



Operating Instructions and Parts Manual

Electric Hoist

Models SS-1C, SS-3C



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Warranty and Service

JET warrants every product it sells against manufacturers' defects. If one of our tools needs service or repair, please contact Technical Service by calling 1-800-274-6846, 8AM to 5PM CST, Monday through Friday.

Warranty Period

The general warranty lasts for the time period specified in the literature included with your product or on the official JET branded website.

- JET products carry a limited warranty which varies in duration based upon the product. (See chart below)
- Accessories carry a limited warranty of one year from the date of receipt.
- Consumable items are defined as expendable parts or accessories expected to become inoperable within a reasonable amount of use and are covered by a 90 day limited warranty against manufacturer's defects.

Who is Covered

This warranty covers only the initial purchaser of the product from the date of delivery.

What is Covered

This warranty covers any defects in workmanship or materials subject to the limitations stated below. This warranty does not cover failures due directly or indirectly to misuse, abuse, negligence or accidents, normal wear-and-tear, improper repair, alterations or lack of maintenance. JET woodworking machinery is designed to be used with Wood. Use of these machines in the processing of metal, plastics, or other materials outside recommended guidelines may void the warranty. The exceptions are acrylics and other natural items that are made specifically for wood turning.

Warranty Limitations

Woodworking products with a Five Year Warranty that are used for commercial or industrial purposes default to a Two Year Warranty. Please contact Technical Service at 1-800-274-6846 for further clarification.

How to Get Technical Support

Please contact Technical Service by calling 1-800-274-6846. **Please note that you will be asked to provide proof of initial purchase when calling.** If a product requires further inspection, the Technical Service representative will explain and assist with any additional action needed. JET has Authorized Service Centers located throughout the United States. For the name of an Authorized Service Center in your area call 1-800-274-6846 or use the Service Center Locator on the JET website.

More Information

JET is constantly adding new products. For complete, up-to-date product information, check with your local distributor or visit the JET website.

How State Law Applies

This warranty gives you specific legal rights, subject to applicable state law.

Limitations on This Warranty

JET LIMITS ALL IMPLIED WARRANTIES TO THE PERIOD OF THE LIMITED WARRANTY FOR EACH PRODUCT. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

JET SHALL IN NO EVENT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERTY, OR FOR INCIDENTAL, CONTINGENT, SPECIAL, OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF OUR PRODUCTS. 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.

JET sells through distributors only. The specifications listed in JET printed materials and on official JET website are given as general information and are not binding. JET reserves the right to effect at any time, without prior notice, those alterations to parts, fittings, and accessory equipment which they may deem necessary for any reason whatsoever. JET® branded products are not sold in Canada by JPW Industries, Inc.

Product Listing with Warranty Period

| |
|--|
| 90 Days – Parts; Consumable items |
| 1 Year – Motors; Machine Accessories |
| 2 Year – Metalworking Machinery; Electric Hoists, Electric Hoist Accessories; Woodworking Machinery used for industrial or commercial purposes |
| 5 Year – Woodworking Machinery |
| Limited Lifetime – JET Parallel clamps; VOLT Series Electric Hoists; Manual Hoists; Manual Hoist Accessories; Shop Tools; Warehouse & Dock products; Hand Tools; Air Tools |

NOTE: JET is a division of JPW Industries, Inc. References in this document to JET also apply to JPW Industries, Inc., or any of its successors in interest to the JET brand.

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Warnings

1. Read and understand the entire owner's manual before attempting assembly or operation.
2. Read and understand the warnings posted on the machine and in this manual. Failure to comply with all of these warnings may cause serious injury.
3. Replace the warning labels if they become obscured or removed.
4. This chain hoist is designed and intended for use by properly trained and experienced personnel only. If you are not familiar with the proper and safe operation of a chain hoist, do not use until proper training and knowledge have been obtained.
5. Do not use this chain hoist for other than its intended use. If used for other purposes, JET disclaims any real or implied warranty and holds itself harmless from any injury that may result from that use.
6. Do not install this chain hoist where explosive hazards may exist.
7. Give your work undivided attention. Looking around, carrying on a conversation and "horse-play" are careless acts that can result in serious injury.
8. Do not use to lift people, or loads over people. Warn others in the vicinity when lifting or transporting a load. Avoid swinging load and hook.
9. Do not exceed the rated capacity of the chain hoist.
10. Make sure limit switches are operating properly. Do not use limit switches as routine operating stops; they are emergency devices only.
11. Do not use the load chain as a sling; this may cause damage to the chain.
12. Maintain firm footing when operating the hoist.
13. Always inspect the chain hoist for damage prior to use. Do not use a chain hoist with twisted, kinked, worn or otherwise damaged chain. If the chain hoist is damaged, do not use until it has been repaired or replaced.
14. Do not use more than one chain hoist to lift or move a load. If this is unavoidable, *each* chain hoist must have the same capacity as the load to be moved.
15. Never allow the load chain to "set" over sharp edges. All lifts must be made with straight chain that is free of obstacles.
16. Do not use a chain hoist unless load is centered between top and bottom hooks.
17. Protect load chain from weld splatter and other contaminants. Do not allow the hook or chain to be contacted by a live welding electrode.
18. 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.
19. Leave all internal maintenance to a qualified Walter Meier service center.
20. Replace the chain with factory replacement chain only. Do not use any other type of chain.
21. Never use the chain 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 chain hoist back into service.
22. Do not operate this hoist while tired or under the influence of drugs, alcohol or any medication.
23. Understand and follow all procedures as set forth in American National Standards titled "Performance Standard for Electric Chain Hoists." ANSI/ASME HST-1. This standard is available through the American Society of Mechanical Engineers, www.asme.org.

Familiarize yourself with the following safety notices used in this manual:

CAUTION This means that if precautions are not heeded, it may result in minor injury and/or possible machine damage.

WARNING This means that if precautions are not heeded, it may result in serious injury or possibly even death.

Introduction

This manual is provided by JET covering the safe operation and maintenance procedures for a JET Electric Chain Hoist. This manual contains instructions on installation, safety precautions, general operating procedures, maintenance instructions and parts breakdown. This machine has been designed and constructed to provide consistent, long-term operation if used in accordance with instructions set forth in this manual. If there are any questions or comments, please contact either your local supplier or JET. JET can also be reached at our web site: www.jettools.com.

Description

JET electric chain hoist models SS-1C and SS-3C are available in a variety of voltages and lifting and traversing configurations. Model SS-1C features single lift speed, 115/230V 60Hz single-phase power requirement. Model SS-3C features single lift speed, 230/460V three-phase power requirement.

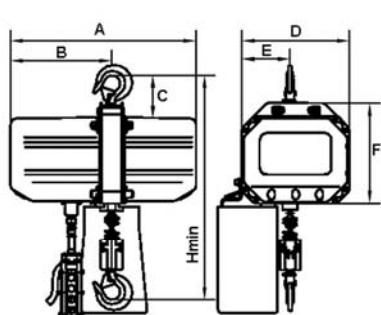
The SS-series chain hoists comply with OSHA and ANSI/ASME B30.16 and HST-1 standards.

All chain hoists are available in custom configurations to meet your specifications. Contact your dealer or JET for more information.

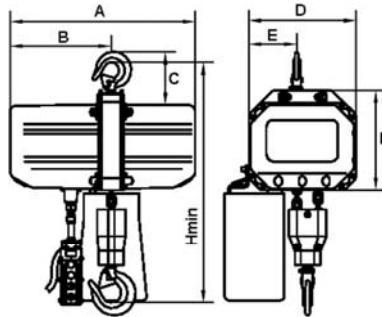
Record your purchase information here for quick reference:

| | | |
|-----------------|------------|-----------------|
| Model No.: | Stock No.: | Serial No.: |
| Purchased From: | | Date Purchased: |
| Date Installed: | | Installer: |

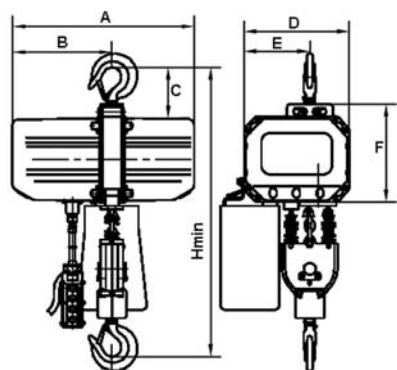
Specifications – Single Phase



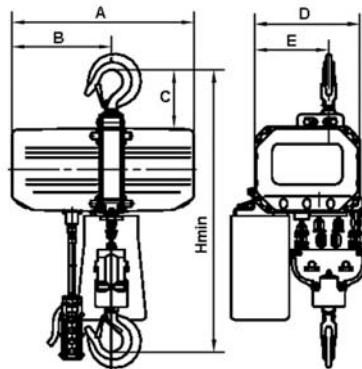
1/2SS-1C 1SS-1C



2SS-1C



3SS-1C



5SS-1C

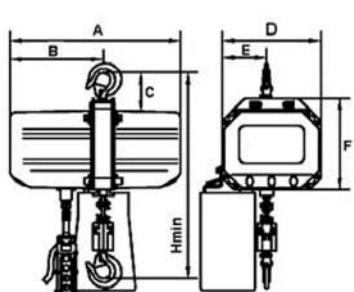
Available in 10', 15' and 20' lifts.

| Model | Rated Cap'y (ton) | Hoisting Speed (f/min.) | Headroom (in.) | Motor | Duty Cycle Rating | No. of Falls | Load Chain (mm) | Net Wt. (lbs.) | A | B | C | D | E | F | Hmin. |
|----------|-------------------|-------------------------|----------------|-----------------------|-------------------|--------------|-----------------|----------------|-------|------|------|-------|------|-------|-------|
| 1/2SS-1C | 1/2 | 19.70 | 20.16 | .87HP, 115/230 V 60Hz | H3 (25%)* | 1 | 6.3x19 | 102.5 | 17.72 | 9.84 | 4.09 | 10.24 | 4.43 | 9.45 | 20.16 |
| 1SS-1C | 1 | 19.70 | 24.41 | 1 | | | 149.91 | | | 4.67 | | 5.28 | | 24.41 | |
| 2SS-1C | 2 | 9.80 | 28.15 | 2 | | | 156.53 | | | 5.18 | | 4.43 | | 28.15 | |
| 3SS-1C | 3 | 6.60 | 31.5 | 3 | | | 213.85 | | | 5.71 | | 6.38 | | 31.50 | |
| 5SS-1C | 5 | 4.90 | 30.71 | 4 | | | 220.46 | | | 6.57 | | 8.25 | | 30.71 | |

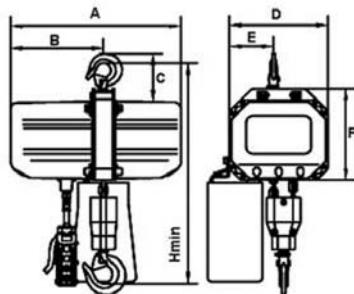
* 25% duty cycle = maximum on time: 15 min/hr.
maximum number of starts: 150/hr.

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

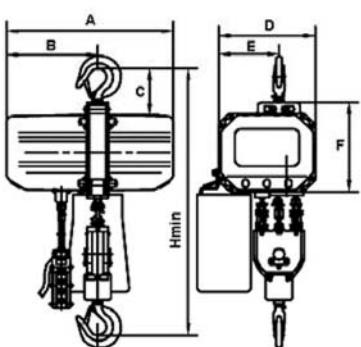
Specifications – Three Phase



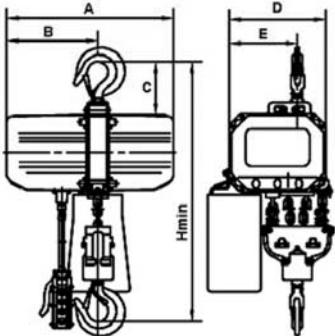
1/2SS-3C 1SS-3C



2SS-3C



3SS-3C



5SS-3C

Available in 10', 15' and 20' lifts.

| Model | Rated Cap'y (ton) | Hoisting Speed (f/min.) | Head-room (in.) | Motor | Duty Cycle Rating | No. of Falls | Load Chain (mm) | Net Wt. (lbs.) | A | B | C | D | E | F | Hmin. |
|----------|-------------------|-------------------------|-----------------|----------------------------|-------------------|--------------|-----------------|----------------|-------|------|-------|-------|-------|-------|-------|
| 1/2SS-3C | 1/2 | 31.50 | 20.16 | 1.34HP 230/460V 60Hz | H4 (30%)* | 1 | 6.3x19 | 102.5 | 17.72 | 9.84 | 4.09 | 10.24 | 4.43 | 9.45 | 20.16 |
| 1SS-3C | 1 | 24.80 | 24.41 | 1 | | 8x24 | 149.91 | 20.43 | 11.16 | 4.67 | 11.81 | 5.28 | 10.96 | 24.41 | |
| 2SS-3C | 2 | 12.40 | 28.15 | 2 | | 8x24 | 156.53 | 20.43 | 11.16 | 5.18 | 11.81 | 4.43 | 10.96 | 28.15 | |
| 3SS-3C | 3 | 8.30 | 31.5 | 3 | | 8x24 | 213.85 | 20.43 | 11.16 | 5.71 | 11.81 | 6.38 | 10.96 | 31.50 | |
| 5SS-3C | 5 | 6.20 | 30.71 | 4 | | 8x24 | 220.46 | 20.43 | 11.16 | 6.57 | 11.81 | 8.25 | 10.96 | 30.71 | |

* 30% duty cycle = maximum on time: 18 min/hr.
maximum number of starts: 180/hr.

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

Unpacking

Open shipping container and check for shipping damage. Report any damage immediately to your distributor and shipping agent. Do not discard any shipping material until the Chain Hoist is installed and running properly.

Missing parts, if any, should be reported to your distributor. Read this owner's manual thoroughly for assembly, maintenance and safety instructions.

Contents of the Shipping Container

- 1 Electric Chain Hoist
- 1 Chain Container with Bracket and fasteners
- 1 Power Cord
- 1 Pendant Cord
- 1 Top Hook Assembly
- 1 Owner's Manual
- 1 Warranty Card

Installation

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. Supporting structures (such as I-Beams, etc.) should be installed by properly licensed professional installers.

Installing Top Hook

1. Remove the two screws, lock washers and flat washers (A, Figure 1), the hook-pin plates (B) and the hook pins (C).
2. Place the top hook assembly (D) into position between the body plates, and re-install pins, hook-pin plates, screws and washers. Firmly tighten the screws.
3. Place the hoist assembly into position on the supporting structure.

If you are using the hoist with a trolley, refer to the trolley manual for instructions on securing the pendant cord and maintaining proper slack in the cord during operation.

Installing Power and Pendant Cords

NOTE: If you need to convert the voltage requirements of the hoist, it will be more convenient to do that now before installing the power cord or pendant cord. See "Voltage Conversion" on page 9.

1. Attach the power cord and pendant cord to the cable holder, as follows.

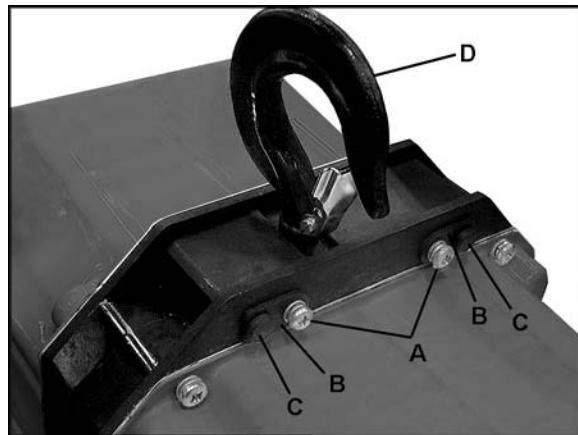


Figure 1



Figure 2

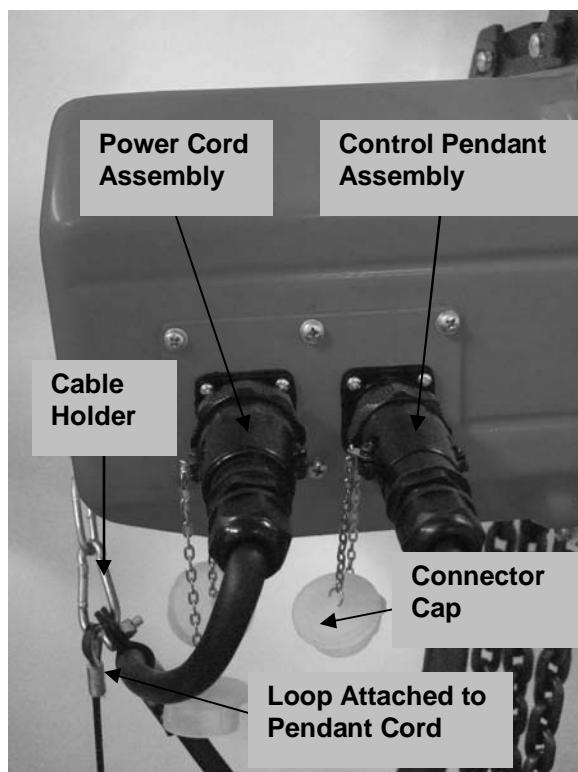


Figure 3

2. Open the connector caps on the two female connectors (Figure 2) and two male plugs (Figure 3).
3. Check orientation of notches on the female connectors and male plugs, and correctly insert the 4p plug into the 4p female connector on the left, insert the 7p plug into the 7p female connector on the right with sufficient force (see Figure 3).
4. Tighten the two cover nuts with fingers (see Figure 4).



Figure 4

Electrical Instructions

WARNING

Electrical connections must be made by a qualified electrician in compliance with all relevant codes. This machine must be properly grounded to help prevent electrical shock and possible fatal injury.

Grounding

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock.

This machine's power cord must be fitted with an appropriate UL/CSA listed plug, or it can be "hard-wired" directly to a control panel. If hard-wired, make sure a disconnect is available for the operator.

If a plug is installed, it must have an equipment-grounding conductor and a grounding prong. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug – if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding connector.

If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

Repair or replace damaged or worn cord immediately.

Voltage Conversion

The **single phase model SS-1C** is designed for 115 volt or 230 volt operation. It is pre-wired for 230 volt. To switch voltage:

1. Disconnect hoist from power supply, and unplug the power cord and pendant cord from the hoist.
2. Remove the motor cover and move the plug from the 230V socket to the 115V socket.
3. Re-install the motor cover.

The **three phase model SS-3C** is designed for 230 volt or 460 volt operation. It is pre-wired for 460V. To change to 230V proceed as follows.

1. Disconnect hoist from power supply, and unplug the power cord and pendant cord from the hoist.
2. Remove the motor cover and make the following exchanges on the SS-3C:
 - Move the plug XP1 from socket XS2 to XS1.
 - Move the plug XP2 from socket XS6 to XS5.
3. On the phase protector, slide the switch S1 from the 460 volt position to the 230 volt position.
4. Re-install motor cover.

Refer to the diagrams at the back of this manual for any clarification of these procedures.

NOTE: When connecting plug to socket, check that the connector notch is fully engaged. To remove a plug, press on the notch tail to disengage notch.

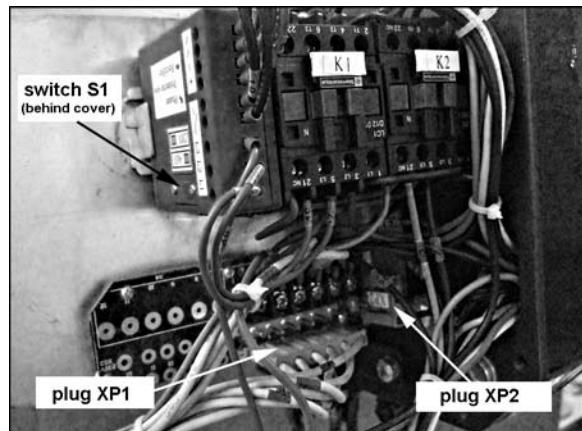


Figure 5
(single speed model shown)

Inspecting Hoist Motion

1. Before closing the circuit breaker and testing the hoist, check that wiring has been complete. If the hoist cannot be observed when the circuit breaker is closed, station an observer within sight of the hoist to report any movement when power is applied to the hoist. Be prepared to disconnect power if hoist motor starts when the power is applied. The hoist must remain motionless when power is applied. Find and correct any problems before continuing.
2. With no load on the load hook, press the UP button very briefly and observe hoist action. The hook should move upward.
3. If no motion occurs when the UP button is pressed and the hoist is connected to a three phase power supply, the power supply wires are incorrectly positioned. Switch any two of the three supply wires at the power source. **Do not attempt to rewire the hoist circuit or pendant controls for this problem.** Use the same safety precautions when reversing two of the supply wires as was used when the wires were originally connected.
4. Re-connect power and test hoist movement again without load. Run hoist to the complete lifting height to ensure limit switches are operating properly.

Extension Cords

If an extension cord is necessary, make sure the cord rating is suitable for the amperage listed on the hoist's motor plate. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating.

The chart in Figure 6 shows the correct size cord to use based on cord length and motor plate amp rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

Recommended Gauges (AWG) of Extension Cords

| Amps | Extension Cord Length * | | | | | |
|----------|-------------------------|---------|---------|----------|----------|----------|
| | 25 feet | 50 feet | 75 feet | 100 feet | 150 feet | 200 feet |
| < 5 | 16 | 16 | 16 | 14 | 12 | 12 |
| 5 to 8 | 16 | 16 | 14 | 12 | 10 | NR |
| 8 to 12 | 14 | 14 | 12 | 10 | NR | NR |
| 12 to 15 | 12 | 12 | 10 | 10 | NR | NR |
| 15 to 20 | 10 | 10 | 10 | NR | NR | NR |
| 21 to 30 | 10 | NR | NR | NR | NR | NR |

*based on limiting the line voltage drop to 5V at 150% of the rated amperes.

NR: Not Recommended.

Figure 6

Installing Chain Container

Your hoist is supplied with a canvas chain container (Figure 7) designed to fit the particular length of chain. If a different length chain is ever installed on this hoist, the chain container must be replaced by one of proper size. See chart on page 19.

WARNING Do not overfill chain container. If chain should overfill and begin to fall, the entire chain container may empty without warning, resulting in serious personal injury or property damage.

To assemble the chain container to the hoist:

1. Hang hoist in position on the I-Beam or trolley. Do not install chain container yet. Allow slack side and load side of chain to hang freely from hoist.
2. Apply power to the hoist and press the DOWN button until the lower limit switch is tripped.
3. Check the chain container to ensure that the seam is inside the bag. The bag must not be inside out.
4. Insert bracket prongs into interior bag slots (Figure 7) as far as they will go.



Figure 7

5. Push the bracket down into the bag, making sure the flaps are raised (Figure 8).
6. Push the flaps over and down until they are secure (Figure 9).



Figure 8



Figure 9

7. Remove the screw and washer holding the end chain to the hoist (Figure 10). Mount the bracket of the chain container in that location as shown in Figure 11.
8. Put the chain stop into the container (Figure 11), and operate the hoist to bring the load hook up until the upper limit switch is tripped.
9. Check the chain to ensure that all the non-loaded chain is completely in the container.

CAUTION Do not put chain into the chain container by hand! By not following the above steps, the chain can become twisted or kinked and can damage the hoist.

Pre-Operation Inspection

Inspecting the Load Chain

Clean the chain with a solvent, and carefully inspect the entire load chain. Replace damaged chain before using the chain hoist. See "Inspection

Procedures: Allowable Limits" on page 18 for the maximum pitch allowed for chain length. If the chain exceeds this amount, it must be replaced.

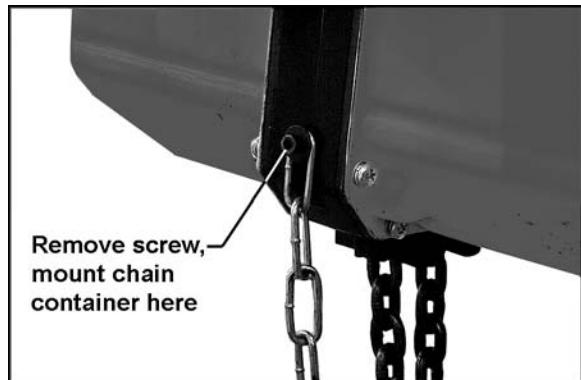


Figure 10

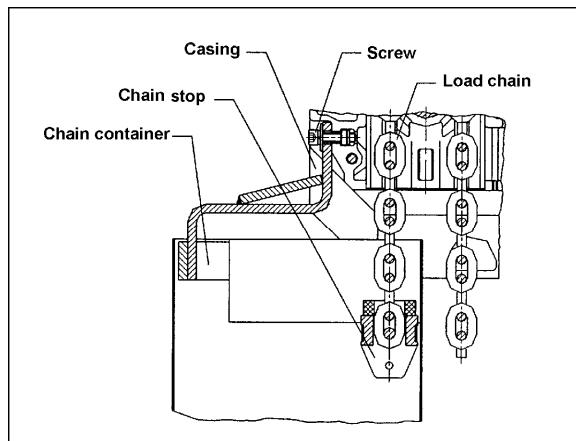


Figure 11

Also replace the load chain if any of the following are identified:

1. Seriously rusted or cracked.
2. Marks on the chain surface are deeper than 5% of the link's diameter.
3. Links are twisted or deformed.
4. The links are stretched too long or seriously worn on the surface, especially at the points where links contact each other.

Never extend load chain by welding a second piece to the original.

WARNING Do not operate the hoist with a twisted, kinked or damaged load chain. Do not splice the load chain.

Check that the chain does not twist along its length from hoist to hook. If twist is present on units with multiple falls, the hook must be passed back through the chain loop to remove all twist in the chain.

WARNING The load chain supplied with your JET 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. Use of other than factory replacement chain may cause serious injury and/or damage to the hoist.

A light coat of 30-weight oil applied periodically to the chain will create easier operation and prolong the life of the chain.

Inspecting the Hooks

It is important to check top and bottom hooks for proper opening and other signs of deformation or damage. Replace a hook immediately if any of the following problems are identified:

1. The safety latch no longer contacts the hook opening.
2. The vertical angle at the neck of the hook reaches 10° (see Figure 12).

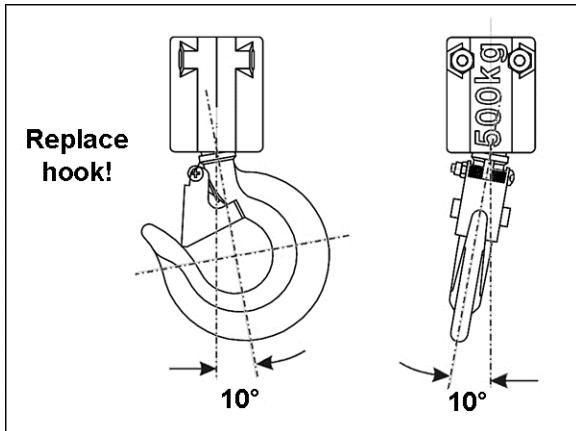


Figure 12

3. Chemical corrosion or cracks on the hook.
4. Excessive wear on the inside surface.
5. The throat opening has enlarged. (See page 18 for the maximum allowable limits for the throat opening.)

NOTE: Excessive hook throat opening or twist indicates abuse or overloading of the hoist. If such deformation is discovered, inspect hoist, chain and all supporting members very carefully for additional indications of excessive hoist loading.

WARNING Do not attempt repair of a hook by heat treating, bending or attaching anything by welding. Such procedures will weaken and may cause failure of the hook.

Operating the Hoist

Allow the hoist to come to a full stop before changing direction. Rapidly reversing or catching a falling load can overload the hoist system and cause a failure in the hoist and/or chain, resulting in injury or property damage.

If the hoist is connected to a manual trolley, move the hoist by pushing on the suspended load. Move an unloaded hoist by pulling on the empty hook. Do **NOT** move the hoist by pulling on the pendant cord.

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 hoist clean, and store in a clean, dry location.

Follow this general procedure for hoisting loads:

1. Secure the upper hook to the supporting structure.
2. Place load sling 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 Figure 13.

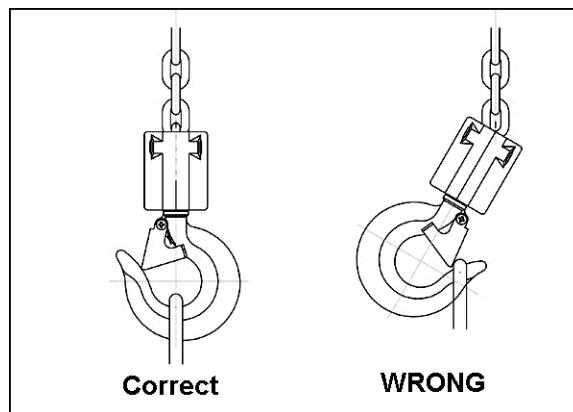


Figure 13

3. 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.**
4. Press UP button and remove all slack in load chain. Increase tension in the load chain until the hoist is about to raise the load.
5. Check again that the load is properly slung, directly under hoist, and will not suddenly swing or twist.
6. Raise load an inch or two above the ground and stop. Observe load for a few moments, looking for signs that the load or hoist system is unstable, or other indications that there is a problem.
7. Check that the chain is not twisted at the bottom hook. All welds should face the same direction (see Figure 15). For hoists with two or more falls of chain, make sure the bottom hook is not turned over. This may cause the chain to twist.
8. Raise load to the traveling height. Raise only to the height necessary to safely clear all obstacles.

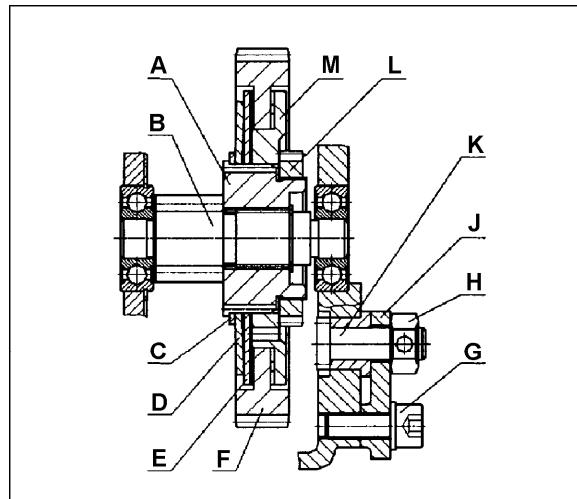
9. Lower load at destination. If both UP and DOWN commands must be used during lowering, pause for a moment between each reversal of load direction.
10. Slowly allow weight to shift from hoist to ground or new support. Do not approach load until all tension is out of chain and load is stable.

Adjustments

Safety Clutch Adjustment

The load limitation of the safety clutch has been set to within 1.3 to 1.8 times the rated load of the hoist. Generally, the safety clutch will not require adjustment. But if the hoist ever fails to lift the rated load while the rotor is turning, the safety clutch must be re-adjusted. Proceed as follows (see Figure 14):

1. Suspend the rated load in the bottom hook.
2. Push the UP button to create tension on the load chain, but do not raise the load off the ground.
3. Disconnect the power source, and remove the gear side cover.
4. Loosen the screw (G), open the plate (J), and push down the adjusting shaft (K) until it fully engages the adjusting circle nut (L). Rotate the nut (H) clockwise to tighten the adjusting circle nut (L).
5. Pull the adjusting shaft (K) out of engagement with the adjusting circle nut (L). Then close the plate (J) and tighten screw (G).
6. Connect hoist to power source, and push the UP button on the pendant control. The hoist should now lift the rated load. If it will not lift the load, disconnect power and repeat steps 4 and 5 to tighten the adjusting circle nut until it can lift the rated load.
7. Now change the load to within 1.3 to 1.8 times the rated load, then push the UP button. The hoist should NOT be able to lift the load. If it can lift the load, repeat steps 4 and 5, rotate the adjusting nut (H) and loosen adjusting circle nut (L) until the hoist cannot lift the load.
8. Unload the hoist and repeat step 6 with the original rated load. The hoist should now be able to lift the original rated load. If it does not, repeat steps 6 and 7 until the hoist operates with the rated load only, but not with the 1.3 to 1.8 times rated load.
9. Unload the hoist, and re-install the gear side cover.



| | |
|------------------------|--------------------------|
| A - Spline hub | G - Screw |
| B - First stage pinion | H - Adjusting nut |
| C - Adjusting washer | J - Adjusting plate |
| D - Dish spring | K - Adjusting shaft |
| E - Clutch friction | L - Adjusting circle nut |
| F - First stage gear | M - Clutch carrier |

Figure 14

Replacing Load Chain

Over time, the load chain will wear or elongate. This can cause damage to the hoist, breakage, or non-engagement of the load sheave. The following procedures describe replacing the load chain for single and multiple fall hoists. **These procedures should be performed by experienced personnel only.**

How to Cut Chains

Use a bolt cutter with special cutter jaws for cutting hardened chain. Cut only one side of the link at a time. When making the second cut, place a mat over the chain to catch the flying chain section.

Making a C-Link

Replacing load chain will require the use of a C-link (in some cases, two C-links), which you can easily make as follows:

1. Cut a link from the old chain.
2. Cut the weld from the link leaving an opening approximately 1.25 times the diameter of the link material. See Figure 15.
3. Grind the cut areas smooth and remove all burrs.

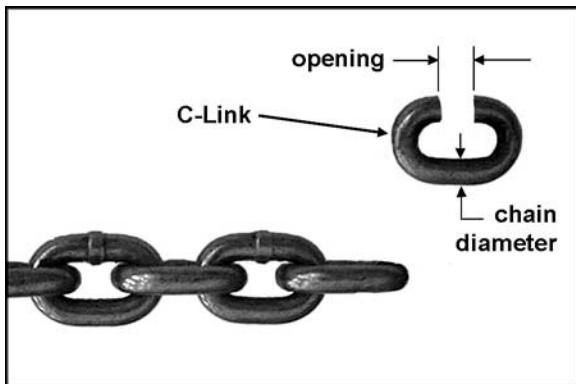


Figure 15

Single Fall Chain Hoist

1. Lower the load hook until only 1 to 2 feet of slack chain remains in the chain container.
2. Remove chain container.
3. On the slack side of the chain, remove the chain stop and the spring (Figure 16). Keep these handy for later re-installing.
4. Using a C-link, connect the new chain to the old chain. Be sure vertical link welds face away from load sprocket (see Figure 17).
5. Keep tension on both sides of the chain and lower the load hook to pull the new chain through the hoist. Do not let the chain twist or bind as it is being pulled through the hoist.

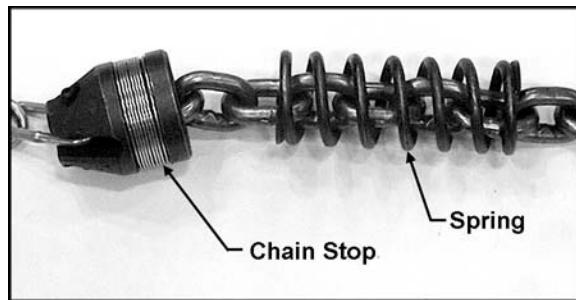


Figure 16

6. Stop hoist when 1 to 2 feet of new chain remains on the slack side.
7. Install the spring and chain stop on the slack end of the chain.
8. Remove the load hook and the spring from the old chain, and install them on the new chain. Inspect condition of both spring and hook.
9. Lower load hook until the limit switch stops hoist movement. Inspect the chain for any signs of twist.
10. Install chain container following the instructions in this manual. Do not fill chain container by hand.
11. It is recommended that after installing new chain, the first few lifts be limited to no more than 25-50% of the rated load. Thoroughly inspect chain for twist before placing hoist in routine service.

Vertical and Horizontal Links

Vertical and horizontal are determined by the relationship with the load sprocket. Vertical links will be guided by the center slit in the load sprocket. Horizontal links will engage in the oval pockets on the sprocket. See Figure 17.

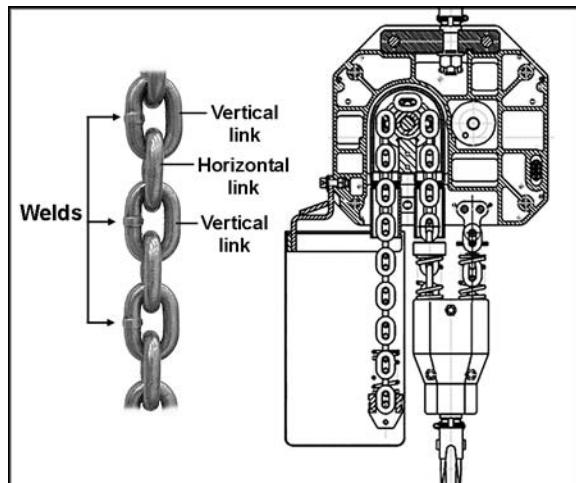


Figure 17

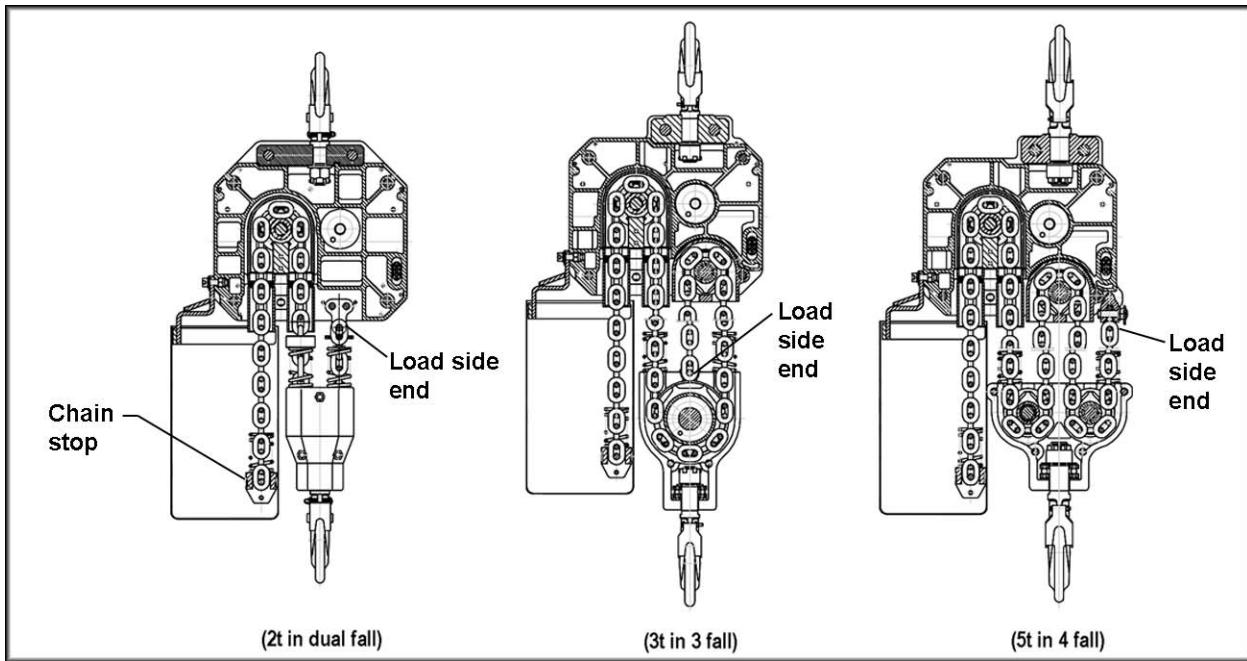


Figure 18

Dual/Multiple Fall Chain Hoists

CAUTION

The link on the load side end must be a vertical link. If it is a horizontal link, the chain will have a twist in it.

1. Lower hook until only 1 to 2 feet of slack chain remains in the chain container.
2. Remove chain container.
3. On the slack side of the chain, remove the chain stop, and remove the black spring(s). (see Figure 16). Keep these handy for later re-installing.
4. Using a C-link(s), connect the new chain to the old chain. If the end link of the old chain is horizontal, use two C-links. If the end link of the old chain is vertical, use one C-link. See Figure 19. Using the correct number of C-links will properly orient the chain, and ensure that the first link on the load side end is a vertical link.
5. Install the spring(s) and chain stop on the opposite end of the new chain.
6. Support the load hook so that the load chain can pass through the chain sheaves smoothly. Figure 16 shows the load chain path for the various sizes of hoist.
7. Press the DOWN button to move the chain through the hoist. Keep tension on the chain as you pull it through to the load side, until the C-link(s) clears the hoist at the load side.

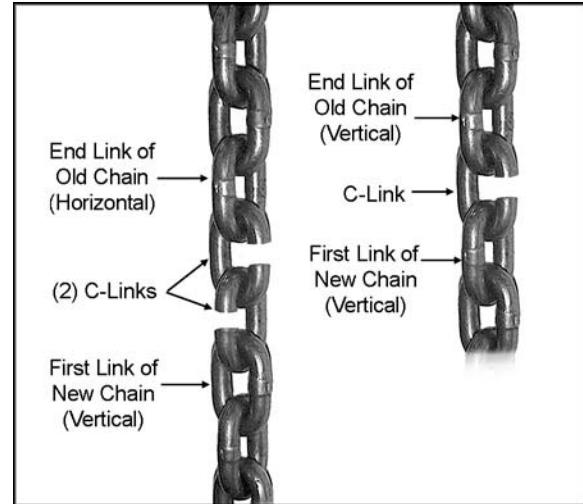


Figure 19

8. Place the first link of the new chain into the load side end holder. Be sure that there is no twisting of chain between last chain sprocket and load side end holder.
9. Remove the chain stop bolt from the old chain and install on the new chain. **Do not substitute any other bolt in this application.** Use a new cotter pin to secure bolt.
10. Install chain container following instructions in this manual. Do not fill chain container by hand.
11. Lower hook until limit switch stops hoist movement, then raise hook until limit switch stops hoist movement. Inspect chain for any signs of twist and correct before continuing.

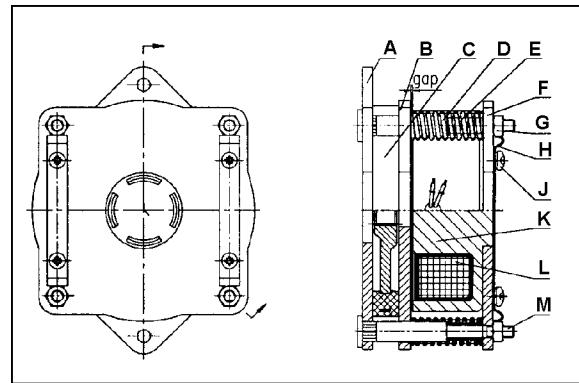
12. It is recommended that the first few lifts be limited to no more than 25-50% of the rated load. Inspect chain for twist before placing hoist into routine service.

Brake Adjustment

The normal gap between the armature and the iron core is from 0.5mm to 1.0mm. If the gap is out of the range of 0.5mm to 1.0mm, it must be adjusted as follows (see Figure 20):

1. Disconnect hoist from power source.
2. Remove the gear side cover.
3. Remove the locking plate (H) by unscrewing the four screws (J).
4. Insert a 0.5mm spacer between the iron core (K) and the armature (B).
5. Tighten the four nuts (G) by an equal amount one by one. The gap is now adjusted to 0.5mm.
6. Release the four nuts (G) by 1/6 of a turn and remove the spacer. Re-tighten each of the nuts by 1/6 of a turn.
7. Re-position the locking plate (H) and install the four screws (J).
8. Re-install gear side cover.

NOTE: When adjusting the brake, if the brake pad is found deformed, the glue has failed, or the lining is severely worn, the brake pad should be replaced. See page 19.



| | |
|------------------------------|-------------------|
| A - Base plate | G - Nut |
| B - Armature | H - Locking plate |
| C - Brake pad | J - Screw |
| D - Brake spring | K - Iron core |
| E - Location spring | L - Brake coil |
| F - Iron core locating board | M - Brake screw |

Figure 20

Inspection and Maintenance

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. All safety-related deficiencies discovered in the inspection are to be corrected before hoist is placed back in service. Check for internal damage whenever external damage has occurred.

Read and follow the 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 JET inspection and maintenance instructions.

The following items are to be inspected by appointed personnel at the time interval noted below. Dated inspection and repair reports must be maintained. Copies of all reports must be available to service personnel.

Inspection Schedule A

Service Interval:

Normal Service – Monthly

Heavy Service – Weekly to Monthly

Severe Service – Daily to Weekly

1. Check brake for slippage.
2. Check that pushbutton controls operate properly.
3. Check that limit switches function properly. Without load, operate up button control while observing stopper spring. If stopper spring becomes compressed and motor does not stop, STOP operation immediately. Limit switch is not operating properly. Repeat test with down button control.
4. Check top hook and load hook for deformation, chemical damage, and cracks.
5. Check that load chain is clean and lightly lubricated, free of excessive wear or deformation at the contact points between links and link and hook. This hoist uses special alloy hoisting chain and does not interchange with any other manufacturer. All replacement chain must be purchased from your JET distributor or from JET directly by calling 800-274-6848.
6. Check that the chain passes through all sprockets smoothly while under load.
7. Check entire hoist system for signs of damage and loss of integrity.

Inspection Schedule B

Service Interval:

Normal Service – Yearly

Heavy Service – Semi-Annually

Severe Service – Quarterly

1. Perform all of the Schedule A items.
2. Check entire unit for loose screws, bolts, nuts and pins.
3. Check for evidence of excessive wear, corrosion, cracks, or distortion in the following parts: hook parts, chain attachments, suspension bolts and shafts, gears, bearings, pins, rollers, and locking and clamping devices.
4. Check for evidence of damage to hook parts including hook retaining nuts and collars and pins and hook holding frame and parts used to secure the frame.
5. Check for evidence of damage or excessive wear of load gear, sheave and sprocket wheel. If the pockets are too deep, the chain may jam with corresponding failure of engagement between chain and sprocket or sheave.
6. Check for evidence of excessive load brake wear. Inspect clearance between brake components, and adjust if needed.
7. Check for evidence of pitting or other deterioration of visible controller contacts.
8. Check for evidence of deterioration of supporting structures and trolleys.
9. Check for visible deformation of limit switch coil springs.
10. Check that all warning labels are present and readable.

Inspection Procedures: Allowable Limits

Load Chain

Carefully inspect the entire load chain. Measure five consecutive links with calipers in the manner shown in Figure 21. Check every three feet and especially where excessive wear is indicated. Any load chain that shows noticeable deformation or heat influence must be replaced with a new one. Never extend load chain by welding a second piece to the original.

| Capacity | Load Chain | 5 Links Normal | 5 Links Limit |
|----------|------------|----------------|---------------|
| 1/2 ton | 6.3x19mm | 3.74" | 3.8" |
| 1 ton | 8x24mm | 4.72" | 4.79" |
| 2 ton | 8x24mm | 4.72" | 4.79" |
| 3 ton | 8x24mm | 4.72" | 4.79" |
| 5 ton | 8x24mm | 4.72" | 4.79" |

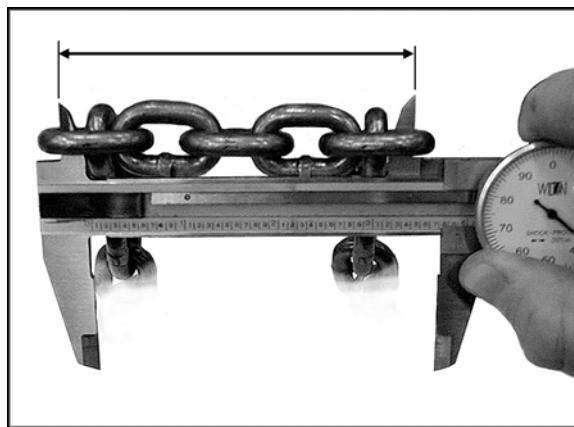


Figure 21

Hooks (Top and Bottom)

Replace the hook when the "A" or "B" measurement, as shown in Figure 22, reaches the limit shown in the tables below. Never heat treat the hook or attach anything to the hook by welding.

NOTE: Excessive hook throat opening or twist indicates abuse or overloading of the hoist. If such deformation is discovered, inspect the hoist, chain and all supporting members very carefully for additional indications of excessive hoist loading.

Throat – "A"

| Capacity | A – Normal | A – Limit |
|----------|------------|-----------|
| 1/2 ton | 1.26" | 1.386" |
| 1 ton | 1.42" | 1.562" |
| 2 ton | 1.73" | 1.903" |
| 3 ton | 1.73" | 1.903" |
| 5 ton | 1.97" | 2.167" |

Seat – "B"

| Capacity | B – Normal | B – Limit |
|----------|------------|--------------|
| 1/2 ton | 1" | under 0.9" |
| 1 ton | 1.15" | under 1.035" |
| 2 ton | 1.56" | under 1.404" |
| 3 ton | 1.56" | under 1.404" |
| 5 ton | 1.78" | under 1.602" |

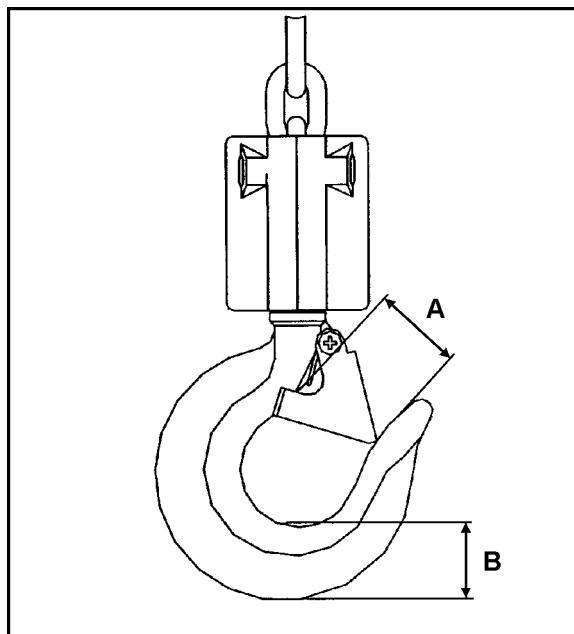


Figure 22

Brake Friction Pad

See Figure 23.

Before suspecting or replacing the brake friction pad, make sure the brake and the safety clutch have both been adjusted properly according to the instructions on pages 13 and 16.

If the friction pad is suspect, measure its thickness using a calipers. If it is under the thickness limit, replace it according to the chart below.

| Capacity | Thickness Normal | Thickness Limit (replace) |
|----------|------------------|------------------------------|
| 1/2 ton | 0.51" | under 0.48" |
| 1 ton | | |
| 2 ton | | |
| 3 ton | 0.59" | under 0.55" |
| 5 ton | | |

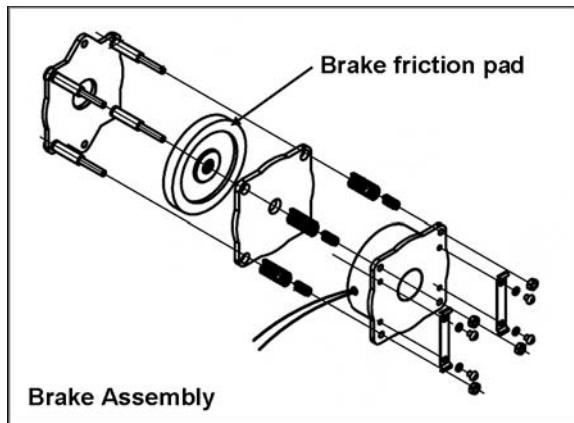


Figure 23

WARNING Do not attempt to rebuild a worn friction pad and do not modify brake system in order to use a worn-out pad.

Chain Container Chart for Standard or Custom Lifts

| Description | Hoist Model | Lift (m/ft) | | | | | | | | | | | | | | | | | |
|--------------------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | 3m (10ft) | 4m (13ft) | 5m (16ft) | 6m (20ft) | 7m (23ft) | 8m (26ft) | 9m (30ft) | 10m (33ft) | 11m (36ft) | 12m (40ft) | 13m (43ft) | 14m (46ft) | 15m (49ft) | 16m (53ft) | 17m (56ft) | 18m (59ft) | 19m (63ft) | 20m (66ft) |
| 1/2t in single and three phase | 1/2SS-1C 1/2SS-3C | A | A | A | A | A | A | A | A | A | C | C | C | C | C | C | C | C | C |
| 1t in single and three phase | 1SS-1C 1SS-3C | B | B | B | B | B | B | B | B | B | D | D | D | D | D | D | D | D | D |
| 2t in single and three phase | 2SS-1C 2SS-3C | B | B | B | B | D | D | D | D | D | E | E | E | - | - | - | - | - | - |
| 3t in single and three phase | 3SS-1C 3SS-3C | B | B | D | D | D | E | E | - | - | - | - | - | - | - | - | - | - | - |
| 5t in single and three phase | 5SS-1C 5SS-3C | B | D | D | D | E | E | - | - | - | - | - | - | - | - | - | - | - | - |

A = Chain Container part no. 1/2SS-3C-068

B = Chain Container part no. 1SS-3C-068

C = Chain Container part no. 1/2SS-3CC068

D = Chain Container part no. 3SS-3C-068

E = Chain Container part no. 5SS-3C-068

Troubleshooting

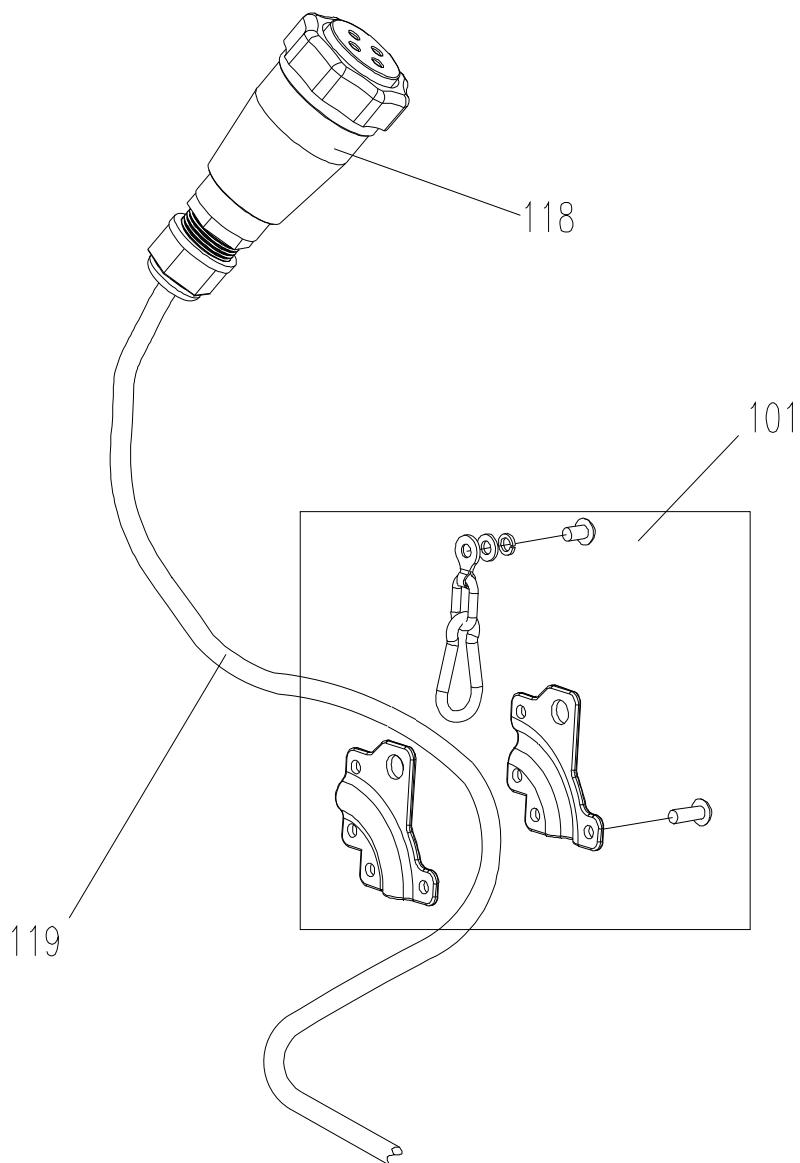
| Trouble | Probable Cause | Remedy |
|---|--|---|
| Motor will not run. | No incoming power, or low voltage. | Check hoist connections to power source. If low voltage, have certified electrician check incoming power. |
| | Fuse blown or circuit breaker tripped. | Replace fuse/re-set circuit breaker. |
| | Rectifier damaged in the phase protector so that the brake won't work. | Replace phase protector. |
| | Transformer damaged. | Replace transformer. |
| | Motor damaged. | Have motor replaced by a qualified service technician. |
| Hoist lifts but will not lower. | Broken conductor in pendant cord. | Test continuity of each conductor. Replace cable if needed. |
| | Up/down switch malfunctioning. | Repair or replace switch. |
| Hoist lowers but will not lift. | Overloaded. | Reduce load to within hoist capacity. |
| | Up/down switch malfunctioning. | Repair or replace switch. |
| | Clutch malfunction. | Have clutch replaced by qualified personnel. |
| Load continues drifting down excessively when hoist is stopped. | Grease or oil on the lining. | Open the hoist, disassemble the brake and clean the lining. |
| | Disc brake is worn. | Adjust clearance between armature and iron core. See page 16. |
| | Brake springs are damaged. | Replace brake springs. |
| Hoist moves in wrong direction. | Two of the three power supply wires are switched. | Switch any two of the three supply wires (see page 10). |
| Motor overheats. | Excessive load or too frequent use. | Operate within rated load and according to duty cycle rating. |
| | Brake drags. | Adjust brake clearance (see page 16). |
| Poor engagement of chain with sprocket/sheave. | Load chain seriously worn. | Replace load chain. See pages 14 and 15. |
| | Sprocket wheel, sheave or the chain guide is seriously worn. | Replace parts as needed. |
| Will not lift rated load. | Overload limit clutch friction torque too low. | Readjust the overload clutch to proper limits (qualified personnel only). |
| | Overload limit clutch damaged. | Replace overload limit clutch. |
| Limit switch failure. | Bad connection of limit switch leads. | Inspect the contacts of the leads and limit switches. |
| | Limit switch damaged. | Replace limit switch. |

Replacement Parts

Replacement parts are listed on the following pages. To order parts or reach our service department, call 1-800-274-6848 Monday through Friday (see our website for business hours, www.jettools.com). Having the Model Number and Serial Number of your machine available when you call will allow us to serve you quickly and accurately.

Power Cord Assembly

| Index No. | Part No. | Description | Size | Qty |
|-----------|--------------------------|------------------------------|------|-----|
| 101 | 1/2SS-3C-106 | Cord Holder Assembly..... | | 1 |
| 118 | 1/2SS-3C-123UG | Male Plug | 4P | 1 |
| 119 | 1/2SS-1C-124 | Power Cord for 1 Phase | | 1 |
| | 1/2SS-3C-124 | Power Cord for 3 Phase | | 1 |

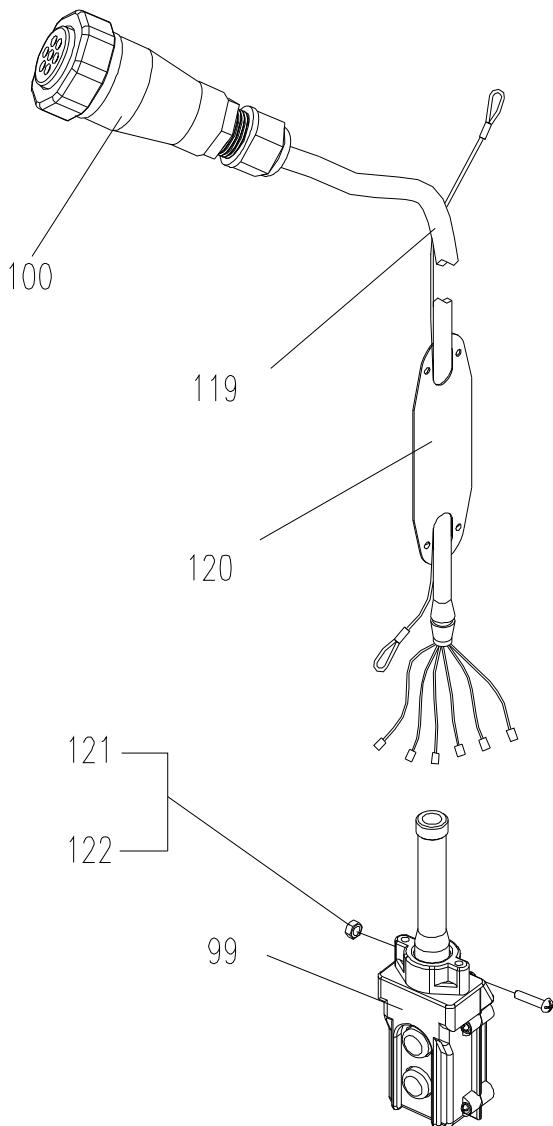


Control Pendant Assembly

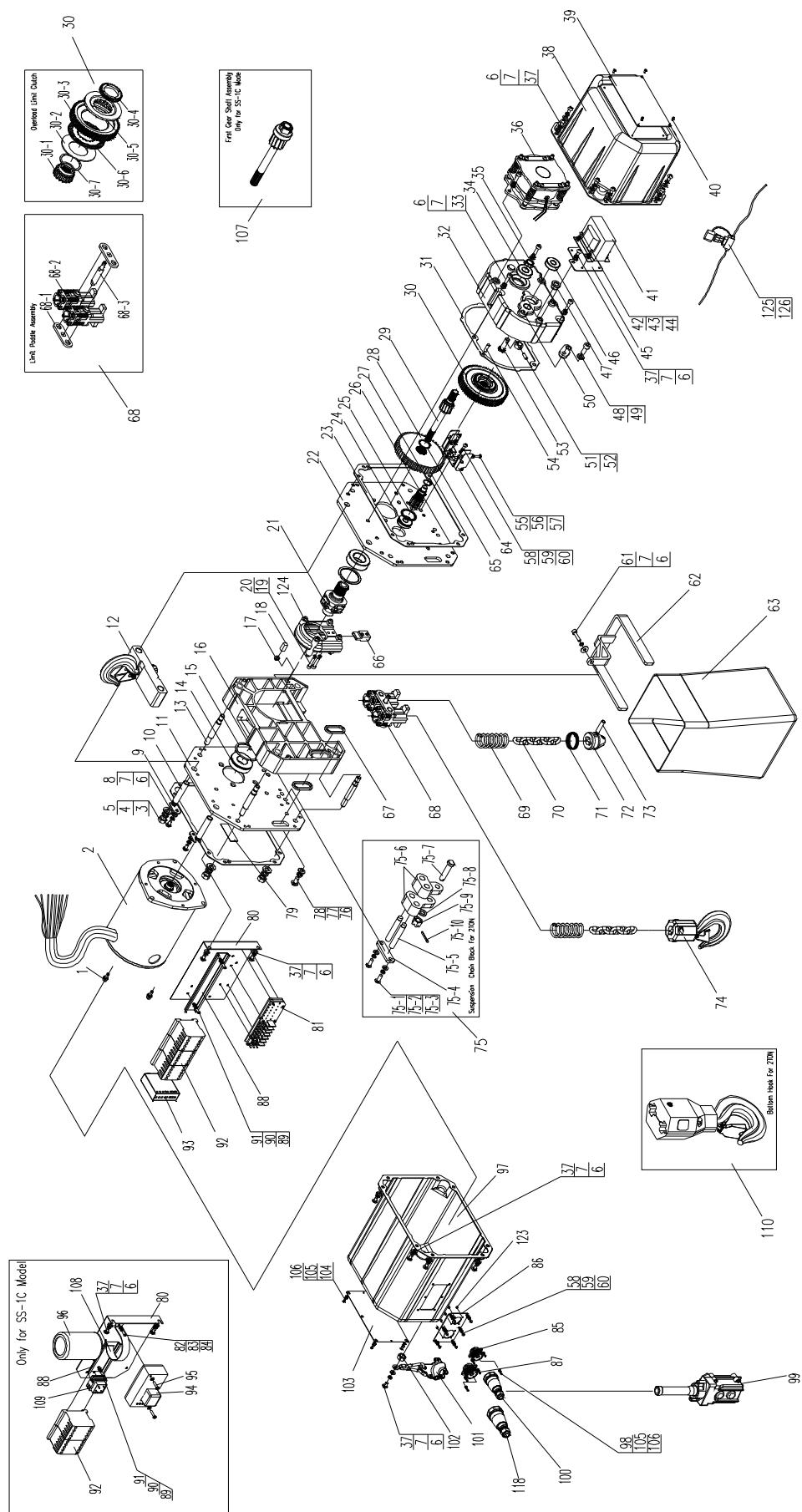
| Index No. | Part No. | Description | Size | Qty |
|-----------|----------------|--|-------|-----|
| 99 | 1/2SS-3C-104 | Pushbutton Control (1 and 3 Phase, Single Speed) | | 1 |
| 100 | 1/2SS-3C-105UG | Male Plug | 7P | 1 |
| 119 | 1/2SS-3C-124A | Pushbutton Cord | | 1 |
| 120 | 1/2SS-3C-125 | Caution Tag | | 1 |
| 121 | 1/2SS-3C-126 | Phillips Pan Head Machine Screw | M4x25 | 1 |
| 122 | TS-1541001 | Nylon Lock Hex Nut | M4 | 1 |

Complete pendant assemblies (each contains #99 thru 122 above):

| | | |
|-------|--------|--|
| ..... | 152211 | PBC-210CN, 2-Button Pendant Controller, 10' Lift |
| ..... | 152216 | PBC-215CN, 2-Button Pendant Controller, 15' Lift |
| ..... | 152221 | PBC-220CN, 2-Button Pendant Controller, 20' Lift |
| ..... | 152231 | PBC-230CN, 2-Button Pendant Controller, 30' Lift |



1/2-Ton, 1-Ton and 2-Ton Chain Hoists



Parts List: 1/2-Ton Chain Hoist

| Index No. | Part No. | Description | Size | Qty |
|-----------|----------------------|---|-----------------|-----|
| 1..... | 1/2SS-3C-001G | Motor Stay Bolt (includes Lock Washer, Plain Washer) M8x16..... | 3 | |
| 2..... | 1/2SS-1C-002A..... | Motor Assembly for 1 Phase | 1 | |
| ..... | 1/2SS-3C-002A..... | Motor Assembly for 3 Phase | 1 | |
| 3..... | 1/2SS-3C-008 | Hex Nut | M10 | 8 |
| 4..... | 1/2SS-3C-009 | Lock Washer | 10mm | 8 |
| 5..... | 1/2SS-3C-010 | Plain Washer | 10mm | 8 |
| 6..... | 1/2SS-3C-011 | Plain Washer | 6mm | 30 |
| 7..... | 1/2SS-3C-012 | Lock Washer | 6mm | 30 |
| 8..... | 1/2SS-3C-013 | Phillips Pan Head Machine Screw | M6x12 | 2 |
| 9..... | 1/2SS-3C-014 | Stay Bolt Block for Top Hook Assembly ..... | ..... | 2 |
| 10..... | 1/2SS-3C-015 | Stay Bolt for Top Hook Assembly..... | ..... | 2 |
| 11..... | 1/2SS-3C-016 | Motor Side Plate..... | ..... | 1 |
| 12..... | 1/2SS-3C-017 | Top Hook Assembly ..... | ..... | 1 |
| 13..... | 1/2SS-3C-018 | Stay Bolt for Motor Side Plate ..... | ..... | 4 |
| 14..... | 1/2SS-3C-019 | Ball Bearing with Retainer..... | 150205 | 2 |
| 15..... | 1/2SS-3C-020 | Stop Ring | 52/57.9 | 2 |
| 16..... | 1/2SS-3C-021 | Sheave Cover..... | ..... | 1 |
| 17..... | 1/2SS-3C-022 | Locknut | M6 | 1 |
| 18..... | 1/2SS-3C-023 | Rubber Plug ..... | ..... | 2 |
| 19..... | 1/2SS-3C-024 | Socket Head Cap Screw..... | M5x25 | 2 |
| 20..... | 1/2SS-3C-025 | Lock Washer | 5mm | 2 |
| 21..... | 1/2SS-3C-026 | Lift Wheel ..... | ..... | 1 |
| 22..... | 1/2SS-3C-027 | Gear Side Plate ..... | ..... | 1 |
| 23..... | 1/2SS-3C-028 | Gear Side Plate Gasket ..... | ..... | 2 |
| 24..... | 1/2SS-3C-029 | Ball Bearing with Retainer..... | 150201 | 1 |
| 25..... | 1/2SS-3C-030 | Stop Ring | 32/36.6 | 1 |
| 26..... | 1/2SS-3C-031 | Second Gear Shaft ..... | ..... | 1 |
| 27..... | 1/2SS-3C-032 | Snap Ring | 16mm | 1 |
| 28..... | 1/2SS-3C-033 | Lift Gear ..... | ..... | 1 |
| 29..... | 1/2SS-3C-034 | First Gear Shaft for 3 Phase ..... | ..... | 1 |
| 30..... | 1/2SS-3C-035 | Overload Limit Clutch ..... | ..... | 1 |
| 30-1..... | 1/2SS-3C-03501 | Spline Sleeve ..... | ..... | 1 |
| 30-2..... | 1/2SS-3C-03502 | Wing Spring..... | ..... | 1 |
| 30-3..... | 1/2SS-1C-03503 | Middle Gear for 1 Phase ..... | ..... | 1 |
| ..... | 1/2SS-3C-03503 | Middle Gear for 3 Phase ..... | ..... | 1 |
| 30-4..... | 1/2SS-3C-03504 | Adjust Round Nut ..... | ..... | 1 |
| 30-5..... | 1/2SS-3C-03505 | Clutch Support..... | ..... | 1 |
| 30-6..... | 1/2SS-3C-03506 | Friction Disc ..... | ..... | 1 |
| 30-7..... | 1/2SS-3C-03507 | Adjust Washer ..... | ..... | 1 |
| 31..... | 1/2SS-3C-036 | Gear Case Seal ..... | ..... | 1 |
| 32..... | 1/2SS-3C-037 | Gear Case ..... | ..... | 1 |
| 33..... | 1/2SS-3C-038 | Socket Head Cap Screw..... | M6x20 | 5 |
| 34..... | 1/2SS-3C-039 | Ball Bearing | 180202kz1 | 1 |
| 35..... | 1/2SS-3C-040 | Snap Ring (for 3 Phase only) | 15mm | 1 |
| 36..... | 1/2SS-1C-041 | DC Brake Assembly for 1 Phase ..... | ..... | 1 |
| ..... | 1/2SS-3C-041 | DC Brake Assembly for 3 Phase ..... | ..... | 1 |
| 37..... | 1/2SS-3C-042 | Phillips Pan Head Machine Screw | M6x10 | 20 |
| 38..... | 1/2SS-3C-043G | Gear Side Cover (includes Balance Block) ..... | ..... | 1 |
| 39..... | LM000106..... | Capacity Label for 1/2T..... | ..... | 1 |
| 40..... | 1/2SS-3C-045 | Socket Head Cap Screw..... | M3x6 | 4 |
| 41..... | 1/2SS-1C-046UG | Transformer for 1 Phase ..... | ..... | 1 |
| ..... | 1/2SS-3C-046UG | Transformer for 3 Phase ..... | ..... | 1 |
| 42..... | 1/2SS-3C-047 | Phillips Pan Head Machine Screw | M4x6 | 4 |
| 43..... | TS-2361041 | Lock Washer | 4mm | 4 |
| 44..... | TS-1550021 | Plain Washer | 4mm | 4 |
| 45..... | 1/2SS-3C-050 | Transformer Bracket ..... | ..... | 1 |
| 46..... | 1/2SS-3C-051 | Ball Bearing | 180201kz1 | 1 |

| Index No. | Part No. | Description | Size | Qty |
|------------------|-----------------|--|------------------|------------|
| 47 | 1/2SS-3C-052 | Steel Collar..... | | 1 |
| 48 | TS-1550061 | Plain Washer..... | 8mm | 1 |
| 49 | 1/2SS-3C-054 | Socket Head Cap Screw..... | M8x20 | 1 |
| 50 | 1/2SS-3C-055 | Lock Plate for Clutch..... | | 1 |
| 51 | 1/2SS-3C-056 | Round Pin | A5x16 | 1 |
| 52 | 1/2SS-3C-057 | Adjust Round Nut | | 1 |
| 53 | 1/2SS-3C-058 | Adjust Shaft..... | | 1 |
| 54 | 1/2SS-3C-059 | Round Pin | A6x12 | 2 |
| 55 | 1/2SS-3C-060 | Phillips Pan Head Machine Screw | M4x16 | 1 |
| 56 | TS-1550021 | Plain Washer..... | 4mm | 1 |
| 57 | 1/2SS-3C-062 | Hex Nut | M4 | 1 |
| 58 | 1/2SS-3C-063 | Phillips Pan Head Machine Screw | M5x10 | 8 |
| 59 | TS-2361051 | Lock Washer | 5mm | 8 |
| 60 | TS-1550031 | Plain Washer..... | 5mm | 8 |
| 61 | 1/2SS-3C-066 | Socket Head Cap Screw..... | M6x25 | 1 |
| 62 | 1/2SS-3C-067 | Chain Container Bracket..... | | 1 |
| 63 | | Chain Container (see chart page 19) | | 1 |
| 64 | 1/2SS-3C-069UG | Limit Switch Set..... | | 1 |
| 65 | 1/2SS-3C-070 | Snap Ring | 25mm | 1 |
| 66 | 1/2SS-3C-071 | Block | | 1 |
| 67 | 1/2SS-3C-072 | Cable Input Seal..... | | 2 |
| 68 | 1/2SS-3C-073 | Limit Paddle Assembly | | 1 |
| 68-1 | 1/2SS-3C-07301 | Side Plate..... | | 2 |
| 68-2 | 1/2SS-3C-07302 | Chain Guide Block..... | | 1 |
| 68-3 | 1/2SS-3C-07303 | Chain Guide Shaft | | 1 |
| 69 | 1/2SS-3C-074 | Limit Spring | | 2 |
| 70 | 1/2SS-3C-075 | Load Chain for 1/2T * | Ø 6.3x19mm | 1 |
| 71 | 1/2SS-3C-076 | Retainer Ring | | 1 |
| 72 | 1/2SS-3C-077 | Chain Stop | | 1 |
| 73 | 1/2SS-3C-078 | Pin..... | | 1 |
| 74 | 1/2SS-3C-079 | Bottom Hook Assembly for 1/2T..... | | 1 |
| 76 | 1/2SS-3C-081 | Phillips Pan Head Machine Screw | M8x16 | 1 |
| 77 | 1/2SS-3C-082 | Lock Washer | 8mm | 1 |
| 78 | TS-1550061 | Plain Washer..... | 8mm | 1 |
| 79 | 1/2SS-3C-084 | Motor Cover Packing | | 2 |
| 80 | 1/2SS-1C-085 | Electric Component Board for 1 Phase | | 1 |
| | 1/2SS-3C-085 | Electric Component Board for 3 Phase | | 1 |
| 81 | 1/2SS-3C-086 | Volts Conversion (for 3 Phase Single Speed)..... | | 1 |
| 82 | 1/2SS-3C-047 | Phillips Pan Head Machine Screw (1 Phase only) M4x6..... | | 1 |
| 83 | TS-2361041 | Lock Washer (1 Phase only) | 4mm | 1 |
| 84 | TS-1550021 | Plain Washer (1 Phase only)..... | 4mm | 1 |
| 85 | 1/2SS-3C-090UG | Female Connector for Push Button Cord.... 7P | | 1 |
| 86 | 1/2SS-3C-091UG | Quick Connector Board | | 1 |
| 87 | 1/2SS-3C-092UG | Female Connector for Power Cord | 4P | 1 |
| 88 | 1/2SS-1C-093 | Contactor Holder for 1 Phase..... | | 1 |
| | 1/2SS-3C-093 | Contactor Holder for 3 Phase..... | | 1 |
| 89 | TS-2284082 | Phillips Pan Head Machine Screw | M4x8 | 2 |
| 90 | TS-2361041 | Lock Washer | 4mm | 2 |
| 91 | TS-1550021 | Plain Washer..... | 4mm | 2 |
| 92 | 1/2SS-1C-097UG | Magnetic Contactor for 1 Phase..... | | 2 |
| | 1/2SS-3C-097UG | Magnetic Contactor for 3 Phase, Single Speed | | 2 |
| 93 | 1/2SS-3C-098 | Reverse Phase Inspector (3 Phase only) 230V/460V/3Ph/60Hz | 1 | 1 |
| 94 | 1/2SS-1C-099-A | Solid State Switch (1 Phase only) | | 1 |
| 95 | TS-2284352 | Phillips Pan Head Machine Screw | M4x35 | 2 |
| 96 | 1/2SS-1C-101 | Capacitor (1 Phase only) | Ø65, 600uF | 1 |
| 97 | 1/2SS-3C-102UG | Motor Side Cover..... | | 1 |
| 98 | 1/2SS-3C-103UG | Phillips Pan Head Machine Screw | M3x12 | 8 |

* Specify length of Load Chain when ordering.

| Index No. | Part No. | Description | Size | Qty |
|------------------|----------------------|--|-------------|------------|
| 99..... | 1/2SS-3C-104 | Pushbutton Control for 1 Phase and 3 Phase, Single Speed | | 1 |
| 100..... | 1/2SS-3C-105UG | Male Plug | 7P | 1 |
| 101..... | 1/2SS-3C-106 | Cable Holder | | 1 |
| 102..... | 1/2SS-3C-022 | Lock Nut | M6 | 1 |
| 103..... | LM000107 | Name Plate for 1/2-Ton 3PH | | 1 |
| | LM000108..... | Name Plate for 1/2-Ton 1PH | | 1 |
| 104..... | 1/2SS-3C-109 | Phillips Pan Head Machine Screw | M3x6 | 4 |
| 105..... | 1/2SS-3C-110 | Lock Washer | 3mm | 12 |
| 106..... | 1/2SS-3C-111 | Plain Washer | 3mm | 12 |
| 107..... | 1/2SS-1C-112 | First Gear Shaft Assembly (for 1 Phase only) | | 1 |
| 108..... | 1/2SS-1C-113 | Capacitor Holder (for 1 Phase only) | Ø 65 | 1 |
| 109..... | 1/2SS-1C-114 | Rectifier (for 1 Phase only) | 50A | 1 |
| 118..... | 1/2SS-3C-123UG | Male Plug | 4P | 1 |
| 123..... | 1/2SS-3C-128 | Lock Nut | M3 | 8 |
| 124..... | 1/2SS-3C-129 | Chain Guide | | 1 |
| 125..... | 1/2SS-3C-130 | Fuse | 2A | 1 |
| 126..... | 1/2SS-3C-131 | Fuse Cover | | 1 |

Parts List: 1-Ton and 2-Ton Chain Hoists

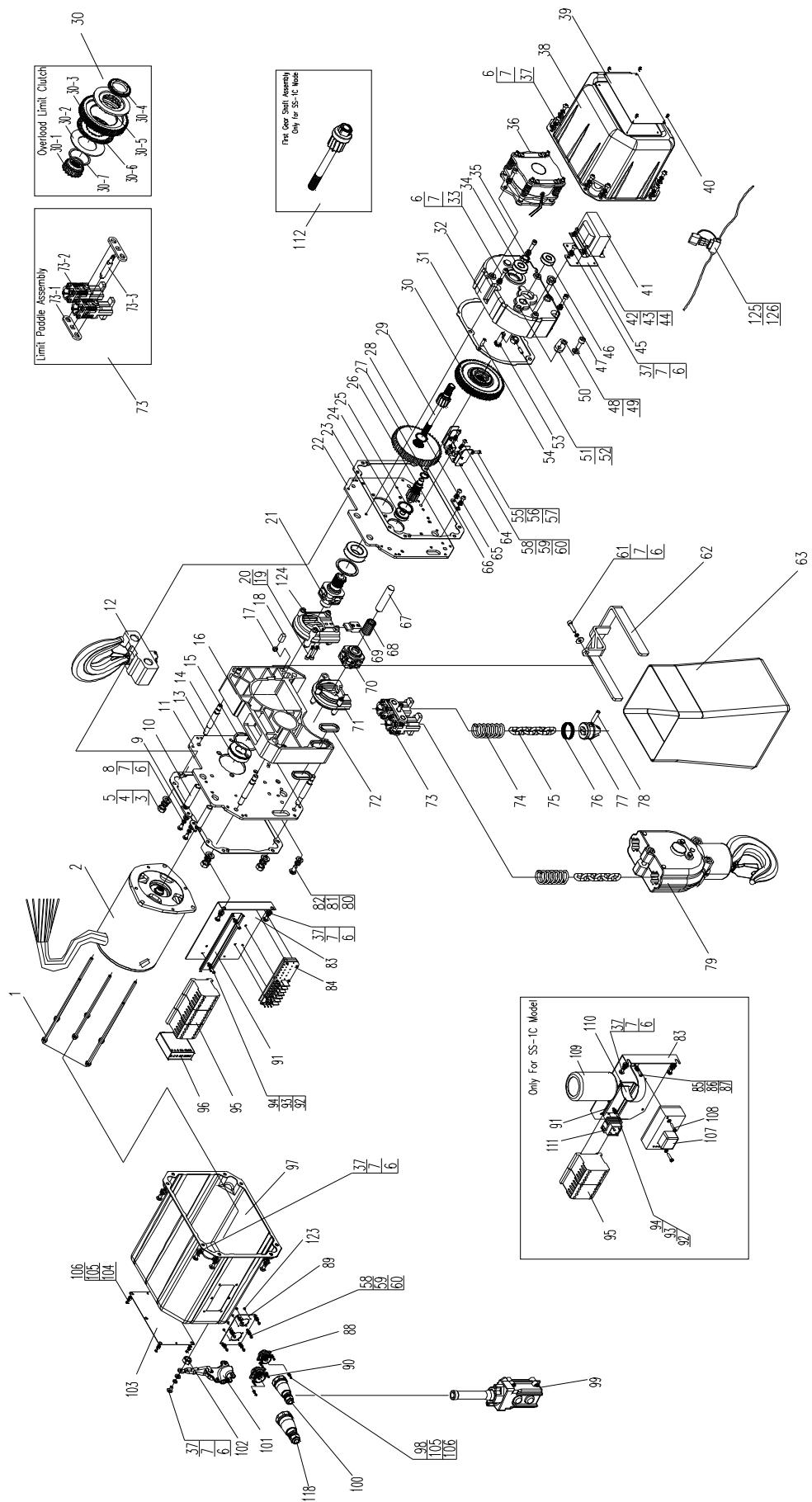
| Index No. | Part No. | Description | Size | Qty |
|-----------|----------------------|---|-----------------|-----|
| 1..... | ISS-3C-001 | Motor Stay Bolt (includes Lock Washer, Plain Washer) M8x16..... | 3 | |
| 2..... | ISS-1C-002A..... | Motor Assembly for 1 Phase | 1 | |
| ..... | ISS-3C-002A..... | Motor Assembly for 3 Phase | 1 | |
| 3..... | 1/2SS-3C-008 | Hex Nut | M10 | 8 |
| 4..... | 1/2SS-3C-009 | Lock Washer | 10mm | 8 |
| 5..... | 1/2SS-3C-010 | Plain Washer | 10mm | 8 |
| 6..... | 1/2SS-3C-011 | Plain Washer | 6mm | 30 |
| 7..... | 1/2SS-3C-012 | Lock Washer | 6mm | 30 |
| 8..... | 1/2SS-3C-013 | Phillips Pan Head Machine Screw | M6x12 | 2 |
| 9..... | ISS-3C-014 | Stay Bolt Block for Top Hook Assembly ..... | ..... | 2 |
| 10..... | ISS-3C-015 | Stay Bolt for Top Hook Assembly..... | ..... | 2 |
| 11..... | ISS-3C-016 | Motor Side Plate ..... | ..... | 1 |
| 12..... | ISS-3C-017 | Top Hook Assembly for 1-Ton ..... | ..... | 1 |
| ..... | 2SS-3C-017 | Top Hook Assembly for 2-Ton ..... | ..... | 1 |
| 13..... | ISS-3C-018 | Stay Bolt for Motor Side Plate ..... | ..... | 4 |
| 14..... | ISS-3C-019 | Ball Bearing with Retainer..... | 150207 | 2 |
| 15..... | ISS-3C-020 | Stop Ring | 72/78.8 | 2 |
| 16..... | ISS-3C-021 | Sheave Cover..... | ..... | 1 |
| 17..... | ISS-3C-022 | Lock Nut | M8 | 1 |
| 18..... | ISS-3C-023 | Rubber Plug ..... | ..... | 2 |
| 19..... | ISS-3C-024 | Socket Head Cap Screw..... | M6x25 | 2 |
| 20..... | ISS-3C-025 | Lock Washer | 6mm | 2 |
| 21..... | ISS-3C-026 | Lift Wheel ..... | ..... | 1 |
| 22..... | ISS-3C-027 | Gear Side Plate ..... | ..... | 1 |
| 23..... | ISS-3C-028 | Gear Side Plate Gasket ..... | ..... | 2 |
| 24..... | ISS-3C-029 | Ball Bearing with Retainer..... | 50403 | 1 |
| 25..... | ISS-3C-030 | Stop Ring | 62/67.6 | 1 |
| 26..... | ISS-3C-031 | Second Gear Shaft ..... | ..... | 1 |
| 27..... | ISS-3C-032 | Snap Ring | 20mm | 1 |
| 28..... | ISS-3C-033 | Lift Gear ..... | ..... | 1 |
| 29..... | ISS-3C-034 | First Gear Shaft for 3 Phase ..... | ..... | 1 |
| 30..... | ISS-3C-035 | Overload Limit Clutch for 3PH..... | ..... | 1 |
| ..... | ISS-1C-035 | Overload Limit Clutch for 1PH..... | ..... | 1 |
| 30-1..... | ISS-3C-03501 | Spline Sleeve ..... | ..... | 1 |
| 30-2..... | ISS-3C-03502 | Wing Spring..... | ..... | 1 |
| 30-3..... | ISS-1C-03503 | Middle Gear for 1 Phase ..... | ..... | 1 |
| ..... | ISS-3C-03503 | Middle Gear for 3 Phase ..... | ..... | 1 |
| 30-4..... | ISS-3C-03504 | Adjust Round Nut ..... | ..... | 1 |
| 30-5..... | ISS-3C-03505 | Clutch Support..... | ..... | 1 |
| 30-6..... | ISS-3C-03506 | Friction Disc ..... | ..... | 1 |
| 30-7..... | ISS-3C-03507 | Adjust Washer ..... | ..... | 1 |
| 31..... | ISS-3C-036 | Gear Case Seal ..... | ..... | 1 |
| 32..... | ISS-3C-037 | Gear Case ..... | ..... | 1 |
| 33..... | 1/2SS-3C-038 | Socket Head Cap Screw..... | M6x20 | 5 |
| 34..... | ISS-3C-039 | Ball Bearing..... | 180205kz1 | 1 |
| 35..... | ISS-3C-040 | Snap Ring (for 3 Phase only) | 25mm | 1 |
| 36..... | ISS-1C-041 | DC Brake for 1 Phase ..... | ..... | 1 |
| ..... | ISS-3C-041 | DC Brake for 3 Phase ..... | ..... | 1 |
| 37..... | 1/2SS-3C-042 | Pan Head Screw | M6x10 | 20 |
| 38..... | ISS-3C-043 | Gear Side Cover ..... | ..... | 1 |
| 39..... | LM000109 | Capacity Label for 1-Ton ..... | ..... | 1 |
| ..... | LM000112 | Capacity Label for 2-Ton ..... | ..... | 1 |
| 40..... | 1/2SS-3C-045 | Socket Head Cap Screw..... | M3x6 | 4 |
| 41..... | 1/2SS-1C-046UG | Transformer for 1 Phase ..... | ..... | 1 |
| ..... | 1/2SS-3C-046UG | Transformer for 3 Phase ..... | ..... | 1 |
| 42..... | 1/2SS-3C-047 | Phillips Pan Head Machine Screw | M4x6 | 4 |
| 43..... | TS-2361041 | Lock Washer | 4mm | 4 |

| Index No. | Part No. | Description | Size | Qty |
|------------------|-----------------|--|-------------|------------|
| 44 | TS-1550021 | Plain Washer | 4mm | 4 |
| 45 | 1/2SS-3C-050 | Transformer Bracket | | 1 |
| 46 | 1SS-3C-051 | Ball Bearing | 180203kz1 | 1 |
| 47 | 1SS-3C-052 | Steel Collar | | 1 |
| 48 | TS-1550061 | Plain Washer | 8mm | 1 |
| 49 | 1/2SS-3C-054 | Socket Head Cap Screw | M8x20 | 1 |
| 50 | 1SS-3C-055 | Lock Plate for Clutch | | 1 |
| 51 | 1/2SS-3C-056 | Round Pin | A5x16 | 1 |
| 52 | 1/2SS-3C-057 | Adjust Round Nut | | 1 |
| 53 | 1SS-3C-058 | Adjust Shaft | | 1 |
| 54 | 1/2SS-3C-059 | Round Pin | A6x12 | 2 |
| 55 | 1/2SS-3C-060 | Phillips Pan Head Machine Screw | M4x16 | 1 |
| 56 | TS-1550021 | Plain Washer | 4mm | 1 |
| 57 | 1/2SS-3C-062 | Hex Nut | M4 | 1 |
| 58 | 1/2SS-3C-063 | Phillips Pan Head Machine Screw | M5x10 | 8 |
| 59 | TS-2361051 | Lock Washer | 5mm | 8 |
| 60 | TS-1550031 | Plain Washer | 5mm | 8 |
| 61 | 1SS-3C-066 | Socket Head Cap Screw | M8x25 | 1 |
| 62 | 1/2SS-3C-067 | Chain Container Bracket | | 1 |
| 63 | | Chain Container (see chart page 19) | | 1 |
| 64 | 1/2SS-3C-069UG | Limit Switch Set | | 1 |
| 65 | 1SS-3C-070 | Snap Ring | 34mm | 1 |
| 66 | 1SS-3C-071 | Block | | 1 |
| 67 | 1/2SS-3C-072 | Cable Input Seal | | 2 |
| 68 | 1SS-3C-073 | Limit Paddle Assembly | | 1 |
| 68-1 | 1SS-3C-07301 | Side Plate | | 2 |
| 68-2 | 1SS-3C-07302 | Chain Guide Block | | 1 |
| 68-3 | 1SS-3C-07303 | Chain Guide Shaft | | 1 |
| 69 | 1SS-3C-074 | Limit Spring | | 2 |
| 70 | 1SS-3C-075 | Load Chain for 1T, 2T, 3T, and 5T * | Ø 8x24mm | 1 |
| 71 | 1SS-3C-076 | Retainer Ring | | 1 |
| 72 | 1SS-3C-077 | Chain Stop | | 1 |
| 73 | 1SS-3C-078 | Pin | | 1 |
| 74 | 1SS-3C-079 | Bottom Hook Assembly for 1-Ton | | 1 |
| 75 | 1SS-3C-080 | Suspension Chain Block for 2-Ton | | 1 |
| 75-1 | 1SS-3C-08001 | Phillips Pan Head Machine Screw | M6x16 | 2 |
| 75-2 | 1/2SS-3C-012 | Lock Washer | 6mm | 2 |
| 75-3 | 1/2SS-3C-011 | Plain Washer | 6mm | 2 |
| 75-4 | 2SS-3C-08004 | Cover | | 1 |
| 75-5 | 2SS-3C-08005 | Shaft | | 2 |
| 75-6 | 2SS-3C-08006 | Chain Holder | | 2 |
| 75-7 | 2SS-3C-08007 | Pin | | 1 |
| 75-8 | 1/2SS-3C-053 | Plain Washer | 8mm | 1 |
| 75-9 | 1SS-3C-08009 | Slotted Hex Nut | M8 | 1 |
| 75-10 | 1SS-3C-08010 | Cotter Pin | 2x16mm | 1 |
| 76 | 1SS-3C-081 | Phillips Pan Head Machine Screw | M8x16 | 1 |
| 77 | 1/2SS-3C-082 | Lock Washer | 8mm | 1 |
| 78 | TS-1550061 | Plain Washer | 8mm | 1 |
| 79 | 1/2SS-3C-084 | Motor Cover Packing | | 2 |
| 80 | 1/2SS-1C-085 | Electric Component Board for 1 Phase | | 1 |
| | 1/2SS-3C-085 | Electric Component Board for 3 Phase | | 1 |
| 81 | 1/2SS-3C-086 | Volts Conversion (for 3 Phase Single Speed) | | 1 |
| 82 | 1/2SS-3C-047 | Phillips Pan Head Machine Screw (1 Phase only) | M4x6 | 1 |
| 83 | TS-2361041 | Lock Washer (1 Phase only) | 4mm | 1 |
| 84 | TS-1550021 | Plain Washer (1 Phase only) | 4mm | 1 |
| 85 | 1/2SS-3C-090UG | Female Connector for Push Button Cord | 7P | 1 |
| 86 | 1/2SS-3C-091UG | Quick Connector Board | | 1 |

* Specify length of Load Chain when ordering.

| Index No. | Part No. | Description | Size | Qty |
|------------------|-----------------|--|--------------------|------------|
| 87 | 1/2SS-3C-092UG | Female Connector for Power Cord | 4P | 1 |
| 88 | 1SS-1C-093 | Contactor Holder for 1 Phase | | 1 |
| | 1/2SS-3C-093 | Contactor Holder for 3 Phase | | 1 |
| 89 | TS-2284082 | Phillips Pan Head Machine Screw | M4x8 | 2 |
| 90 | TS-2361041 | Lock Washer | 4mm | 2 |
| 91 | TS-1550021 | Plain Washer | 4mm | 2 |
| 92 | 1/2SS-1C-097UG | Magnetic Contactor for 1 Phase | | 2 |
| | 1/2SS-3C-097UG | Magnetic Contactor for 3 Phase, single speed | | 2 |
| 93 | 1/2SS-3C-098 | Reverse Phase Inspector (3 Phase only) | 230V/460V/3Ph/60Hz | 1 |
| 94 | 1/2SS-1C-099-A | Solid State Switch (1 Phase only) | | 1 |
| 95 | TS-2284352 | Phillips Pan Head Machine Screw | M4x35 | 2 |
| 96 | 1/2SS-1C-101 | Capacitor (1 Phase only) | Ø65, 600uF | 1 |
| 97 | 1SS-3C-102UG | Motor Side Cover | | 1 |
| 98 | 1/2SS-3C-103UG | Phillips Pan Head Machine Screw | M3x12 | 8 |
| 99 | 1/2SS-3C-104 | Pushbutton Control for 1 Phase and 3 Phase, Single Speed | | 1 |
| 100 | 1/2SS-3C-105UG | Male Plug | 7P | 1 |
| 101 | 1/2SS-3C-106 | Cable Holder | | 1 |
| 102 | 1/2SS-3C-022 | Lock Nut | M6 | 1 |
| 103 | LM000110 | Name Plate for 1-Ton 3PH | | 1 |
| | LM000111 | Name Plate for 1-Ton 1PH | | 1 |
| | LM000113 | Name Plate for 2-Ton 3PH | | 1 |
| | LM000114 | Name Plate for 2-Ton 1PH | | 1 |
| 104 | 1/2SS-3C-109 | Phillips Pan Head Machine Screw | M3x6 | 4 |
| 105 | 1/2SS-3C-110 | Lock Washer | 3mm | 12 |
| 106 | 1/2SS-3C-111 | Plain Washer | 3mm | 12 |
| 107 | 1SS-1C-112 | First Gear Shaft Assembly (for 1 Phase only) | | 1 |
| 108 | 1/2SS-1C-113 | Capacitor Holder (for 1 Phase only) | Ø 65 | 1 |
| 109 | 1/2SS-1C-114 | Rectifier (for 1 Phase only) | 50A | 1 |
| 110 | 2SS-3C-115 | Bottom Hook Assembly for 2-Ton | | 1 |
| 118 | 1/2SS-3C-123UG | Male Plug | 4P | 1 |
| 123 | 1/2SS-3C-128 | Lock Nut | M3 | 8 |
| 124 | 1SS-3C-129 | Chain Guide | | 1 |
| 125 | 1/2SS-3C-130 | Fuse | 2A | 1 |
| 126 | 1/2SS-3C-131 | Fuse Cover | | 1 |

3-Ton Chain Hoist



Parts List: 3-Ton Chain Hoist

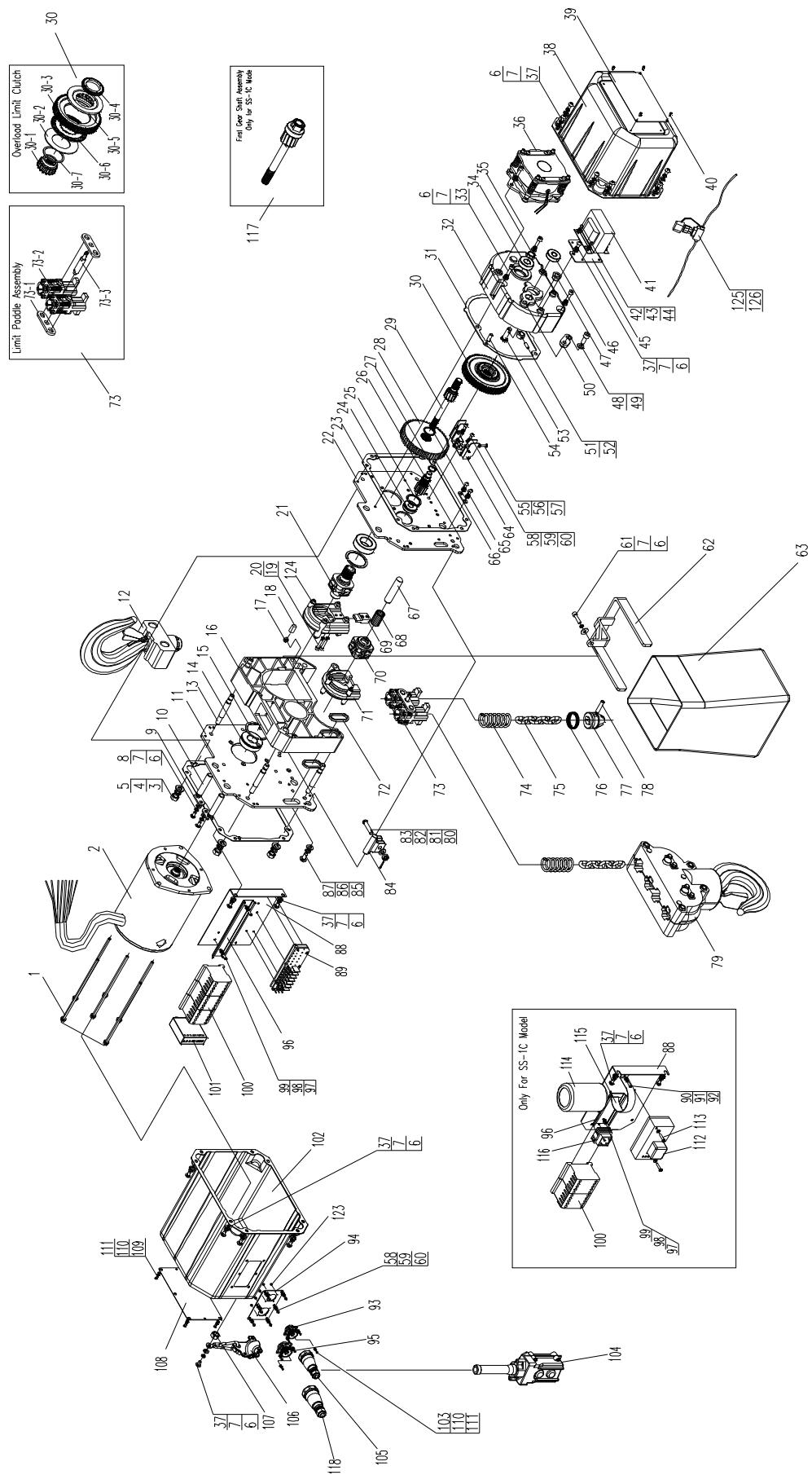
| Index No. | Part No. | Description | Size | Qty |
|-----------|----------------------|---|-----------------|-----|
| 1..... | 1SS-3C-001 | Motor Stay Bolt (includes Lock Washer, Plain Washer) M8x16..... | 3 | |
| 2..... | 1SS-1C-002A..... | Motor Assembly for 1 Phase | 1 | |
| ..... | 1SS-3C-002A..... | Motor Assembly for 3 Phase | 1 | |
| 3..... | 1/2SS-3C-008 | Hex Nut | M10 | 8 |
| 4..... | 1/2SS-3C-009 | Lock Washer | 10mm | 8 |
| 5..... | 1/2SS-3C-010 | Plain Washer | 10mm | 8 |
| 6..... | 1/2SS-3C-011 | Plain Washer | 6mm | 30 |
| 7..... | 1/2SS-3C-012 | Lock Washer | 6mm | 30 |
| 8..... | 1/2SS-3C-013 | Phillips Pan Head Machine Screw | M6x12 | 2 |
| 9..... | 1SS-3C-014 | Stay Bolt Block for Top Hook Assembly ..... | ..... | 2 |
| 10..... | 3SS-3C-015 | Stay Bolt for Top Hook Assembly..... | ..... | 2 |
| 11..... | 3SS-3C-016 | Motor Side Plate ..... | ..... | 1 |
| 12..... | 3SS-3C-017 | Top Hook Assembly for 3T ..... | ..... | 1 |
| 13..... | 1SS-3C-018 | Stay Bolt for Motor Side Plate ..... | ..... | 4 |
| 14..... | 1SS-3C-019 | Ball Bearing with Retainer..... | 150207 | 2 |
| 15..... | 1SS-3C-020 | Stop Ring | 72/78.8 | 2 |
| 16..... | 3SS-3C-021 | Sheave Cover..... | ..... | 1 |
| 17..... | 1SS-3C-022 | Lock Nut | M8 | 1 |
| 18..... | 1SS-3C-023 | Rubber Plug ..... | ..... | 2 |
| 19..... | 1SS-3C-024 | Socket Head Cap Screw..... | M6x25 | 2 |
| 20..... | 1SS-3C-025 | Lock Washer | 6mm | 2 |
| 21..... | 1SS-3C-026 | Lift Wheel ..... | ..... | 1 |
| 22..... | 3SS-3C-027 | Gear Side Plate ..... | ..... | 1 |
| 23..... | 1SS-3C-028 | Gear Side Plate Gasket ..... | ..... | 2 |
| 24..... | 1SS-3C-029 | Ball Bearing with Retainer..... | 50403 | 1 |
| 25..... | 1SS-3C-030 | Stop Ring | 62/67.6 | 1 |
| 26..... | 1SS-3C-031 | Second Gear Shaft ..... | ..... | 1 |
| 27..... | 1SS-3C-032 | Snap Ring | 20mm | 1 |
| 28..... | 1SS-3C-033 | Lift Gear ..... | ..... | 1 |
| 29..... | 1SS-3C-034 | First Gear Shaft for 3 Phase ..... | ..... | 1 |
| 30..... | 1SS-3C-035 | Overload Limit Clutch ..... | ..... | 1 |
| 30-1..... | 1SS-3C-03501 | Spline Sleeve ..... | ..... | 1 |
| 30-2..... | 1SS-3C-03502 | Wing Spring..... | ..... | 1 |
| 30-3..... | 1SS-1C-03503 | Middle Gear for 1 Phase ..... | ..... | 1 |
| ..... | 1SS-3C-03503 | Middle Gear for 3 Phase ..... | ..... | 1 |
| 30-4..... | 1SS-3C-03504 | Adjust Round Nut ..... | ..... | 1 |
| 30-5..... | 1SS-3C-03505 | Clutch Support..... | ..... | 1 |
| 30-6..... | 1SS-3C-03506 | Friction Disc ..... | ..... | 1 |
| 30-7..... | 1SS-3C-03507 | Adjust Washer ..... | ..... | 1 |
| 31..... | 1SS-3C-036 | Gear Case Seal ..... | ..... | 1 |
| 32..... | 1SS-3C-037 | Gear Case ..... | ..... | 1 |
| 33..... | 1/2SS-3C-038 | Socket Head Cap Screw..... | M6x20 | 5 |
| 34..... | 1SS-3C-039 | Ball Bearing | 180205kz1 | 1 |
| 35..... | 1SS-3C-040 | Snap Ring (for 3 Phase only) | 25mm | 1 |
| 36..... | 1SS-1C-041 | DC Brake for 1 Phase ..... | ..... | 1 |
| ..... | 1SS-3C-041 | DC Brake for 3 Phase ..... | ..... | 1 |
| 37..... | 1/2SS-3C-042 | Phillips Pan Head Machine Screw | M6x10 | 20 |
| 38..... | 1SS-3C-043 | Gear Side Cover ..... | ..... | 1 |
| 39..... | LM000115..... | Capacity Label for 3-Ton..... | ..... | 1 |
| 40..... | 1/2SS-3C-045 | Socket Head Cap Screw..... | M3x6 | 4 |
| 41..... | 1/2SS-1C-046UG | Transformer for 1 Phase ..... | ..... | 1 |
| ..... | 1/2SS-3C-046UG | Transformer for 3 Phase ..... | ..... | 1 |
| 42..... | 1/2SS-3C-047 | Phillips Pan Head Machine Screw | M4x6 | 4 |
| 43..... | TS-2361041 | Lock Washer | 4mm | 4 |
| 44..... | TS-1550021 | Plain Washer | 4mm | 4 |
| 45..... | 1/2SS-3C-050 | Transformer Bracket ..... | ..... | 1 |

| Index No. | Part No. | Description | Size | Qty |
|------------------|-----------------|--|-------------|------------|
| 46 | 1SS-3C-051 | Ball Bearing | 180203kz1 | 1 |
| 47 | 1SS-3C-052 | Steel Collar | | 1 |
| 48 | TS-1550061 | Plain Washer | 8mm | 1 |
| 49 | 1/2SS-3C-054 | Socket Head Cap Screw | M8x20 | 1 |
| 50 | 1SS-3C-055 | Lock Plate for Clutch | | 1 |
| 51 | 1/2SS-3C-056 | Round Pin | A5x16 | 1 |
| 52 | 1/2SS-3C-057 | Adjust Round Nut | | 1 |
| 53 | 1SS-3C-058 | Adjust Shaft | | 1 |
| 54 | 1/2SS-3C-059 | Round Pin | A6x12 | 2 |
| 55 | 1/2SS-3C-060 | Phillips Pan Head Machine Screw | M4x16 | 1 |
| 56 | TS-1550021 | Plain Washer | 4mm | 1 |
| 57 | 1/2SS-3C-062 | Hex Nut | M4 | 1 |
| 58 | 1/2SS-3C-063 | Phillips Pan Head Machine Screw | M5x10 | 8 |
| 59 | TS-2361051 | Lock Washer | 5mm | 8 |
| 60 | TS-1550031 | Plain Washer | 5mm | 8 |
| 61 | 1SS-3C-066 | Socket Head Cap Screw | M8x25 | 1 |
| 62 | 1/2SS-3C-067 | Chain Container Bracket | | 1 |
| 63 | | Chain Container (see chart page 19) | | 1 |
| 64 | 1/2SS-3C-069UG | Limit Switch Set | | 1 |
| 65 | 1SS-3C-070 | Snap Ring | 34mm | 1 |
| 66 | 3SS-3C-061 | Hinge Plate | | 1 |
| 67 | 3SS-3C-064 | Sheave Shaft | | 1 |
| 68 | 3SS-3C-083 | Needle | 3x39.8b | 24 |
| 69 | 1SS-3C-071 | Block | | 1 |
| 70 | 3SS-3C-088 | Sheave | | 1 |
| 71 | 3SS-3C-089 | Sheave Guide | | 1 |
| 72 | 1/2SS-3C-072 | Cable Input Seal | | 2 |
| 73 | 1SS-3C-073 | Limit Paddle Assembly | | 1 |
| 73-1 | 1SS-3C-07301 | Side Plate | | 2 |
| 73-2 | 1SS-3C-07302 | Chain Guide Block | | 1 |
| 73-3 | 1SS-3C-07303 | Chain Guide Shaft | | 1 |
| 74 | 1SS-3C-074 | Limit Spring | | 2 |
| 75 | 1SS-3C-075 | Load Chain for 1T, 2T, 3T and 5T * | Ø 8x24mm | 1 |
| 76 | 1SS-3C-076 | Retainer Ring | | 1 |
| 77 | 1SS-3C-077 | Chain Stop | | 1 |
| 78 | 1SS-3C-078 | Pin | | 1 |
| 79 | 3SS-3C-079 | Bottom Hook Assembly for 3T | | 1 |
| 80 | 1SS-3C-081 | Phillips Pan Head Machine Screw | M8x16 | 1 |
| 81 | 1/2SS-3C-082 | Lock Washer | 8mm | 1 |
| 82 | TS-1550061 | Plain Washer | 8mm | 1 |
| 83 | 1/2SS-1C-085 | Electric Component Board for 1 Phase | | 1 |
| | 1/2SS-3C-085 | Electric Component Board for 3 Phase | | 1 |
| 84 | 1/2SS-3C-086 | Volts Conversion (for 3 Phase Single Speed) | | 1 |
| 85 | 1/2SS-3C-047 | Phillips Pan Head Machine Screw (for 1 Phase only) | M4x6 | 1 |
| 86 | TS-2361041 | Lock Washer (for 1 Phase only) | 4mm | 1 |
| 87 | TS-1550021 | Plain Washer (for 1 Phase only) | 4mm | 1 |
| 88 | 1/2SS-3C-090UG | Female Connector for Push Button Cord | 7P | 1 |
| 89 | 1/2SS-3C-091UG | Quick Connector Board | | 1 |
| 90 | 1/2SS-3C-092UG | Female Connector for Power Cord | 4P | 1 |
| 91 | 1SS-1C-093 | Contactor Holder for 1 Phase | | 1 |
| | 1/2SS-3C-093 | Contactor Holder for 3 Phase | | 1 |
| 92 | TS-2284082 | Phillips Pan Head Machine Screw | M4x8 | 2 |
| 93 | TS-2361041 | Lock Washer | 4mm | 2 |
| 94 | TS-1550021 | Plain Washer | 4mm | 2 |
| 95 | 1/2SS-1C-097UG | Magnetic Contactor for 1 Phase | | 2 |
| | 1/2SS-3C-097UG | Magnetic Contactor for 3 Phase, single speed | | 2 |

* Specify length of Load Chain when ordering.

| Index No. | Part No. | Description | Size | Qty |
|------------------|----------------------|--|--------------------------|------------|
| 96..... | 1/2SS-3C-098 | Reverse Phase Inspector (3 Phase only) | 230V/460V/3Ph/60Hz | 1 |
| 97..... | 1SS-3C-102UG | Motor Side Cover..... | | 1 |
| 98..... | 1/2SS-3C-103UG | Phillips Pan Head Machine Screw | M3x12 | 8 |
| 99..... | 1/2SS-3C-104 | Pushbutton Control for 1 Phase and 3 Phase, Single Speed | | 1 |
| 100..... | 1/2SS-3C-105UG | Male Plug | 7P..... | 1 |
| 101..... | 1/2SS-3C-106 | Cable Holder | | 1 |
| 102..... | 1/2SS-3C-022 | Lock Nut..... | M6..... | 1 |
| 103..... | LM000116..... | Name Plate for 3T 3PH..... | | 1 |
| ..... | LM000117..... | Name Plate for 3T 1PH..... | | 1 |
| 104..... | 1/2SS-3C-109 | Phillips Pan Head Machine Screw | M3x6 | 4 |
| 105..... | 1/2SS-3C-110 | Lock Washer | 3mm | 8 |
| 106..... | 1/2SS-3C-111 | Plain Washer..... | 3mm | 8 |
| 107..... | 1/2SS-1C-099-A..... | Solid State Switch (1 Phase only) | | 1 |
| 108..... | TS-2284352 | Phillips Pan Head Machine Screw | M4x35 | 2 |
| 109..... | 1/2SS-1C-101 | Capacitor (for 1 Phase only) | Ø65, 600uF | 1 |
| 110..... | 1/2SS-1C-113 | Capacitor Holder (for 1 Phase only) | Ø 65 | 1 |
| 111..... | 1/2SS-1C-114 | Rectifier (for 1 Phase only) | 50A..... | 1 |
| 112..... | 1SS-1C-112 | First Gear Shaft Assembly (for 1 Phase only)..... | | 1 |
| 118..... | 1/2SS-3C-123UG | Male Plug | 4P..... | 1 |
| 123..... | 1/2SS-3C-128 | Lock Nut..... | M3..... | 8 |
| 124..... | 1SS-3C-129 | Chain Guide | | 1 |
| 125..... | 1/2SS-3C-130 | Fuse | 2A..... | 1 |
| 126..... | 1/2SS-3C-131 | Fuse Cover..... | | 1 |

5-Ton Chain Hoist



Parts List: 5-Ton Chain Hoist

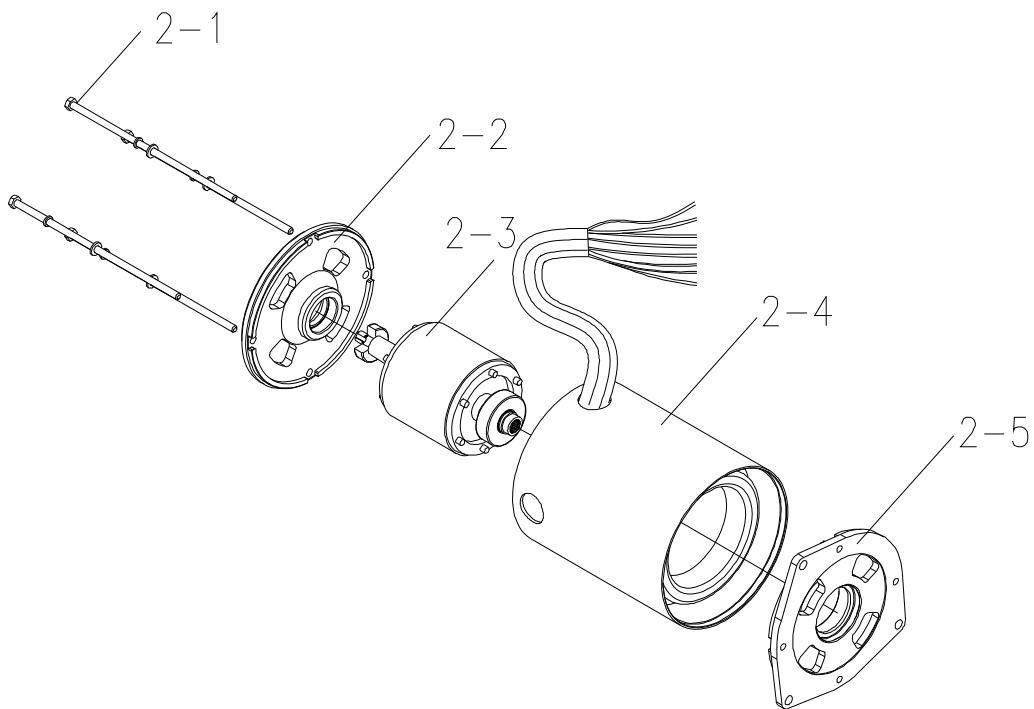
| Index No. | Part No. | Description | Size | Qty |
|-----------|----------------------|---|-----------------|-----|
| 1..... | 1SS-3C-001 | Motor Stay Bolt (include Lock Washer, Plain Washer) M8x16 | 3 | |
| 2..... | 1SS-1C-002A..... | Motor Assembly for 1 Phase | 1 | |
| ..... | 1SS-3C-002A..... | Motor Assembly for 3 Phase | 1 | |
| 3..... | 1/2SS-3C-008 | Hex Nut | M10 | 8 |
| 4..... | 1/2SS-3C-009 | Lock Washer | 10mm | 8 |
| 5..... | 1/2SS-3C-010 | Plain Washer | 10mm | 8 |
| 6..... | 1/2SS-3C-011 | Plain Washer | 6mm | 30 |
| 7..... | 1/2SS-3C-012 | Lock Washer | 6mm | 30 |
| 8..... | 1/2SS-3C-013 | Phillips Pan Head Machine Screw | M6x12 | 2 |
| 9..... | 1SS-3C-014 | Stay Bolt Block for Top Hook Assembly ..... | ..... | 2 |
| 10..... | 3SS-3C-015 | Stay Bolt for Top Hook Assembly ..... | ..... | 2 |
| 11..... | 5SS-3C-016 | Motor Side Plate ..... | ..... | 1 |
| 12..... | 5SS-3C-017 | Top Hook Assembly for 5T ..... | ..... | 1 |
| 13..... | 1SS-3C-018 | Stay Bolt for Motor Side Plate ..... | ..... | 4 |
| 14..... | 1SS-3C-019 | Ball Bearing with Retainer | 150207 | 2 |
| 15..... | 1SS-3C-020 | Stop Ring | 72/78.8 | 2 |
| 16..... | 3SS-3C-021 | Sheave Cover ..... | ..... | 1 |
| 17..... | 1SS-3C-022 | Lock Nut | M8 | 1 |
| 18..... | 1SS-3C-023 | Rubber Plug ..... | ..... | 2 |
| 19..... | 1SS-3C-024 | Socket Head Cap Screw | M6x25 | 2 |
| 20..... | 1SS-3C-025 | Lock Washer | 6mm | 2 |
| 21..... | 1SS-3C-026 | Lift Wheel ..... | ..... | 1 |
| 22..... | 5SS-3C-027 | Gear Side Plate ..... | ..... | 1 |
| 23..... | 1SS-3C-028 | Gear Side Plate Gasket ..... | ..... | 2 |
| 24..... | 1SS-3C-029 | Ball Bearing with Retainer | 50403 | 1 |
| 25..... | 1SS-3C-030 | Stop Ring | 62/67.6 | 1 |
| 26..... | 5SS-3C-031 | Second Gear Shaft ..... | ..... | 1 |
| 27..... | 1SS-3C-032 | Snap Ring | 20mm | 1 |
| 28..... | 5SS-3C-033 | Lift Gear ..... | ..... | 1 |
| 29..... | 1SS-3C-034 | First Gear Shaft for 3 Phase ..... | ..... | 1 |
| 30..... | 1SS-3C-035 | Overload Limit Clutch ..... | ..... | 1 |
| 30-1..... | 1SS-3C-03501 | Spline Sleeve ..... | ..... | 1 |
| 30-2..... | 1SS-3C-03502 | Wing Spring ..... | ..... | 1 |
| 30-3..... | 1SS-1C-03503 | Middle Gear for 1 Phase ..... | ..... | 1 |
| ..... | 1SS-3C-03503 | Middle Gear for 3 Phase ..... | ..... | 1 |
| 30-4..... | 1SS-3C-03504 | Adjust Round Nut ..... | ..... | 1 |
| 30-5..... | 1SS-3C-03505 | Clutch Support ..... | ..... | 1 |
| 30-6..... | 1SS-3C-03506 | Friction Disc ..... | ..... | 1 |
| 30-7..... | 1SS-3C-03507 | Adjust Washer ..... | ..... | 1 |
| 31..... | 1SS-3C-036 | Gear Case Seal ..... | ..... | 1 |
| 32..... | 1SS-3C-037 | Gear Case ..... | ..... | 1 |
| 33..... | 1/2SS-3C-038 | Socket Head Cap Screw | M6x20 | 5 |
| 34..... | 1SS-3C-039 | Ball Bearing | 180205kz1 | 1 |
| 35..... | 1SS-3C-040 | Snap Ring (for 3 Phase only) | 25mm | 1 |
| 36..... | 1SS-1C-041 | DC Brake for 1 Phase ..... | ..... | 1 |
| ..... | 1SS-3C-041 | DC Brake for 3 Phase ..... | ..... | 1 |
| 37..... | 1/2SS-3C-042 | Phillips Pan Head Machine Screw | M6x10 | 20 |
| 38..... | 1SS-3C-043 | Gear Side Cover ..... | ..... | 1 |
| 39..... | LM000118..... | Capacity Label for 5-Ton ..... | ..... | 1 |
| 40..... | 1/2SS-3C-045 | Socket Head Cap Screw | M3x6 | 4 |
| 41..... | 1/2SS-1C-046UG | Transformer for 1 Phase ..... | ..... | 1 |
| ..... | 1/2SS-3C-046UG | Transformer for 3 Phase ..... | ..... | 1 |
| 42..... | 1/2SS-3C-047 | Phillips Pan Head Machine Screw | M4x6 | 4 |
| 43..... | TS-2361041 | Lock Washer | 4mm | 4 |
| 44..... | TS-1550021 | Plain Washer | 4mm | 4 |
| 45..... | 1/2SS-3C-050 | Transformer Bracket ..... | ..... | 1 |
| 46..... | 1SS-3C-051 | Ball Bearing | 180203kz1 | 1 |

| Index No. | Part No. | Description | Size | Qty |
|------------------|-----------------|--|----------------|------------|
| 47 | 1SS-3C-052 | Steel Collar..... | | 1 |
| 48 | TS-1550061 | Plain Washer..... | 8mm | 1 |
| 49 | 1/2SS-3C-054 | Socket Head Cap Screw..... | M8x20 | 1 |
| 50 | 1SS-3C-055 | Lock Plate for Clutch..... | | 1 |
| 51 | 1/2SS-3C-056 | Round Pin | A5x16 | 1 |
| 52 | 1/2SS-3C-057 | Adjust Round Nut | | 1 |
| 53 | 1SS-3C-058 | Adjust Shaft..... | | 1 |
| 54 | 1/2SS-3C-059 | Round Pin | A6x12 | 2 |
| 55 | 1/2SS-3C-060 | Phillips Pan Head Machine Screw | M4x16 | 1 |
| 56 | TS-1550021 | Plain Washer..... | 4mm | 1 |
| 57 | 1/2SS-3C-062 | Hex Nut | M4 | 1 |
| 58 | 1/2SS-3C-063 | Phillips Pan Head Machine Screw | M5x10 | 8 |
| 59 | TS-2361051 | Lock Washer | 5mm | 8 |
| 60 | TS-1550031 | Plain Washer..... | 5mm | 8 |
| 61 | 1SS-3C-066 | Socket Head Cap Screw..... | M8x25 | 1 |
| 62 | 1/2SS-3C-067 | Chain Container Bracket..... | | 1 |
| 63 | | Chain Container (see chart page 19) | | 1 |
| 64 | 1/2SS-3C-069UG | Limit Switch Set..... | | 1 |
| 65 | 1SS-3C-070 | Snap Ring | 34mm | 1 |
| 66 | 3SS-3C-061 | Hinge Plate..... | | 1 |
| 67 | 3SS-3C-064 | Sheave Shaft..... | | 1 |
| 68 | 3SS-3C-083 | Needle..... | 3x39.8b | 24 |
| 69 | 1SS-3C-071 | Block | | 1 |
| 70 | 3SS-3C-088 | Sheave..... | | 1 |
| 71 | 3SS-3C-089 | Sheave Guide..... | | 1 |
| 72 | 1/2SS-3C-072 | Cable Input Seal..... | | 2 |
| 73 | 1SS-3C-073 | Limit Paddle Assembly | | 1 |
| 73-1 | 1SS-3C-07301 | Side Plate..... | | 2 |
| 73-2 | 1SS-3C-07302 | Chain Guide Block..... | | 1 |
| 73-3 | 1SS-3C-07303 | Chain Guide Shaft | | 1 |
| 74 | 1SS-3C-074 | Limit Spring | | 2 |
| 75 | 1SS-3C-075 | Load Chain for 1T, 2T, 3T, and 5T * | Ø 8x24mm | 1 |
| 76 | 1SS-3C-076 | Retainer Ring | | 1 |
| 77 | 1SS-3C-077 | Chain Stop | | 1 |
| 78 | 1SS-3C-078 | Pin..... | | 1 |
| 79 | 5SS-3C-079 | Bottom Hook Assembly for 5T | | 1 |
| 80 | 2SS-3C-08007 | Pin..... | | 1 |
| 81 | 1/2SS-3C-010 | Plain Washer..... | 10mm | 1 |
| 82 | 1SS-3C-08009 | Slotted Hex Nut | M10 | 1 |
| 83 | 5SS-3C-088 | Cotton Pin | 2.5x20 | 1 |
| 84 | 5SS-3C-08006 | Chain Holder | | 1 |
| 85 | 1SS-3C-081 | Phillips Pan Head Machine Screw | M8x16 | 1 |
| 86 | 1/2SS-3C-082 | Lock Washer | 8mm | 1 |
| 87 | 1/2SS-3C-053 | Plain Washer | 8mm | 1 |
| 88 | 1/2SS-1C-085 | Electric Component Board for 1 Phase | | 1 |
| | 1/2SS-3C-085 | Electric Component Board for 3 Phase | | 1 |
| 89 | 1/2SS-3C-086 | Volts Conversion (for 3 Phase Single Speed)..... | | 1 |
| 90 | 1/2SS-3C-047 | Phillips Pan Head Machine Screw (for 1 Phase only) M4x6..... | | 1 |
| 91 | TS-2361041 | Lock Washer (for 1 Phase only)..... | 4mm | 1 |
| 92 | TS-1550021 | Plain Washer (for 1 Phase only)..... | 4mm | 1 |
| 93 | 1/2SS-3C-090UG | Female Connector for Push Button Cord..... | 7P | 1 |
| 94 | 1/2SS-3C-091UG | Quick Connector Board | | 1 |
| 95 | 1/2SS-3C-092UG | Female Connector for Power Cord | 4P | 1 |
| 96 | 1SS-1C-093 | Contactor Holder for 1 Phase..... | | 1 |
| | 1/2SS-3C-093 | Contactor Holder for 3 Phase..... | | 1 |
| 97 | TS-2284082 | Phillips Pan Head Machine Screw | M4x8 | 2 |

* Specify length of Load Chain when ordering.

| Index No. | Part No. | Description | Size | Qty | |
|------------------|----------------------|--|--------------------------|------------|---|
| 98..... | TS-2361041 | Lock Washer | 4mm | 2 | |
| 99..... | TS-1550021 | Plain Washer | 4mm | 2 | |
| 100..... | 1/2SS-1C-097UG | Magnetic Contactor for 1 Phase..... | ..... | 2 | |
| ..... | 1/2SS-3C-097UG | Magnetic Contactor for 3 Phase, single speed ..... | ..... | 2 | |
| 101..... | 1/2SS-3C-098 | Reverse Phase Inspector (3 Phase only) | 230V/460V/3Ph/60Hz | 1 | |
| 102..... | 1SS-3C-102UG | Motor Side Cover..... | ..... | 1 | |
| 103..... | 1/2SS-3C-103UG | Phillips Pan Head Machine Screw | M3x12 | 8 | |
| 104..... | 1/2SS-3C-104 | Pushbutton Control for 1 Phase and 3 Phase, Single Speed ..... | ..... | 1 | |
| 105..... | 1/2SS-3C-105UG | Male Plug | 7P | 1 | |
| 106..... | 1/2SS-3C-106 | Cable Holder ..... | ..... | 1 | |
| 107..... | 1/2SS-3C-022 | Lock Nut | M6 | 1 | |
| 108..... | LM000119..... | Name Plate for 5T 3PH..... | ..... | 1 | |
| ..... | LM000120..... | Name Plate for 5T 1PH..... | ..... | 1 | |
| 109..... | 1/2SS-3C-109 | Phillips Pan Head Machine Screw | M3x6 | 4 | |
| 110..... | 1/2SS-3C-110 | Lock Washer | 3mm | 12 | |
| 111..... | 1/2SS-3C-111 | Plain Washer | 3mm | 12 | |
| 112..... | 1/2SS-1C-099-A..... | Solid State Switch (1 Phase only) ..... | ..... | 1 | |
| 113..... | TS-2284352 | Phillips Pan Head Machine Screw | M4x35 | 2 | |
| 114..... | 1/2SS-1C-101 | Capacitor (for 1 Phase only) | Ø65, 600uF | 1 | |
| 115..... | 1/2SS-1C-113 | Capacitor Holder (for 1 Phase only) | Ø 65 | 1 | |
| 116..... | 1/2SS-1C-114 | Rectifier (for 1 Phase only) | 50A..... | 1 | |
| 117..... | 1SS-1C-112 | First Gear Shaft Assembly (for 1 Phase only)..... | ..... | 1 | |
| 118..... | 1/2SS-3C-123UG | Male Plug | 4P | 1 | |
| 123..... | 1/2SS-3C-128 | Lock Nut ..... | ..... | 8 | |
| 124..... | 1SS-3C-129 | Chain Guide ..... | ..... | 1 | |
| 125..... | 1/2SS-3C-130 | Fuse | | 2A..... | 1 |
| 126..... | 1/2SS-3C-131 | Fuse Cover..... | ..... | 1 | |

Motor Assembly



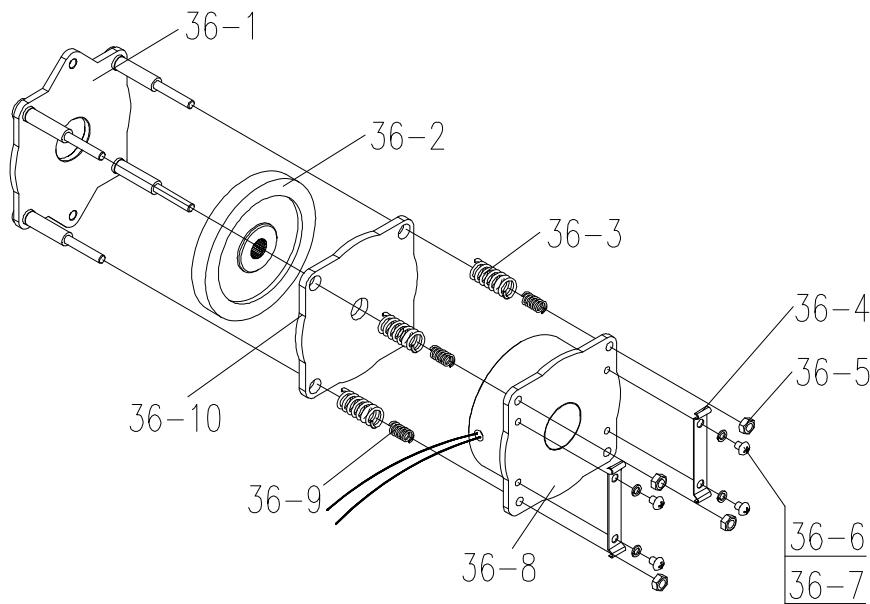
1/2-Ton Chain Hoists

| Index No. | Part No. | Description | Size | Qty |
|------------------|-----------------|---|-------------|------------|
| | 1/2SS-1C-002A | Motor Assembly, 1 Phase (#2-2 thru 2-5) | | 1 |
| | 1/2SS-3C-002A | Motor Assembly, 3 Phase (#2-2 thru 2-5) | | 1 |
| 2-1 | 1/2SS-3C-001 | Motor Stay Bolt | | 4 |
| 2-2 | 1/2SS-1C-002 | Motor Bracket for 1 Phase | | 1 |
| | 1/2SS-3C-002 | Motor Bracket for 3 Phase | | 1 |
| 2-3 | 1/2SS-1C-004A | Rotor Assembly for 1 Phase | | 1 |
| | 1/2SS-3C-004A | Rotor Assembly for 3 Phase, Single Speed | | 1 |
| 2-4 | 1/2SS-1C-006 | Motor Case Assembly for 1 Phase | | 1 |
| | 1/2SS-3C-006 | Motor Case Assembly for 3 Phase, Single Speed | | 1 |
| | 1/2SS-3C-006 | Motor Case Assembly for 3 Phase, Dual Speed | | 1 |
| 2-5 | 1/2SS-1C-007 | Motor Right-End Cover for 1 Phase | | 1 |
| | 1/2SS-3C-007 | Motor Right-End Cover for 3 Phase | | 1 |

1-Ton, 2-Ton, 3-Ton and 5-Ton Chain Hoists

| Index No. | Part No. | Description | Size | Qty |
|------------------|-----------------|---|-------------|------------|
| | 1SS-1C-002A | Motor Assembly, 1 Phase (#2-2 thru 2-5) | | 1 |
| | 1SS-3C-002A | Motor Assembly, 3 Phase (#2-2 thru 2-5) | | 1 |
| 2-1 | 1SS-3C-001 | Motor Stay Bolt | | 4 |
| 2-2 | 1SS-1C-002 | Motor Bracket for 1 Phase | | 1 |
| | 1SS-3C-002 | Motor Bracket for 3 Phase | | 1 |
| 2-3 | 1SS-1C-004A | Rotor Assembly for 1 Phase | | 1 |
| | 1SS-3C-004A | Rotor Assembly for 3 Phase, Single Speed | | 1 |
| 2-4 | 1SS-1C-006 | Motor Case Assembly for 1 Phase | | 1 |
| | 1SS-3C-006 | Motor Case Assembly for 3 Phase, Single Speed | | 1 |
| | 1SS-3C-006 | Motor Case Assembly for 3 Phase, Dual Speed | | 1 |
| 2-5 | 1SS-1C-007 | Motor Right-End Cover for 1 Phase | | 1 |
| | 1SS-3C-007 | Motor Right-End Cover for 3 Phase | | 1 |

Brake Assembly



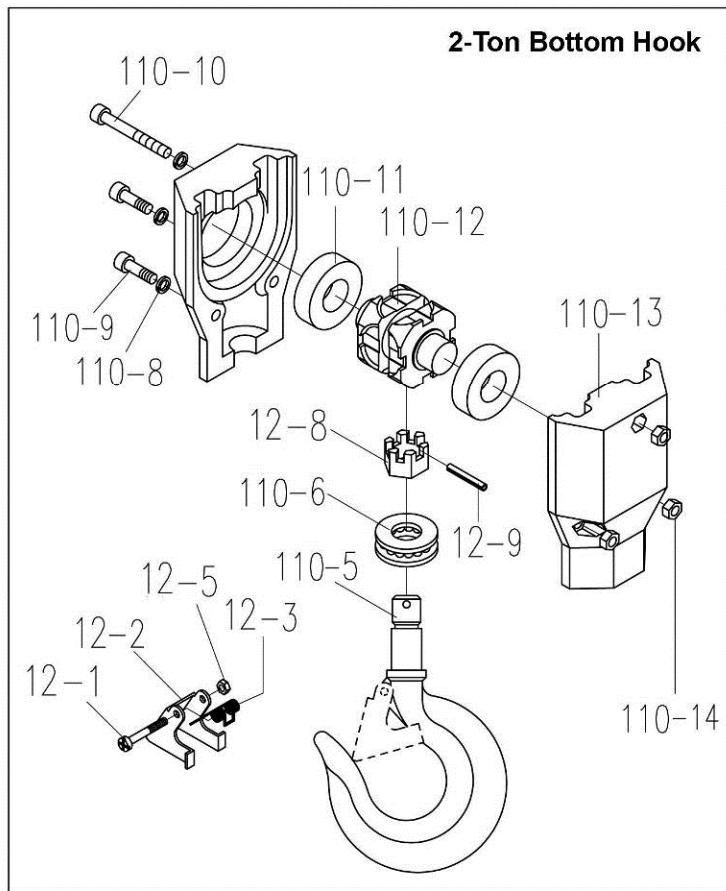
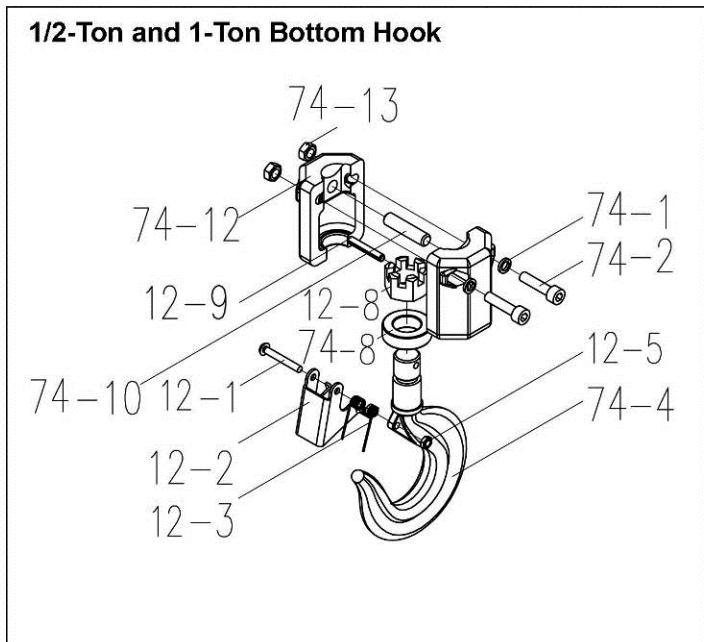
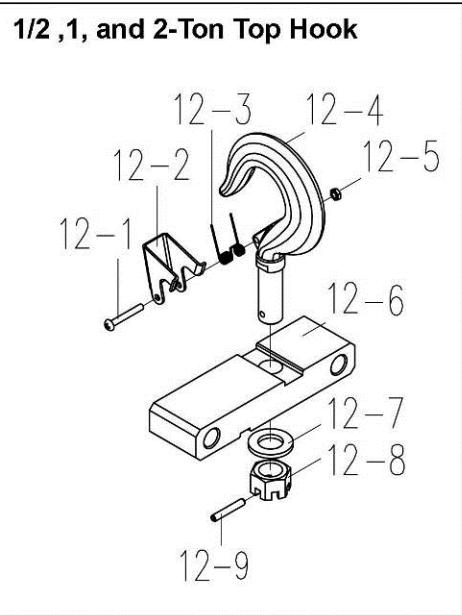
1/2-Ton Chain Hoists

| Index No. | Part No. | Description | Size | Qty |
|-----------|-----------------|--|------|-----|
| | 1/2SS-1C-041 | DC Brake Assembly for 1 Phase (#36-1 thru 36-10) | | 1 |
| | 1/2SS-3C-041 | DC Brake Assembly for 3 Phase (#36-1 thru 36-10) | | 1 |
| 36-1 | 1/2SS-3C-04101A | Brake Bracket | | 1 |
| 36-2 | 1/2SS-1C-04103 | Friction Pad for 1 Phase | | 1 |
| | 1/2SS-3C-04103 | Friction Pad for 3 Phase | | 1 |
| 36-3 | 1/2SS-1C-04104 | Brake Spring | | 4 |
| 36-4 | 1/2SS-3C-04105 | Locking Plate | | 2 |
| 36-5 | 1/2SS-3C-022 | Lock Nut | M6 | 4 |
| 36-6 | 1/2SS-3C-04107 | Pan Head Screw | M5x6 | 4 |
| 36-7 | 1/2SS-3C-04108 | Lock Washer | 5mm | 4 |
| 36-8 | 1/2SS-1C-04110A | Brake Coil for 1 Phase | | 1 |
| | 1/2SS-3C-04110A | Brake Coil for 3 Phase | | 1 |
| 36-9 | 1/2SS-3C-04111 | Brake Spring | | 4 |
| 36-10 | 1/2SS-3C-04112 | Brake Armature | | 1 |

1-Ton, 2-Ton, 3-Ton and 5-Ton Chain Hoists

| Index No. | Part No. | Description | Size | Qty |
|-----------|----------------|--|------|-----|
| | 1SS-1C-041 | DC Brake Assembly for 1 Phase (#36-1 thru 36-10) | | 1 |
| | 1SS-3C-041 | DC Brake Assembly for 3 Phase (#36-1 thru 36-10) | | 1 |
| 36-1 | 1SS-3C-04101A | Brake Bracket | | 1 |
| 36-2 | 1SS-1C-04103 | Friction Pad for 1 Phase | | 1 |
| | 1SS-3C-04103 | Friction Pad for 3 Phase | | 1 |
| 36-3 | 1SS-1C-04104 | Brake Spring | | 4 |
| 36-4 | 1SS-3C-04105 | Locking Plate | | 2 |
| 36-5 | 1SS-3C-022 | Lock Nut | M8 | 4 |
| 36-6 | 1/2SS-3C-04107 | Pan Head Screw | M5x6 | 4 |
| 36-7 | 1/2SS-3C-04108 | Lock Washer | 5mm | 4 |
| 36-8 | 1SS-1C-04110A | Brake Coil for 1 Phase | | 1 |
| | 1SS-3C-04110A | Brake Coil for 3 Phase | | 1 |
| 36-9 | 1SS-3C-04111 | Brake Spring | | 4 |
| 36-10 | 1SS-3C-04112 | Brake Armature | | 1 |

Hook Assemblies (1/2-Ton, 1-Ton and 2-Ton)



Parts List: Hook Assemblies (1/2-Ton only)

| Index No. | Part No. | Description | Size | Qty |
|------------------|----------------------|--|--------------|------------|
| 12..... | 1/2SS-3C-0117 | Top Hook Assembly for 1/2 Ton..... | | 1 |
| 12-1..... | TS-2284302 | Phillips Pan Head Machine Screw | M4x30 | 1 |
| 12-2..... | 1/2SS-3C-01702 | Hook Latch | | 1 |
| 12-3..... | 1/2SS-3C-01703 | Latch Spring | | 1 |
| 12-4..... | 1/2SS-3C-01704 | Top Hook | | 1 |
| 12-5..... | 1/2SS-3C-01705 | Lock Nut..... | M4 | 1 |
| 12-6..... | 1/2SS-3C-01706 | Connecting Bar..... | | 1 |
| 12-7..... | 1/2SS-3C-01707 | Plain Washer..... | 16mm | 1 |
| 12-8..... | 1/2SS-3C-01708 | Slotted Hex Nut | M16 | 1 |
| 12-9..... | 1/2SS-3C-01709 | Roll Pin..... | 4x28mm | 1 |
| 74..... | 1/2SS-3C-0179 | Bottom Hook Assembly for 1/2 Ton..... | | 1 |
| 12-0..... | 1/2SS-3C-01700 | Hook Latch Assembly (index # 12-1,12-2,12-3,12-5)..... | | 1 |
| 12-1..... | TS-2284302 | Phillips Pan Head Machine Screw | M4x30 | 1 |
| 12-2..... | 1/2SS-3C-01702 | Hook Latch | | 1 |
| 12-3..... | 1/2SS-3C-01703 | Latch Spring | | 1 |
| 12-5..... | 1/2SS-3C-01705 | Lock Nut..... | M4 | 1 |
| 12-8..... | 1/2SS-3C-01708 | Slotted Hex Nut | M16 | 1 |
| 12-9..... | 1/2SS-3C-01709 | Roll Pin..... | 4x28mm | 1 |
| 74-1..... | 1/2SS-3C-0112 | Lock Washer | 6mm | 2 |
| 74-2..... | 1/2SS-3C-066 | Socket Head Cap Screw..... | M6x25 | 2 |
| 74-4..... | 1/2SS-3C-07904 | Bottom Hook | | 1 |
| 74-8..... | 1/2SS-3C-07908 | Thrust Ball Bearing..... | 8103 | 1 |
| 74-10..... | 1/2SS-3C-078 | Bottom Hook Pin | | 1 |
| 74-12..... | 1/2SS-3C-07912 | Bottom Hook Housing..... | | 2 |
| 74-13..... | 1/2SS-3C-022 | Lock Nut..... | M6 | 2 |

Parts List: Hook Assemblies (1-Ton only)

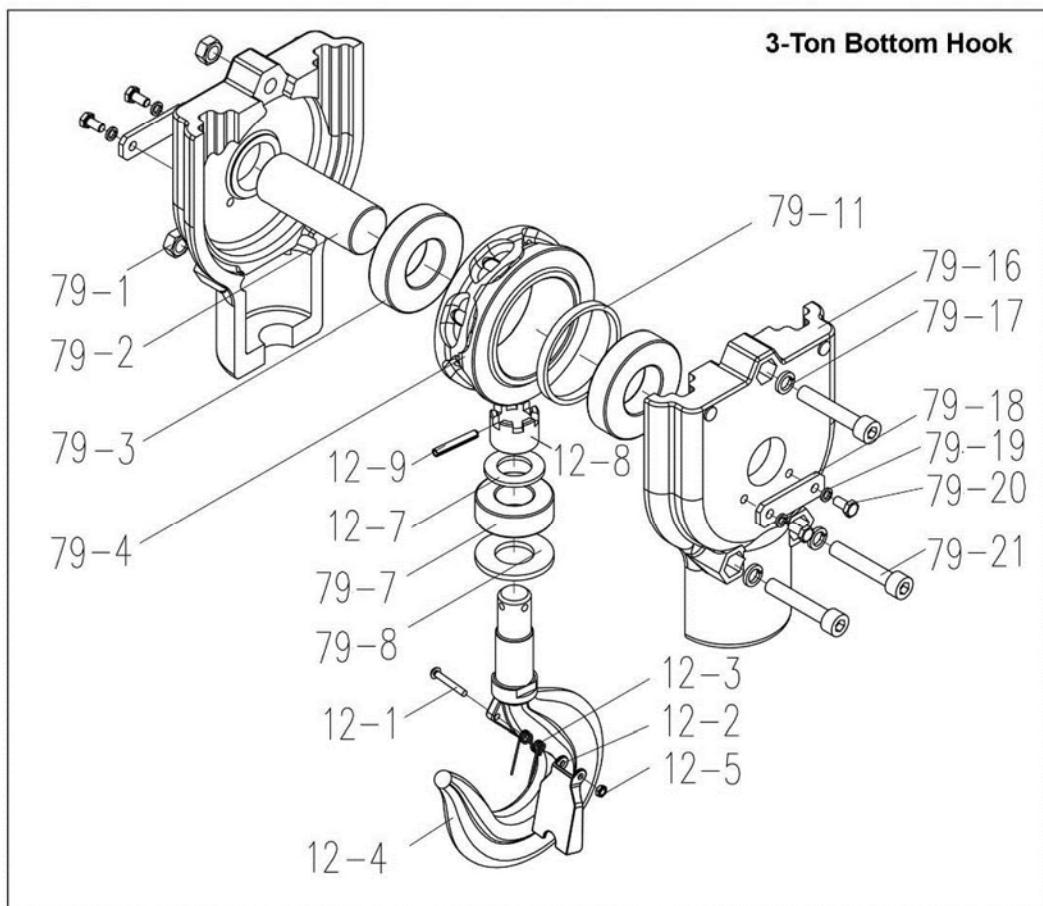
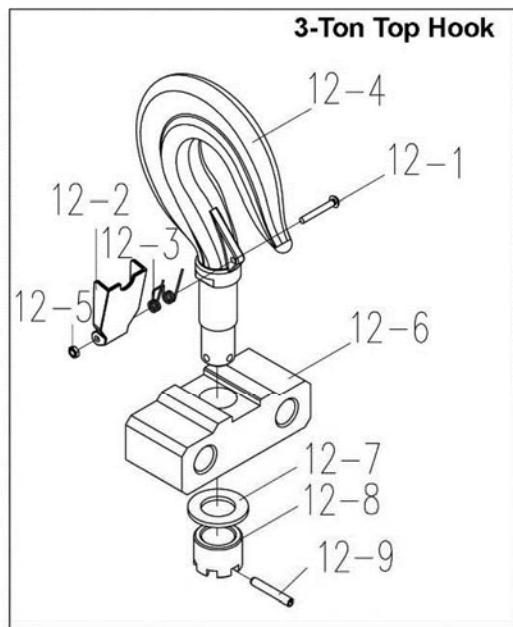
| Index No. | Part No. | Description | Size | Qty |
|------------------|----------------------|---|--------------|------------|
| 12..... | 1SS-3C-0117 | Top Hook Assembly for 1 Ton..... | | 1 |
| 12-1..... | TS-2284302 | Phillips Pan Head Machine Screw | M4x30 | 1 |
| 12-2..... | 1SS-3C-01702 | Hook Latch | | 1 |
| 12-3..... | 1SS-3C-01703 | Latch Spring | | 1 |
| 12-4..... | 1SS-3C-01704 | Top Hook | | 1 |
| 12-5..... | 1/2SS-3C-01705 | Lock Nut..... | M4 | 1 |
| 12-6..... | 1SS-3C-01706 | Connecting Bar..... | | 1 |
| 12-7..... | 1/2SS-3C-01707 | Plain Washer..... | 16mm | 1 |
| 12-8..... | 1/2SS-3C-01708 | Slotted Hex Nut | M16 | 1 |
| 12-9..... | 1/2SS-3C-01709 | Roll Pin..... | 4x28 | 1 |
| 74..... | 1SS-3C-0179 | Bottom Hook Assembly for 1 Ton..... | | 1 |
| 12-0..... | 1SS-3C-01700 | Hook Latch Assembly (index #12-1,12-2,12-3,12-5)..... | | 1 |
| 12-1..... | TS-2284302 | Phillips Pan Head Machine Screw | M4x30 | 1 |
| 12-2..... | 1SS-3C-01702 | Hook Latch | | 1 |
| 12-3..... | 1SS-3C-01703 | Latch Spring | | 1 |
| 12-5..... | 1/2SS-3C-01705 | Lock Nut..... | M4 | 1 |
| 12-8..... | 1/2SS-3C-01708 | Slotted Hex Nut | M16 | 1 |
| 12-9..... | 1/2SS-3C-01709 | Roll Pin..... | 4x28mm | 1 |
| 74-1..... | 1/2SS-3C-082 | Lock Washer | 8mm | 2 |
| 74-2..... | 1SS-3C-07902 | Socket Head Cap Screw..... | M8x35 | 2 |
| 74-4..... | 1SS-3C-07904 | Bottom Hook | | 1 |
| 74-8..... | 1SS-3C-07908 | Thrust Ball Bearing..... | 8203 | 1 |
| 74-10..... | 1SS-3C-078 | Bottom Hook Pin | | 1 |
| 74-12..... | 1SS-3C-07912 | Bottom Hook Housing..... | | 2 |
| 74-13..... | 1SS-3C-07913 | Lock Nut..... | M8 | 2 |

Parts List: Hook Assemblies (2-Ton only)

Exploded view on page 38.

| Index No. | Part No. | Description | Size | Qty |
|-------------|----------------------|---|--------------|-----|
| 12..... | 2SS-3C-0117..... | Top Hook Assembly for 2 Ton..... | | 1 |
| 12-1..... | 2SS-3C-01701 | Phillips Pan Head Machine Screw | M4x40 | 1 |
| 12-2..... | 2SS-3C-01702 | Hook Latch..... | | 1 |
| 12-3..... | 2SS-3C-01703 | Latch Spring | | 1 |
| 12-4..... | 2SS-3C-01704 | Top Hook | | 1 |
| 12-5..... | 1/2SS-3C-01705 | Lock Nut..... | M4..... | 1 |
| 12-6..... | 2SS-3C-01706 | Connecting Bar..... | | 1 |
| 12-7..... | 2SS-3C-01707 | Plain Washer..... | 20mm | 1 |
| 12-8..... | 2SS-3C-01708 | Slotted Hex Nut | M20 | 1 |
| 12-9..... | 2SS-3C-01709 | Roll Pin..... | 4x30mm | 1 |
| 110..... | 2SS-3C-1115..... | Bottom Hook Assembly for 2 Ton..... | | 1 |
| 12-0..... | 2SS-3C-01700 | Hook Latch Assembly (index #12-1,12-2,12-3,12-5)..... | | 1 |
| 12-1..... | 2SS-3C-01701 | Phillips Pan Head Machine Screw | M4x40 | 1 |
| 12-2..... | 2SS-3C-01702 | Hook Latch..... | | 1 |
| 12-3..... | 2SS-3C-01703 | Latch Spring | | 1 |
| 12-5..... | 1/2SS-3C-01705 | Lock Nut..... | M4..... | 1 |
| 12-8..... | 2SS-3C-01708 | Slotted Hex Nut | M20 | 1 |
| 12-9..... | 2SS-3C-01709 | Roll Pin..... | 4x30mm | 1 |
| 110-5..... | 2SS-3C-111505 | Bottom Hook | | 1 |
| 110-6..... | 2SS-3C-111506 | Thrust Ball Bearing | 8204 | 1 |
| 110-8..... | 1/2SS-3C-082 | Lock Washer | 8mm | 2 |
| 110-9..... | 2SS-3C-111509 | Socket Head Cap Screw | M8x25 | 2 |
| 110-10..... | 2SS-3C-111510 | Socket Head Cap Screw | M8x65 | 1 |
| 110-11..... | 2SS-3C-111511 | Ball Bearing | 6305ZZ | 2 |
| 110-12..... | 2SS-3C-111512 | Sheave | | 1 |
| 110-13..... | 2SS-3C-111513 | Bottom Hook Housing | | 2 |
| 110-14..... | 1SS-3C-07913 | Lock Nut | M8 | 2 |

Hook Assemblies (3-Ton only)

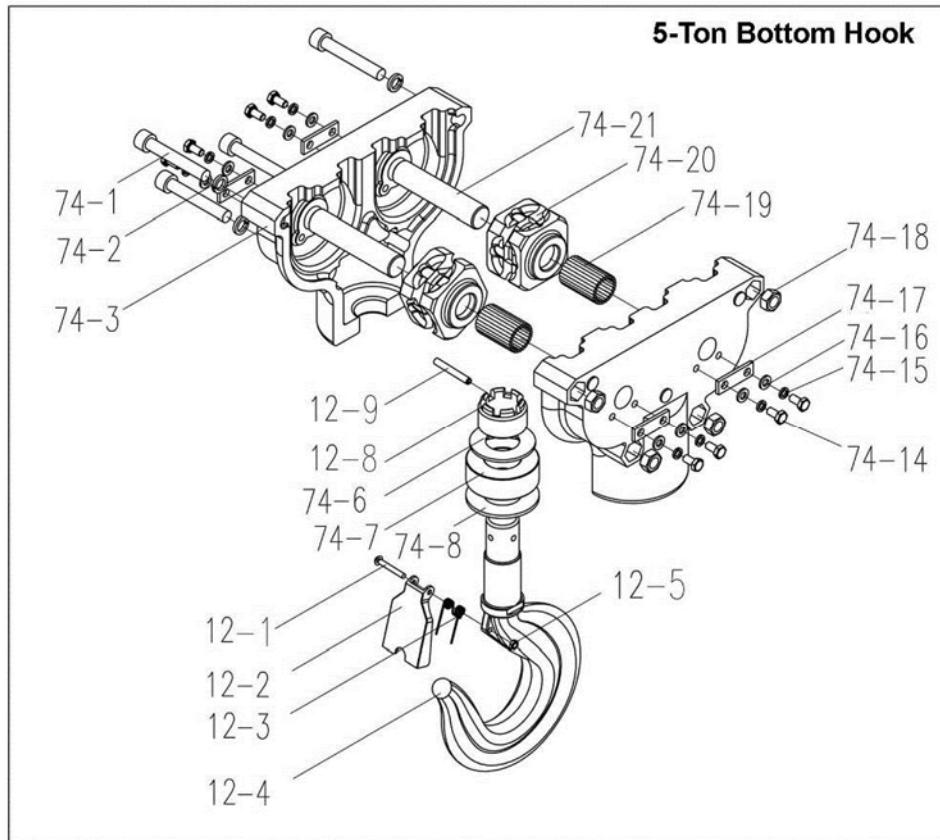
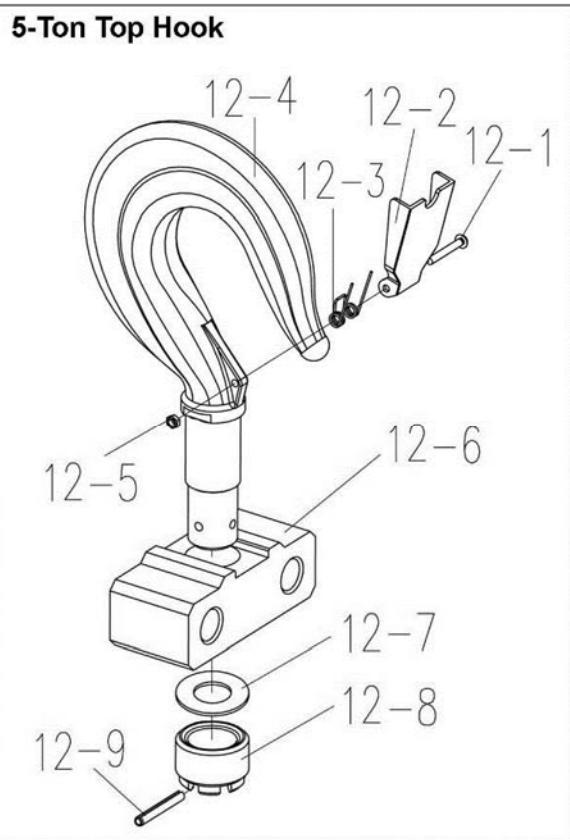


Parts List: Hook Assemblies (3-Ton only)

Exploded view on page 41.

| Index No. | Part No. | Description | Size | Qty |
|------------|----------------------|--|-----------------|-----|
| 12..... | 3SS-3C-017 | Top Hook Assembly for 3-Ton | | 1 |
| 12-1..... | TS-2284302 | Phillips Pan Head Machine Screw | M4x30 | 1 |
| 12-2..... | 3SS-3C-01702 | Hook Latch | | 1 |
| 12-3..... | 3SS-3C-01703 | Latch Spring | | 1 |
| 12-4..... | 3SS-3C-01704 | Top Hook | | 1 |
| 12-5..... | 1/2SS-3C-01705 | Lock Nut | M4 | 1 |
| 12-6..... | 3SS-3C-01706 | Connecting Bar | | 1 |
| 12-7..... | 3SS-3C-01707 | Collar | | 1 |
| 12-8..... | 3SS-3C-01708 | Hook Nut | | 1 |
| 12-9..... | 3SS-3C-01709 | Roll Pin | 5x35mm | 1 |
| 79..... | 3SS-3C-079 | Bottom Hook Assembly for 3-Ton | | 1 |
| 12-0..... | 3SS-3C-01700 | Hook Latch Assembly (index #12-1,12-2,12-3,12-5) | | 1 |
| 12-1..... | TS-2284302 | Phillips Pan Head Machine Screw | M4x30 | 1 |
| 12-2..... | 3SS-3C-01702 | Hook Latch | | 1 |
| 12-3..... | 3SS-3C-01703 | Latch Spring | | 1 |
| 12-5..... | 1/2SS-3C-01705 | Lock Nut | M4 | 1 |
| 12-7..... | 3SS-3C-01707 | Collar | | 1 |
| 12-8..... | 3SS-3C-01708 | Hook Nut | | 1 |
| 12-9..... | 3SS-3C-01709 | Roll Pin | 5x35mm | 1 |
| 79-1..... | 3SS-3C-07901 | Lock Nut | M10 | 3 |
| 79-2..... | 3SS-3C-07902 | Sheave Shaft | | 1 |
| 79-3..... | 3SS-3C-07903 | Ball Bearing | 180207kz1 | 2 |
| 79-4..... | 3SS-3C-07904 | Sheave | | 1 |
| 79-7..... | 3SS-3C-07907 | Thrust Ball Bearing | 8305 | 1 |
| 79-8..... | 3SS-3C-07908 | Collar | | 1 |
| 79-11..... | 3SS-3C-07911 | Collar | | 1 |
| 79-16..... | 3SS-3C-07916 | Bottom Hook Housing | | 2 |
| 79-17..... | 1/2SS-3C-009 | Lock Washer | 10mm | 3 |
| 79-18..... | 3SS-3C-087 | Sheave Shaft Block | | 2 |
| 79-19..... | 1/2SS-3C-012 | Lock Washer | 6mm | 4 |
| 79-20..... | 3SS-3C-07922 | Hex Bolt | M6x12 | 4 |
| 79-21..... | 3SS-3C-07921 | Socket Head Cap Screw | M10x55 | 3 |

Parts List: Hook Assemblies (5-Ton only)

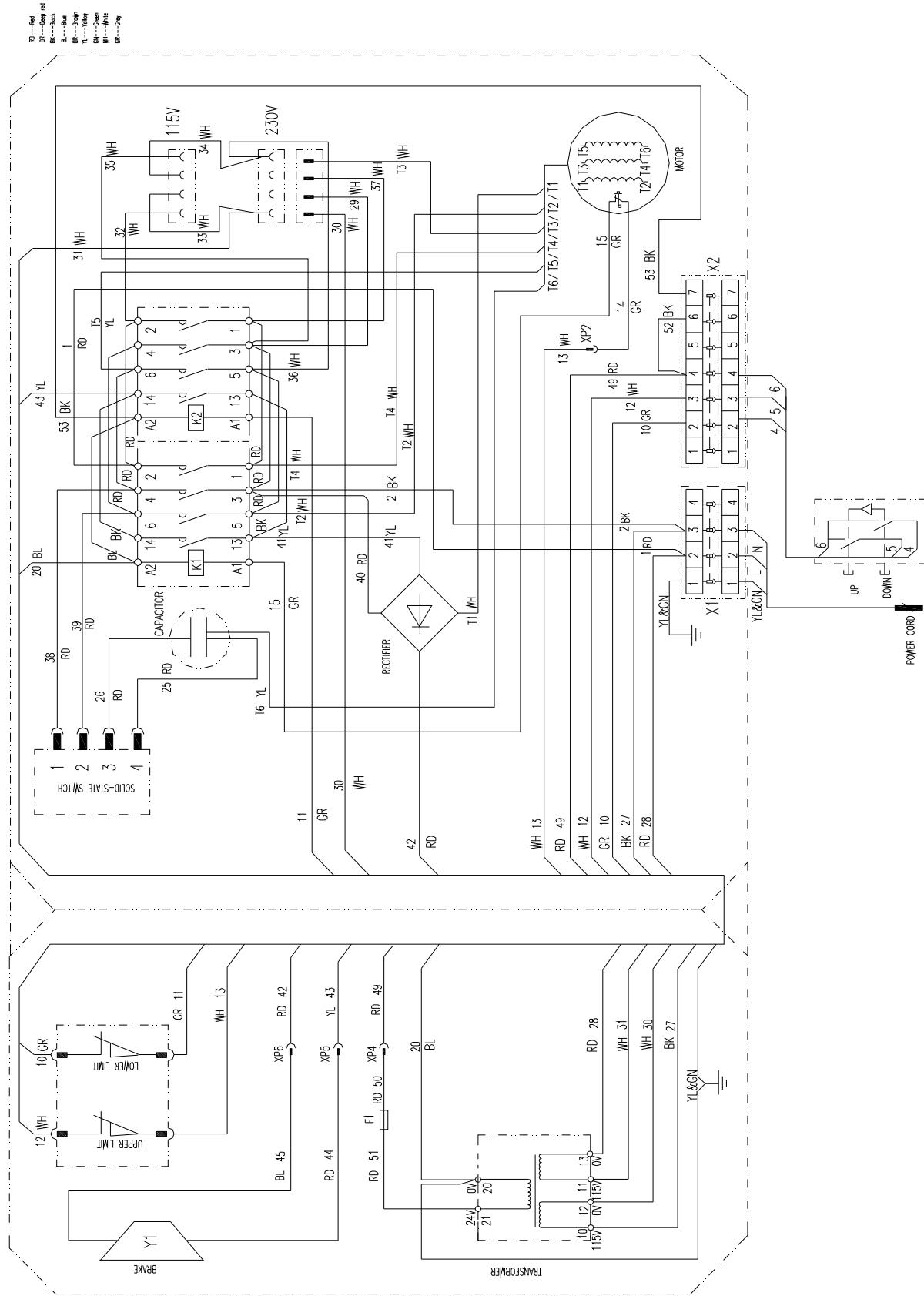


Parts List: Hook Assemblies (5-Ton only)

Exploded view on page 43.

| Index No. | Part No. | Description | Size | Qty |
|------------|----------------------|---|---------------|-----|
| 12..... | 5SS-3C-0117 | Top Hook Assembly for 5 Ton..... | | 1 |
| 12-1..... | TS-2284302 | Phillips Pan Head Machine Screw | M4x30 | 1 |
| 12-2..... | 5SS-3C-01702 | Hook Latch..... | | 1 |
| 12-3..... | 5SS-3C-01703 | Latch Spring | | 1 |
| 12-4..... | 5SS-3C-01704 | Top Hook | | 1 |
| 12-5..... | 5SS-3C-01705 | Lock Nut..... | M4..... | 1 |
| 12-6..... | 5SS-3C-01706 | Connecting Bar..... | | 1 |
| 12-7..... | 5SS-3C-01707 | Plain Washer..... | | 1 |
| 12-8..... | 5SS-3C-01708 | Hook Nut | | 1 |
| 12-9..... | 5SS-3C-01709 | Roll Pin..... | 5x40mm | 1 |
| 79..... | 5SS-3C-079 | Bottom Hook Assembly for 5 Ton..... | | 1 |
| 79-1..... | 5SS-3C-07901 | Socket Head Cap Screw..... | M10x65 | 4 |
| 79-2..... | 1/2SS-3C-009 | Lock Washer | 10mm | 4 |
| 79-3..... | 5SS-3C-07903 | Bottom Hook Housing..... | | 2 |
| 79-6..... | 5SS-3C-07906 | Plain Washer..... | | 1 |
| 79-7..... | 5SS-3C-07907 | Thrust Ball Bearing..... | 8306 | 1 |
| 79-8..... | 5SS-3C-07908 | Collar | | 1 |
| 12-0..... | 5SS-3C-01700 | Hook Latch Assembly (index #12-1,12-2,12-3,12-5)..... | | 1 |
| 12-1..... | TS-2284302 | Phillips Pan Head Machine Screw | M4x30 | 1 |
| 12-2..... | 5SS-3C-01702 | Hook Latch..... | | 1 |
| 12-3..... | 5SS-3C-01703 | Latch Spring | | 1 |
| 12-4..... | 5SS-3C-01704 | Top Hook | | 1 |
| 12-5..... | 1/2SS-3C-01705 | Lock Nut..... | M4..... | 1 |
| 12-8..... | 5SS-3C-01708 | Hook Nut | | 1 |
| 12-9..... | 5SS-3C-01709 | Roll Pin..... | 5x40mm | 1 |
| 79-14..... | 3SS-3C-07922 | Hex Bolt | M6x12 | 8 |
| 79-15..... | 1/2SS-3C-012 | Lock Washer | 6mm | 8 |
| 79-16..... | 1/2SS-3C-011 | Plain Washer | 6mm | 8 |
| 79-17..... | 3SS-3C-061 | Hinge Plate..... | | 4 |
| 79-18..... | 3SS-3C-07901 | Lock Nut..... | M10 | 4 |
| 79-19..... | 3SS-3C-083 | Needle..... | 3x39.8b | 48 |
| 79-20..... | 3SS-3C-088 | Sheave..... | | 2 |
| 79-21..... | 5SS-3C-07921 | Sheave Shaft..... | | 2 |

Electrical Connections: Single Phase Only



WIRING DIAGRAM FOR ELECTRIC HOISTS IN 1 PHASE WITH SINGLE SPEED

Electrical Connections: 3-Phase, Single Speed Only

