents of this manual can result in serious bodily injury or death, and/or property damage. Record the lot and serial number in the space provided below.

Lot Number:	
Serial Number:	

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1.0 Important Information and Warnings

1.1 Terms and Summary

This manual provides important information for personnel involved with the installation, operation and maintenance of this product. Although you may be familiar with this or similar equipment, it is strongly recommended that you read this manual before installing, operating or maintaining the product.

Danger, Warning, Caution and Notice – Throughout this manual there are steps and procedures that can present hazardous situations. The following signal words are used to identify the degree or level of hazard seriousness.

⚠ DANGER

Danger indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury, and property damage.

AWARNING

Warning indicates an imminently hazardous situation which, if not avoided, *could* result in *death or serious injury*, and property damage.

A CAUTION

Caution indicates a potentially hazardous situation which, if not avoided, *may* result *minor or moderate injury* or property damage.

NOTICE

Notice is used to notify people of installation, operation, or maintenance information which is important but not directly hazard-related.

This manual chain hoist is designed and manufactured to lift and lower a load manually within a normal work environment. Movement in the horizontal direction is also enabled by combining with a trolley. The operation of a hoist involves more than activating the hoist's controls. Per the ANSI/ASME B30 standards, the use of a hoist is subject to certain hazards that cannot be mitigated by engineered features, but only by the exercise of intelligence, care, common sense, and experience in anticipating the effects and results of activating the hoist's controls. Use this guidance in conjunction with other warnings, cautions, and notices in this manual to govern the operation and use of your hoist.

1.2 Shall's and Shall Not's for Operation

AWARNING

Improper operation of a hoist can create a potentially hazardous situation which, if not avoided, could result in <u>death</u> or <u>serious injury</u>, and substantial property damage. To avoid such a potentially hazardous situation **THE OPERATOR SHALL:**

- · NOT use hoist before reading Owner's Manual.
- NOT lift more than rated load for the hoist.
- <u>NOT</u> operate a hoist which has been modified without the manufacturer's approval or certification to be in conformity with applicable OSHA regs.
- <u>NOT</u> operate hoist when it is restricted from forming a straight line from hook to hook in the direction of loading.
- NOT use hoist with twisted, kinked, damaged, or worn chain.
 NOT use damaged hoist or hoist that is not working properly.
- NOT operate a malfunctioning or unusually performing hoist.
- NOT use the hoist to lift, support, or transport people.
- **NOT** lift loads over people.
- **NOT** remove or obscure the warnings on the hoist.
- <u>NOT</u> use load chain as a sling or wrap load chain around load.
- NOT use in a way that causes either hook to be side loaded.
 NOT apply the load to the tip of the hook or to the hook latch.
- NOT use hoist if hook latch is missing or malfunctioning.
- <u>NOT</u> apply load unless load chain is properly seated in the load sheave.
- <u>NOT</u> use the hoist in such a way that could result in shock or impact loads being applied to the hoist.
- NOT attempt to lengthen the load chain or repair damaged load

- <u>NOT</u> leave load supported by the hoist unattended unless specific precautions have been taken.
- <u>NOT</u> allow the chain, or hook to be used as an electrical or welding ground.
- <u>NOT</u> allow the chain, or hook to be touched by a live welding electrode.
- **NOT** operate a hoist on which the safety placards or decals are missing or illegible.
- · Be familiar with operating controls, procedures, and warnings.
- Make sure the unit is securely attached to a suitable support before applying load.
- Make sure load slings or other approved single attachments are properly sized, rigged, and seated in the hook saddle.
- Take up slack carefully make sure load is balanced and loadholding action is secure before continuing.
- Make sure all persons stay clear of the supported load.
- Protect the hoist's load chain from weld splatter or other damaging contaminants.
- Report Malfunctions or unusual performances (including unusual noises) of the hoist and remove the hoist from service until the malfunction or unusual performance is resolved.
- · Warn personnel before lifting or moving a load.

chain or hand chain.

· NOT operate beyond the limits of the load chain travel.

· Warn personnel of an approaching load.

A CAUTION

Improper operation of a hoist can create a potentially hazardous situation which, if not avoided, could result in minor or moderate injury, or property damage. To avoid such a potentially hazardous situation **THE OPERATOR SHALL:**

- Maintain a firm footing or be otherwise secured when operating the hoist.
- Check brake function by tensioning the hoist prior to each lift operation.
- Use hook latches. Latches are to retain slings, chains, etc. under slack conditions only.
- Make sure the hook latches are closed and not supporting any parts of the load.
- Make sure the load is free to move and will clear all obstructions.
- · Avoid swinging the load or hook.
- Make sure hook travel is in the same direction as shown on controls.
- Inspect the hoist regularly, replace damaged or worn parts, and keep appropriate records of maintenance.

- Use the hoist manufacturer's recommended parts when repairing the unit.
- Lubricate load chain per hoist manufacturer's recommendations.
- <u>NOT</u> allow your attention to be diverted from operating the hoist.
- <u>NOT</u> allow the hoist to be subjected to sharp contact with other hoists, structures, or objects through misuse.
- <u>NOT</u> adjust or repair the hoist unless qualified to perform such adjustments or repairs.
- NOT use the hoist load limiting or warning device to measure load.
- <u>NOT</u> operate except with manual power
- <u>NOT</u> permit more than one operator to pull on a single hand chain at the same time. More than one operator is likely to cause hoist overload.

2.0 Technical Information

2.1 Specifications

2.1.1 Operating Conditions and Environment:

Temperature Range: -40° to +140°F

(-40° to +60°C)

Humidity: 100% or less

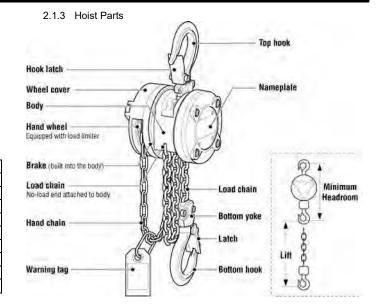
This is not underwater device.

Material: No special materials such as spark resistant and asbestos.

Do Not Use: In an alkaline/acidic or an organic solvent/explosive atmosphere.

2.1.2 Hoist Specifications:

Product Code		CX003	CX005
Ca	apacity (Ton)	1/4	1/2
Head	droom C (in.)	8.5	10.2
Sta	ndard Lift (ft)	10 or 20	10 or 20
Pull to Lift Rated Load (lbs)		33	42
Ov	Overhaul Ratio		43
Load Chain Dia.	Load Chain Dia. x Pitch (mm)		4.3 x 12.0
Cha	ain Fall Lines	1	1
Not Weight/lba)	10 ft Lift	7	10
Net Weight(lbs)	20 ft Lift	10	16



3.0 Preoperational Procedures

3.1 Mounting Location

3.1.1 **AWARNING** Prior to mounting the hoist ensure that the suspension and the supporting structure are adequate to support the hoist and its loads. If necessary consult a professional that is qualified to evaluate the adequacy of the suspension location and its supporting structure. The maximum force which can be applied to the supporting structure is 2.4 times the rated capacity.

3.2 Mounting the Hoist

- 3.2.1 Manual Trolley Follow instructions in Owner's Manual provided with the trolley.
- 3.2.2 Hook Mounted to a Fixed Location Attach the hoist's top hook to the fixed suspension point.
- 3.2.3 **TWARNING** Ensure that the fixed suspension point rests on the center of the hook's saddle and that the hook's latch is engaged.

3.3 Preoperational Checks and Trial Operations

- 3.3.1 **AWARNING** Confirm the adequacy of the rated capacity for all slings, chains, wire ropes and all other lifting attachments before use. Inspect all load suspension members for damage prior to use and replace or repair all damaged parts.
- 3.3.2 Measure and record the "k" dimension of the top and bottom hook. See Table 5-4 under Section 5.0, "Inspection".
- 3.3.3 Record the hoist's Code, Lot and Serial Number (from the name plate on the hoist; see Section 2.1.4) in the space provided on the cover of this manual.
- 3.3.4 Ensure that the hoist is properly installed to a fixed point.
- 3.3.5 Ensure that all nuts and bolts are sufficiently fastened.

- 3.3.6 Confirm proper operation:
 - Before operating read and become familiar with Section 4 Operation.
 - Before operating ensure that the hoist meets the Inspection, Testing and Maintenance requirements of ANSI/ASME B30.16.
 - Before operating ensure that nothing will interfere with the full range of the hoist's operation.

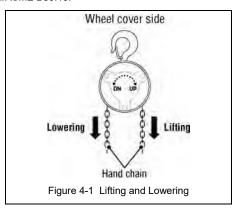
4.0 Operation

4.1 Introduction

4.1.1 **AWARNING** HOIST OPERATORS SHALL BE REQUIRED TO READ THE OPERATION SECTION OF THIS MANUAL, THE WARNINGS CONTAINED IN THIS MANUAL, INSTRUCTION AND WARNING LABELS ON THE HOIST OR LIFTING SYSTEM, AND THE OPERATION SECTIONS OF ANSI/ASME B30.16 and ANSI/ASME B30.10.

4.2 Lifting and Lowering

- 4.2.1 Refer to the arrows and text on the hand wheel cover see Figure 4-1.
- 4.2.2 To **LIFT** the Load When facing the hand wheel side of the hoist, pull down on the **RIGHT** side hand chain.
- 4.2.3 To **LOWER** the Load When facing the hand wheel side of the hoist, pull down on the **LEFT** side hand chain.
- 4.2.4 **AWARNING** This product is designed for a rated load to be hoisted by pulling the hand chain with a force of 33 lb (15kg) or less. Do NOT pull on the hand chain with a force greater than 33 lb (15kgf). Stop using the hoist and consult a qualified person if the a load of 1/4 Ton or less cannot be lifted with a pull force of 33 lb (15kgf) or less.



5.0 Inspection

- **5.1 Initial Inspection** Prior to initial use, all new, altered, or modified hoists shall be inspected by a designated person to ensure compliance with the applicable provisions of this manual.
- 5.2 Inspection Classification The inspection procedure herein is based on ANSI/ASME B30.16. Inspections for hoists in regular service are divided into FREQUENT and PERIODIC groups based upon the intervals at which inspection should be performed. The intervals in turn are dependent upon the degree of service and usage the hoists are subjected to. The two general classifications are herein designated as FREQUENT and PERIODIC, with respective intervals between inspections as defined in Table 4-1.

Table 5-1 Inspection Intervals					
Service	FREQUENT Inspection	PERIODIC Inspection			
Normal Service	Monthly	Yearly			
Heavy Service	Weekly to Monthly	Semiannually			
Severe Service	Daily to Weekly	Quarterly			
Special or Infrequent Service	As recommended by a qualified person before and after each occurrence.	As recommended by a qualified person before the first such occurrence and as directed by the qualified person for any subsequent occurrences.			

5.3 Frequent Inspection

5.3.1 Inspections should be made on a FREQUENT basis in accordance with Table 5-2, "Frequent Inspection." Included in these FREQUENT Inspections are observations made during operation for any defects or damage that might appear between Periodic Inspections. Evaluation and resolution of the results of FREQUENT Inspections shall be made by a designated person such that the hoist is maintained in safe working condition.

Table 5-2 Frequent Inspection		
All functional operating mechanisms for proper operation and adjustment, maladjustment and unusual sounds.		
Hoist braking system for proper operation		
Hooks and latches in accordance with ANSI/ASME B30.10		
Hook latch operation		
Load chain in accordance with Section 5.5		
Hoist support for damage		

5.4 Periodic Inspection

5.4.1 Inspections should be made on a PERIODIC basis in accordance with Table 5-3, "Periodic Inspection." Evaluation and resolution of the results of PERIODIC Inspections shall be made by a designated person such that the hoist is maintained in safe working condition. 5.4.2 For inspections where load suspension parts of the hoist are disassembled, a load test per ANSI/ASME B30.16 must be performed on the hoist after it is re-assembled and prior to its return to service.

Table 5-3 Periodic Inspection
Requirements of frequent inspection.
Evidence of loose bolts, nuts, or rivets.
Evidence of worn, corroded, cracked, or distorted parts such as suspension housing, chain attachments, yokes, suspension bolts, shafts, gears, bearings, pins, rollers and locking and clamping devices.
Evidence of damage to hook retaining nuts or collars and pins, and welds or rivets used to secure the retaining members.
Evidence of damage or excessive wear of load sheave.
Evidence of worn, glazed or oil contaminated friction disks; worn pawls, cams or ratchet; corroded, stretched, or broken pawl springs in brake mechanism.
Evidence of damage to supporting structure.
Function label on hoist for legibility.
Warning label properly attached to the hoist and legible (see Section 8.0, Fig. No. 33).
End connections of load chain stopper link.

5.5 Inspection Methods and Criteria

- 5.5.1 This section covers the inspection of specific items. The list of items in this section is based on those listed in ANSI/ASME B30.16 for the Frequent and Periodic Inspection.
- 5.5.2 Frequent Inspection Not intended to involve disassembly of the hoist. Disassembly for further inspection would be required if only if frequent inspection results so indicate. Disassembly and further inspection should only be performed by a qualified person trained in the disassembly and re-assembly of the hoist.
- 5.5.3 Periodic Inspection Disassembly of the hoist is required. Disassembly should only be performed by a qualified person trained in the disassembly and re-assembly of the hoist.

	Table 5-4 Hoist Inspection Methods and Criteria						
Item	Method	Criteria	Action				
Functional operating mechanisms.	Visual, Auditory	Mechanisms should be properly adjusted and should not produce unusual sounds when operated. Components should not be deformed, scarred or show significant wear.	Repair or replace as required.				
Braking System - Components	Visual	Brake Pawl, Pawl Shaft, Pawl Spring, Friction Disc and Ratchet Disc should not be deformed scarred or show significant wear.	Replace				
Braking System – Friction Plate	Visual, Measure	The surface of the friction plate should be free of grease, oil, scars, gouges and wear and have uniform thickness. The thickness of both plates together should not be less than the discard value listed in Table 5-7.	Replace				
Housing Mechanical and Lifting System – Components	Visual, Auditory, Function	Hoist components including load blocks, suspension housing, chain attachments, clevises, yokes, suspension bolts, shafts, gears, bearings, pins and rollers should be free of cracks, distortion, significant wear and corrosion. Evidence of same can be detected visually or via detection of unusual sounds during operation.	Replace.				
Hooks – Condition	Visual	Should be free of gouges, dents, weld splatter, significant corrosion, twists, deformations, significant wear, dirt and grime. Hook should swivel freely.	Replace.				
Hooks – Fretting wear	Measure	The "u" and "t" dimensions should not be less than the discard value listed in Table 5-5.	Replace.				
Hooks – Stretch	Measure	The "k" dimension should not be greater than 1.05 times that measured and recorded at the time of purchase (See Section 3.1). If recorded "k" values are not available for hooks when new, use nominal "k" values from Table 5-5.	Replace.				
Hooks – Hook Latches	Visual, Function	Latch should not be deformed. Attachment of latch to hook should not be loose or stiff. Latch spring should not be missing and should not be weak.	Replace.				
Hooks – Yoke Assembly	Visual	Should be free of significant rust, weld splatter, nicks, and gouges. Holes should not be elongated, fasteners should not be loose (Refer to figure in Section 8.0), and there should be no gap between mating parts.	Torque or replace as required.				
Yoke – Hole Deformation	Visual, Measure	The "D" dimension of the top pin hole should not be greater than the discard value listed in Table 5-8.	Replace Hook Set				
Top Pin – Deformation	Visual, Measure	The top pin should be free of scars or significant deformation. The "E" dimension should not be less than discard value listed in Table 5-9.	Replace				
Load Chain – Surface Condition, Lubrication	Visual	Should be free of gouges, nicks, dents, weld splatter and corrosion. Links should not be deformed, and should not show signs of abrasion. Surfaces where links bear on one another should be free of significant wear. Entire surface should be coated with lubricant and should be free of dirt and grime.	Replace (only with load chain listed in parts list).				
Load Chain – Pitch and Wire Diameter	Measure	The "P" dimension should not be greater than discard value listed in Table 5-6. The "d" dimension should not be less than discard value listed in Table 5-6.	Replace (see above). Inspect load sheave.				
Bolts, Nuts and Rivets	Visual, Check with Proper Tool	Bolts, nuts and rivets should not be loose, deformed or corroded.	Tighten or replace as required.				

Table 5-4 Hoist Inspection Methods and Criteria – Continued					
Item Method Criteria					
Load Sheave	Visual	Pockets of Load Sheave should be clean and free of significant wear.	Replace.		
Warning Labels	Visual	Warning Labels should be affixed to the hoist and they should be legible. (see Section 8.0, Figure Number 33)	Replace.		
Hoist Capacity Label	Visual	The label that indicates the capacity of the hoist should be legible and securely attached to the hoist.	Replace.		

Table 5-5 Top Hook & Bottom Hook Dimensions								
"k" Measured When New:	1.9	Product Code	Nominal "k" Dimension*		nension (mm)	"t" Dim inch	ension (mm)	
R Weddied Wileit New.	(K, V)	0000	inch (mm)	Standard	Discard	Standard	Discard	
Top:		CX003	1.54 (39)	0.49 (12.5)	0.47 (11.9)	0.43 (11.0)	0.41 (10.5)	
Bottom:	1	CX005	1.79 (45.5)	0.59 (15)	0.56 (14.3)	0.47 (12.0)	0.45 (11.4)	

^{*} These values are nominal since the dimension is not controlled to a tolerance. The "k" dimension should be measured when the hook is new - this becomes a reference measurement. Subsequent measurements are compared to this reference to make determinations about hook deformation/stretch. See Section 5-5, "Hooks - Stretch".

Table 5-6 Chain Wear Dimensions								
P = 5 links	Product Code	"P" inch (mm)		"d" inch (mm)				
STATE OF THE STATE OF THE		Standard	Discard	Standard	Discard			
	CX003	1.79 (45.5)	1.84 (46.8)	0.126 (3.2)	0.11 (2.9)			
a∱	CX005	2.38 (60.5)	2.45 (62.3)	0.17 (4.3)	0.15 (3.9)			

Table 5-7 Friction Plate Dimension "t"						
Two plates	Product Code	Standard inch (mm)	Discard inch (mm)			
	CX003	0.20 (5.0)	0.18 (4.5)			
	CX005	0.20 (5.0)	0.18 (4.5)			

Table 5-9 End Pin Dimension "d"						
	Product Code	Standard inch (mm)	Discard inch (mm)			
() d	CX003	0.154 (3.9)	0.146 (3.7)			
	CX005	0.197 (5.0)	0.189 (4.8)			

Table 5-8 Top Pin Hole Dimensions "D"				
0	Product Code	Standard inch (mm)	Discard inch (mm)	
0=0	CX003	0.33 (8.3)	0.35 (8.8)	
1	CX005	0.41 (10.3)	0.43 (10.8)	

Table 5-9 Top Pin Dimension "E"				
n +	Product Code	Standard inch (mm)	Discard inch (mm)	
E-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	CX003	0.31 (8.0)	0.30 (7.6)	
	CX005	0.39 (10)	0.38 (9.6)	

Table 5-8 Brake Bushing					
	Product Code	Standard inch (mm)	Discard inch (mm)		
	CX003	0.063 (1.6)	0.055 (1.4)		
	CX005	0.083 (2.1)	0.075 (1.9)		

Table 5-8 Bottom Pin Hole Dimensions "d"				
P	Product Code	Standard inch (mm)	Discard inch (mm)	
	CX005	0.41 (10.3)	0.43 (10.8)	

Table 5-9 Bottom Pin Dimension "d"				
0	Product Code	Standard inch (mm)	Discard inch (mm)	
	CX005	0.20 (5.0)	0.18 (4.5)	

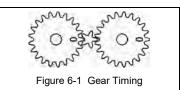
6.0 Maintenance

- 6.1 For hoist maintenance or storage, comply with the following points.
 - 6.1.1 **DANGER** Do not lubricate the friction plate of the mechanical brake.
 - 6.1.2 A CAUTION
 - Always ensure that lubricant is applied to the load chain, the top pin, the hook necks, the hook latches and the select lever. Refer to Section 2.1.4 "Hoist Parts".
 - Do not store the hoist under a load.
 - Remove any dirt or water on the hoist.
 - Store the hoist in a dry and clean area.

- Possibility of corrosion on components of the hoist increases for installations where salt air and high humidity are present. Make frequent and regular inspections of the hoist's condition and operation.
- Perform all inspections given in "5.0 Inspection" if irregularity of the hoist is found after operation

6.2 Disassembly/Assembly

- 6.2.1 When re-assembling the hoist, refer to parts list figure in Section 8.0 for the proper component placement and orientation.
- 6.2.2 Load Limiter Do NOT attempt to disassemble or adjust the Load Limiter built into the Hand Wheel Assembly. Replace the Hand wheel as an assembly with a new, factory adjusted part
- 6.2.3 Gear timing Installing the Gear #2's with the timing marks "O" oriented as shown in Figure 6-1.
- 6.2.4 AWARNING Make certain the no-load end Load Chain is not twisted when attached to the hoist body. See Section 2-1-4 for attachment point.



7.0 Warranty

All products sold by Harrington Hoists, Inc. are warranted to be free from defects in material and workmanship from date of shipment by Harrington for the following periods:

1 year - Electric and Air Powered Hoists (excluding (N)ER2 Enhanced Features
 Models), Powered Trolleys, Powered Tiger Track Jibs and Gantries,
 Crane Components, Below the Hook Devices, Spare / Replacement Parts

2 years - Manual Hoists & Trolleys, Beam Clamps

3 years - (N)ER2 Enhanced Features Model Hoists

5 years - Manual Tiger Track Jibs and Gantries, TNER Pull - Rotor Motor Brake

10 years - (N)ER2 "The Guardian" Smart Brake

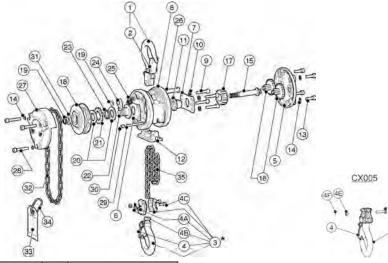
The product must be used in accordance with manufacturer's recommendations and must not have been subject to abuse, lack of maintenance, misuse, negligence, or unauthorized repairs or alterations.

Should any defect in material or workmanship occur during the above time period in any product, as determined by Harrington Hoist's inspection of the product, Harrington Hoists, Inc. agrees, at its discretion, either to replace (not including installation) or repair the part or product free of charge and deliver said item F.O.B. Harrington Hoists, Inc. place of business to customer.

Customer must obtain a Return Goods Authorization as directed by Harrington or Harrington's published repair center prior to shipping product for warranty evaluation. An explanation of the complaint must accompany the product. Product must be returned freight prepaid. Upon repair, the product will be covered for the remainder of the original warranty period. Replacement parts installed after the original warranty period will only be eligible for replacement (not including installation) for a period of one year from the installation date. If it is determined there is no defect, or that the defect resulted from causes not within the scope of Harrington's warranty, the customer will be responsible for the costs of returning the product.

Harrington Hoists, Inc. disclaims any and all other warranties of any kind expressed or implied as to the product's merchantability or fitness for a particular application. Harrington will not be liable for death, injuries to persons or property or for incidental, contingent, special or consequential damages, loss or expense arising in connection with the use or inability whatever, regardless of whether damage, loss or expense results from any act or failure to act by Harrington, whether negligent or willful, or from any other reason.





* Bottom Hook Fasteners CX003:

- Torque to 19 – 27 lb_f - in.

- Use Loctite®

Threadlocker 241 or 242

Figure			Parts	Part N	t Number	
	0.	Part Name	Per Hoist	CX003	CX005	
	1	Top Hook Assembly	1	L1XA0031001	L1XA0051001	
	2	Latch Assembly	1	L1XA0031071	L1XA0059071	
3	*	Bottom Hook Assembly	1	L1XA0031021	L1XA0051021	
	4	Latch Assembly	1	L1XA0031071	L1XA0059071	
4A		Spring Lock Washer	2	9012707		
	4B	Hex Nut	2	9093414		
	4C	Socket Head Cap Screw	2	9091203		
4	D	Chain Pin	1		L1LA0059041	
4	E	Slotted Nut	1		L1LA0059049	
4	F	Split Pin	1		J1PW01016008	
	5	Gear Case Assembly with Nameplate	1	C1XU0035103	C1XU0055103	
(3	Frame A	1	C1XA0039101	C1XA0059101	
	7	Frame B	1	C1XA0039102	C1XA0059102	
8	3	Body Assembly	1	C1XA0036104	C1XA0056104	
9	9	Socket Head Cap Screw	4	9091330	J1BE10503522	
1	0	Spring Lock Washer	4	9798003	9798003	
1	1	Load Sheave	1	C1XA0039116	C1XA0059116	
1	2	Chain Guide	1	C1XA0039162	C1XA0059162	
1	3	Socket Head Cap Screw	4	9091328	J1BE20501515	
1	4	Conical Lock Washer	7	C1XA0039109	C1XA0039109	
1	5	Pinion	1	C1XA0039111	C1XA0059111	
1	6	Gear #2	2	C1XA0039112	C1XA0059112	
1	7	Load Gear	1	C1XA0039114	C1XA0059114	
1	8	Hand Wheel Assembly w/Load Limiter	1	C1XA0035115	C1XA0055115	
1	9	Snap Ring	2	9047109	9047109	
2	:0	Friction Plate	2	C1XA0039151	C1XA0059151	
2	11	Ratchet Disc	1	C1XA0039152	C1XA0059152	
2	2	Friction Disc	1	C1XA0039153	C1XA0059153	
2	3	Bushing	1	C1XA0039154	C1XA0059154	
2	4	Pawl	1	C1XA0039155	C1XA0039155	

Figure		Parts	Part Number		
No. Part Name		Per Hoist	CX003	CX005	
25	Pawl Spring Assy (2 springs)	1	C1XA0035179	C1XA0055179	
26	Top Pin	1	C1XA0039163	C1XA0059163	
27	Wheel Cover	1	C1XA0039171	C1XA0059171	
28	Socket Head Cap Screw	3	9091331	J1BE20503522	
29	End Pin	1	C1XA0039177	C1XA0059177	
30	Hexagon Socket Set Screw	1	J1TB01105008	J1TB01106008	
31	Cam Guide	1	C1XA0039203	C1XA0039203	
32 **	Hand Chain - For 10 Ft Lift	1	6085301	6085303	
32	Hand Chain - For 20 Ft Lift	1	6085302	6085304	
33	Warning Tag	1	WTAG9	WTAG9	
34	Chain Stopper Link	1	L5BA0089045	L5BA0089045	
35	Load Chain	FT	LCLX003NP	LCLX005NP	



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