

Operator's Manual

EH-500 **Electric**Material Hoist





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IMPORTANT: Retain this manual for instruction on assembly and operation of hoist.

READ THIS MANUAL CAREFULLY BEFORE ATTEMPTIING TO ASSEMBLE OR OPERATE YOUR SAFETY HOIST. FAILURE TO COMPLY WITH INSTRUCTIONS MAY CAUSE THE HOIST TO MALFUNCTION AND, MAY RESULT IN PERSONAL INJURY.

LIST OF COMPONENTS

- 1. ONE (1) Power unit (hoist bolted on base) (includes a storage compartment)
- 2. ONE (1) Power cord with screw connection
- 3. ONE (1) Pendant with screw connection
- 4. ONE (1) EH Peak
- 5. ONE (1) Carriage trolley
- 6. ONE (1) Deck & flap assembly
- 7. TWO (2) Carriage support arms
- 8. ONE (1) Set of plywood carriers
- 9. ONE (1) 4 ft. track section with splice plates attached
- 10. ONE (1) 8 ft. track section with feet attached
- 11. TWO (2) 8 ft. track section with splice plates attached
- 12. ONE (1) Assembly hardware bag

GENERAL RECOMMENDATIONS AND ADVICE

EVERY TIME A SAFETY HOIST IS SET UP FOR OPERATION YOU MUST:

1. **NEVER** OPERATE HOIST IN WET WEATHER CONDITIONS!!!







2. THIS HOIST SHOULD **NEVER** BE USED TO TRANSPORT A PERSON FROM ONE ELEVATION TO ANOTHER!!

3. REMEMBER THAT THE HOIST'S TRACK IS **NOT** A LADDER! IF USED AS A LADDER, INJURY MAY OCCUR.

- 4. Check condition of the electric hoist before connecting the pendant and the power cords.
- 5. Inspect winch drum and cable assembly for obvious damage or misalignment. Inspect the winch drum to make sure that the cable is wound smoothly with no crossovers. If there are any crossovers, use the pendant to run the hoist in reverse and pull off enough cable to eliminate the crossovers. Then, with a leather glove, carefully use the pendant to wind the cable back, neatly, onto the drum to prevent cable kinking.
- 6. Inspect the pendant and power cables to make sure they are in good condition with no cuts or tears. Make sure no oil, mud, etc., is on the connector assemblies. This will cause the hoist to malfunction.
- 7. Test the brake system. Put one bundle of shingles (or about 70 to 100 lbs.) on the platform. Only lift it 2-3 ft. and stop it to make sure the brake system is working properly, and then lower the load. Once you are certain the brake system will hold, raise the load you are trying to lift up a few feet. Stop raising the load and wait a minute to make sure the load does not slip. This will verify that the brake system is working properly for the full load weight.

GENERAL SAFETY INSTRUCTIONS

The safety instructions and warnings in this section and throughout this manual must be read carefully before assembling or operating the hoist. These safety instructions and warnings are not substitutes for routine accident prevention measures, which must also be implemented to eliminate potential risks and hazards. Failure to obey these safety warnings may result in injury to you or others, or damage to the hoist or other property.

A. UNPACKING YOUR HOIST

When unpacking, carefully inspect for any damage that may have occurred during transit. <u>DO NOT ASSEMBLE OR USE THE HOIST IF ANY PART OR PARTS ARE DAMAGED!!</u> If parts are damaged, please email customer service (info@safetyhoistcompany.com) or call at 610-941-4333.

B. SAFETY LABELS

- Observe all safety labels and instructions attached to the various parts of the hoist.

C. PROPER PARTS

- For your safety, use only attachments and accessories approved by the manufacturer for use with the hoist. Using substitute parts will void the warranty.

D. SAFETY CHECK

Check assembled parts (splice plates, bolts, pulleys, hoist cable, etc.) for proper tightness and fit before using the hoist. During frequent periods of use, be certain that the equipment is in safe, working condition. Before each use, recheck for bolt tightness. Recheck every 4 hours of operation.

E. TRANSPORTING

To avoid damage, handle hoist components with care when transporting. Secure hoist to truck bed
with cord rope or bungee cord. Damaged parts MAY make the hoist unsafe to operate. Please note
that transporting an uncovered hoist in the rain may cause damage to its electric motor. Cover
electrical components with a plastic sheet and inspect prior to use. See page 5 - How To Assemble
Your Hoist.

F. BRACING YOUR HOIST

- Never place or operate the hoist on a slippery surface. Make sure the base section is properly leveled and secured at the base to prevent slippage or unexpected movement. Check that the hoist is braced against a building or solid surface at the correct angle as described herein.

G. HOUSEKEEPING

- Clear the area around the base of the hoist to avoid slipping, tripping, or falling against the hoist. Place the cords in a way that they will not become a tripping hazard.

H. SECURING YOUR HOIST

 Secure track to the roof with a rope. Tie the rope to a rung or the peak and then secure other end of rope to the building. Do not tie to the rail. This will cause the rope will interfere with the travel of the carriage.

SAFE OPERATION

HAZARD WARNING: DO NOT PLACE OR USE THIS MATERIAL HOIST IN AN AREA WHERE IT COULD COME IN CONTACT WITH OVERHEAD WIRES, ELECTRICAL WIRING CIRCUITS, OR ANY OTHER HAZARDOUS OBSTRUCTION.

NEVER OPERATE HOIST IN WET WEATHER CONDITIONS!!!







A. PROPER INSTRUCTIONS

DO NOT ALLOW ANYONE TO OPERATE THE HOIST WHO HAS NOT BEEN PROPERLY AND THOROUGHLY TRAINED IN ITS OPERATION AND USE. BEFORE OPERATING, THE INSTRUCTIONAL YOUTUBE VIDEO ON PAGE 9 SHOULD BE VIEWED, OR YOU CAN FIND THE INSTRUCTIONAL VIDEO ON OUR WEBSITE -- www.safetyhoistcompany.com

B. WARNING:

ONLY USE THE HOIST FOR LIFTING MATERIALS. **THE HOIST SHOULD NEVER BE USED TO TRANSPORT A PERSON FROM ONE ELEVATION TO ANOTHER!!!**

C. MAXIMUM CAPACITY

THE MAXIMUM CAPACITY OF THE EH-500 IS 500 LBS. DO NOT OVERLOAD!!

D. WARNING

- Keep hands, feet, other body parts, and clothing away from the track, as well as any moving or rotating parts, when operating the hoist.

E. MOLTEN SUBSTANCES

 Do NOT use the hoist to lift any hot or liquid substance, including buckets of hot asphalt, unless contents are in a closed/sealed container.

F. SUPERVISION

- ALWAYS unplug the electric hoist from the power supply when you leave its vicinity.

G. CLEANING YOUR POWER UNIT

- If you need to clean your power unit, NEVER use water. Use a damp cloth and wipe unit clean.

HOW TO ASSEMBLE YOUR HOIST

- 1. Unpack ALL parts of the hoist and lay them flat on the ground.
 - See page 1 for a list of included parts and materials. If any parts are missing, call (610) 941-4333.
- 2. Lay the base track section on the ground with the rung short-side facing down.
 - NOTE: That the rungs are not centered on the rail. SEE FIGURE 1.
- 3. Attach track sections using the splice plates on the INSIDE of the track section.
 - Attach them with the 3/8" x 3/4" carriage bolts and lock nuts that are attached to the splice plates. **SEE FIGURE 2.**
- 4. Lay the trolley on the ground & bolt the carriage support arms with 3/8-16 X 1.25 bolts and nuts.
- 5. Attach the deck & flap to the trolley & support arms with 3/8-16 X 1.25 bolts and nuts. **SEE FIGURE 3.**
- 6. Slide the carriage onto the track section from the **TOP** (side opposite of feet).
 - Do this with the flat surface of the carriage facing away from the base section.

SEE FIGURE 4.

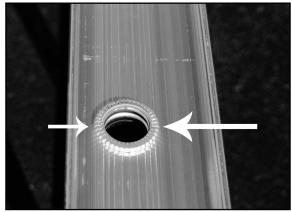


FIGURE 1



FIGURE 2

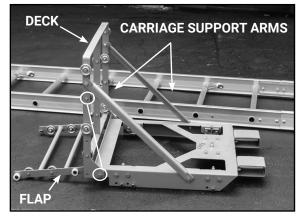


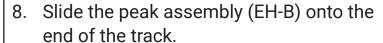
FIGURE 3



FIGURE 4

HOW TO ASSEMBLE YOUR HOIST Continued

- 7. Slide the carriage along the track to the base section so that the bumpers rest on the carriage stops. Make sure the carriage slides smoothly on the track.
 - If not, remove the carriage and reinstall, making sure carriage wheels roll on track flanges.



- Secure it with two (2) 3/8" x 3/4" carriage bolts and lock nuts that are supplied in the hardware bag. The square holes are off-set, the side with the yellow sticker should be facing up. SEE FIGURE 5.
- 9. Turn the hoist track with the carriage assembly attached on its side.
- 10. Remove power cord and pendant cord from the base storage compartment and attach them to the power unit with the quick connect fittings.
 - Attach strain relief hooks on cords to eyelits on hoist. **SEE FIGURE 6.**
- 11. Plug the power unit into a 110v 15-amp GFCI* electrical supply.
 - *Ground-Fault Circuit Interrupter
- 12. Unwind enough cable from the electric winch to go through the pulley at the peak and back down the other side of the track to the carriage by pressing the down button on the pendant. **SEE FIGURE 7**.
 - NOTICE: Winding and unwinding of the cable, using a gloved hand, MUST be done with tension. Not doing so will cause the cable to kink.

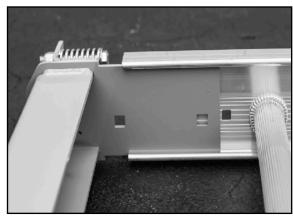


FIGURE 5

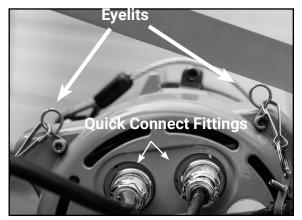


FIGURE 6



FIGURE 7

HOW TO ASSEMBLE YOUR HOIST Continued

- 13. Attach the thimble on the cable to the back of the carriage using the supplied clevis pin
 - SEE FIGURE 8.
- 14. You are now ready to lift the hoist into place.
 - WARNING: When setting up your hoist please take note of all overhead obstructions and/or electrical wires. Select a location that is free of traffic and pedestrians.
- 15. Lay the assembled hoist alngside the wall where it will be used.
- 16. Place hoist against the building at the correct angle.
 - **See chart on page 10** to determine the correct angle of incline.
- 17. Attach lifting handle to the power pack with the hardware included in hardware bag and wheel over to track section.
 - SEE FIGURE 9.
- 18. Move the black stop collars from the 5th rung to the 4th rung using a 3/16" allen wrench.
 - By placing these stop collars on both sides of the power pack on the 4th rung, it'll secure your hoist in place and eliminate movement. SEE FIGURE 10.
- 19. Attach power pack to the 4th rung from the bottom and pin it to the 3rd rung from the bottom of the track.
 - SEE FIGURE 10.
- 20. Using the pendant, press the UP button to take the slack out of the cable.
- 21. You are now ready to operate the hoist.

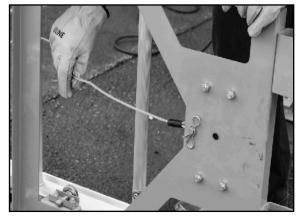


FIGURE 8



FIGURE 9

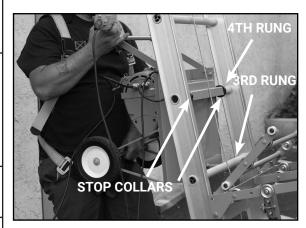


FIGURE 10

HOW TO OPERATE YOUR HOIST

THE OPERATOR OF THE HOIST MUST WEAR ALL THE NECESSARY PROTECTIVE GEAR WHICH INCLUDES FOOT, HAND, EYE, AND HEAD PROTECTION. KEEP HANDS AWAY FROM ALL MOVING PARTS AT ALL TIMES. SEE PAGE 3 FOR GENERAL SAFETY INSTRUCTIONS.

- 1. The operator should make a TRIAL RUN at this time by pressing the UP button on the pendant to raise the carriage. To bring carriage back down, press the DOWN button.
 - Test should be done while the carriage assembly is loaded with 70-100 lbs. and should be run in accordance with these instructions to check for proper operation.

SEE FIGURE 11 & 12.

- 2. During the TRIAL RUN, be sure to inspect the winch drum assembly.
 - Cable on winch drum must be smooth and in neat coils with no cable crossing. It should also be tight on the winch drum. If cable has crossovers or is loose, using the pendant, run the winch in reverse and pull off enough cable to fix crossovers or tighten loose cable. Rewind cable on winch drum neatly and tightly, with coils laying side-by-side.
- Run one last TRIAL with a full load. Make sure the cable is tight and is properly attached to the carriage. Press the UP button on the pendant.
 - Do this 2 or 3 times.
- 4. If at any time the brake does **NOT** hold the carriage in place, call (610) 941-4333.
- 5. DO NOT EXCEED THE HOIST'S
 WEIGHT LIMIT! THE WEIGHT
 CAPACITY OF THE EH-500 IS 500
 LBS!!!

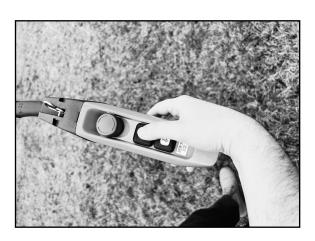


FIGURE 11



FIGURE 12

HOW TO OPERATE YOUR HOIST Continued

- 6. Press the UP (U) button on the pendant to start the winch and launch carriage into its upwards travel.
 - The button must be pressed the entire time it takes to reach the unload position at the peak. When the carriage unloading flap rotates into the unload position, release the UP button to stop the winch. SEE FIGURE 13.
- 7. To bring the carriage back down, simply press and hold the DOWN (D) button on the pendant continuously until the carriage reaches the bottom.
- 8. If you choose to use the hoist to lower material to the ground, load material onto the carriage & hold the DOWN (D) button continuously until the carriage reaches the bottom.
 - Make sure all material is secure before descent.
- 9. After job is complete, disconnect the pendant and the power cords and store them in the storage compartment provided on the power unit.
 - This is also a convenient place to store your manual. **SEE FIGURE 14.**



FIGURE 13



FIGURE 14



We recommend that you view the instructional videos on our YouTube page for your Safety Hoist™ model.

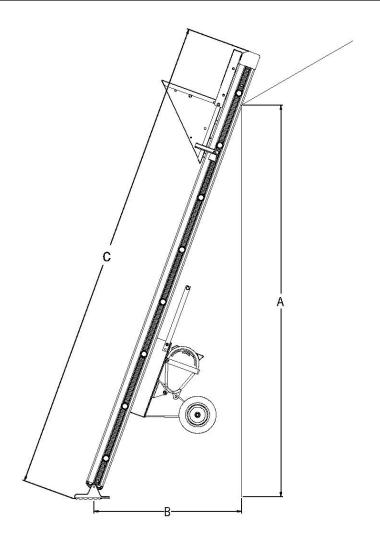
Scan the QR Code to go directly to our YouTube channel!



@Safety Hoist Company

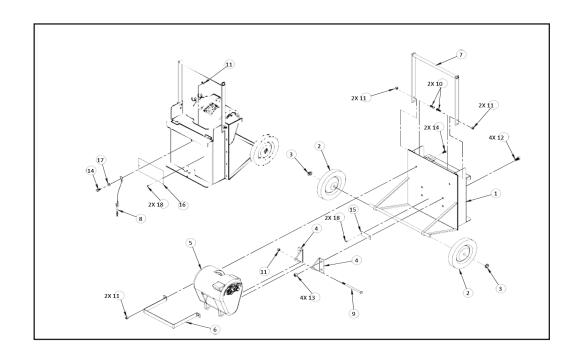
HOIST HEIGHT CHART

HEIGHT "A" TO BEARING POINT	MAXIMUM HORIZONTAL DISTANCE "B"	HOIST LENGTH "C"
10 FT.	2 FT. 6 IN.	12 FT.
14 FT.	3 FT. 6 IN.	16 FT.
18 FT.	4 FT. 6 IN.	20 FT.
22 FT.	5 FT. 6 IN.	24 FT.
26 FT.	6 FT. 6 IN.	28 FT.
30 FT.	7 FT. 6 IN.	32 FT.
34 FT.	8 FT. 6 IN.	36 FT.
38 FT.	9 FT. 6 IN.	40 FT.



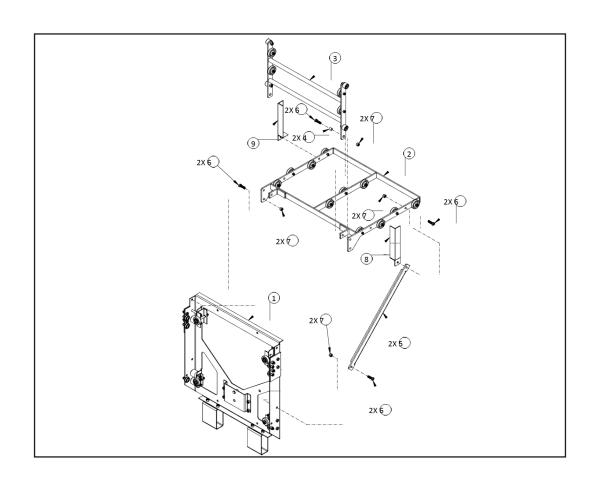
BASE ASSEMBLY - NG-D-E100

ITEM NO	PART NUMBER	DESCRIPTION	QTY.
1	NG-D-E101	BASE WELDMENT	1
2	HD-D403	WHEEL	2
3	.625 CAP NUT	.625 CAP NUT	2
4	NG-D-E106	BRACKET, HOIST	2
5	ELECTRIC HOIST	ELECTRIC HOIST	1
6	NG-D-E121	BRACKET, HOIST SUPPORT	1
7	NG-D-E102	HANDLE	1
8	NG-D-E125	ANCHOR PIN LANYARD	1
9	.375-16 X 6.0 LG HHCS	3/8-16 X 6.0 LG HHCS	1
10	.375-16 X 1.0 LG BHCS	3/8-16 X 1.0 LG BHCS	4
11	.375-16 LN	3/8-16 LOCKNUT	8
12	0.5-13 1.0 LG HHCS	1/2-13 X 1.0 LG HHCS	4
13	0.5-13 LN	1/2-13 LOCKNUT	4
14	.375-16 X .75 LG HHCS	3/8-16 X .75 LG HHCS	3
15	EH-D136	SERIAL NO. PLATE	1
16	LABEL-WARNING	WARNING LABEL	1
17	.375 FW	3/8 FLAT WASHER	1
18	POP RIVET 0.125 X 0.187 LG	POP RIVET 0.125 X 0.3125 LG	4



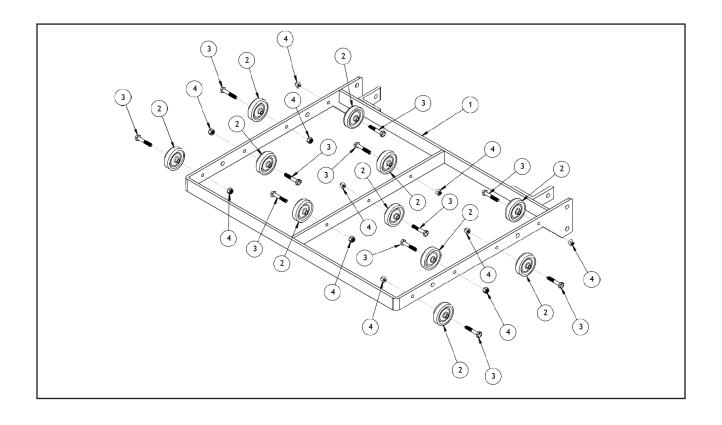
CARRIAGE ASSEMBLY COMPLETE - EH500-C

ITEM NO	PART NUMBER	DESCRIPTION	QTY
1	EH500-C054	CARRIAGE TROLLEY	1
2	HD-C053	CARRAIGE DECK	1
3	HD-C052	CARRAIGE FLAP	1
4	HD-C049	BEARING .375 ID X .375 LG	2
5	HD-C040	CARRIAGE SUPPORT ARM	2
6	.375-16 X 1.25 LG HHCS	.375-16 X 1.25 LG HHCS	8
7	.375-16 LN	3/8-16 LOCKNUT	8
8	HD-400-PLYWOOD ASSY L	PLYWOOD CARRIER LH	1
9	HD-400-PLYWOOD ASSY R	PLYWOOD CARRIER RH	1



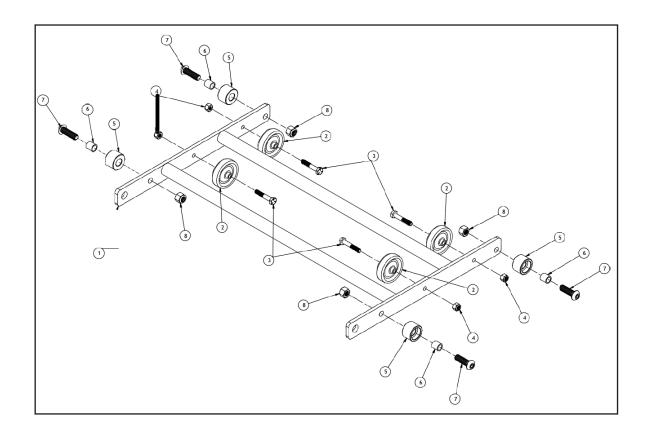
CARRIAGE DECK - HD-C053

ITEM NO	PART NUMBER	DESCRIPTION	QTY
1	HD-C031-WELD-ASSY	CARRAIGE DECK WELDMENT ASSY	1
2	SKATE	CARRIAGE SKATE WHEEL	11
3	0.25-20 X 1.5 LG HHCS	1/4-20 X 1.5 LG HHCS	11
4	.25-20 LN	1/4-20 LOCKNUT	11

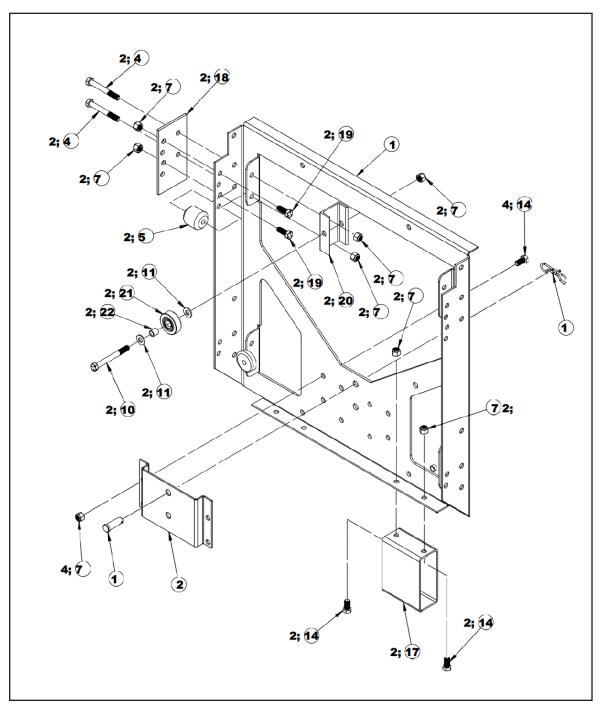


CARRIAGE FLAP- HD-C052

ITEM NO	PART NUMBER	DESCRIPTION	QTY
1	HD-C032-WELDMENT	FLAP WELDMENT	1
2	SKATE	CARRAIGE SKATE WHEEL	4
3	0.25-20 X 1.5 LG HHCS	1/4-20 LOCKNUT	4
4	.25-20 LN	1/4-20 LOCKNUT	4
5	HD-C035	FLAP WHEEL 1.125 PLASTIC	4
6	HD-C050	BUSHING	4
7	.375-16 X 1.25 LG BHCS	3/8-16 X 1.25 LG BHCS	4
8	.375-16 LN	3/8-16 LOCKNUT	4

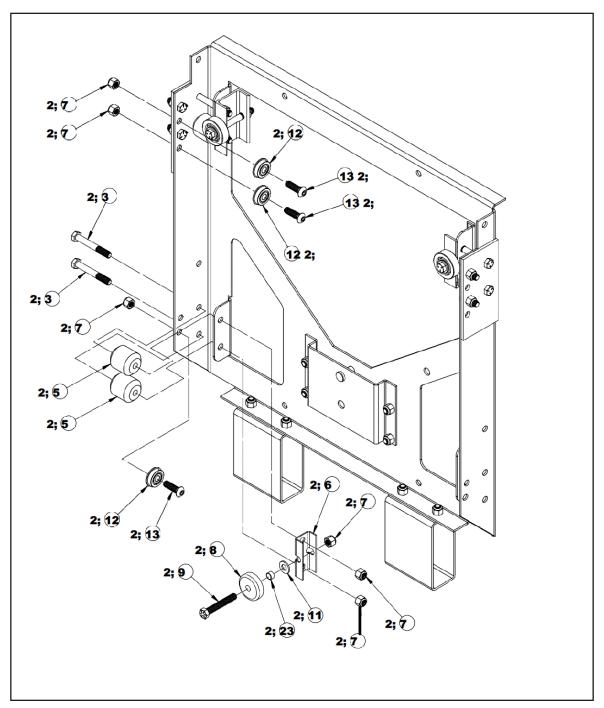


CARRIAGE TROLLEY- EH500-CO54 (page 1 of 2)



SEE PAGE 16 FOR CARRIAGE TROLLEY PART NUMBERS & DESCRIPTIONS

CARRIAGE TROLLEY- EH500-CO54 (page 2 of 2)



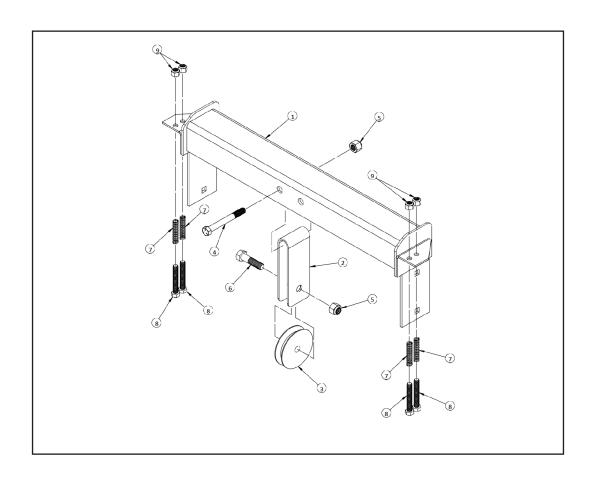
SEE NEXT PAGE FOR CARRIAGE TROLLEY PART NUMBERS & DESCRIPTIONS

CARRIAGE TROLLEY - HD-C054 Continued

ITEM NO	PART NUMBER	DESCRIPTION	QTY
1	HD-C030	TROLLEY FRAME	1
2	HD-C033	CARRIAGE PULLEY BRACKET	1
3	.375-16 X 2.75 LG HHCS	3/8-16 X 2 3/4 LG HHCS	4
4	.375-16 X 3.00 LG HHCS	3/8-16 X 3.00 LG HHCS	4
5	HD-C036	CARRIAGE WHEEL 2.0 PLASTIC	6
6	HD-C043	GUIDE WHEEL BRACKET	2
7	.375-16 LN	3/8-16 LOCKNUT	30
8	HD-C045	TROLLEY GUIDE WHEEL	2
9	.375-16 X 2.5 LG HHCS	3/8-16 X 2 1/2 LG HHCS	2
10	.375-16 X 3.5 LG HHCS	3/8-16 X 3 1/2 LG HHCS	2
11	.375 FW	3/8 FLAT WASHER	6
12	HD-C044	SMALL TROLLEY WHEEL	6
13	.375-16 X 1.25 LG BHCS	3/8-16 X 1 1/4 LG BHCS	6
14	.375-16 X .75 LG HHCS	3/8-16 X 3/4 LG HHCS	8
15	HD-C039	CLEVIS PIN	1
16	HD-C038	COTTER PIN, BOW TIE	1
17	HD-C041	BUMPER	2
18	EB-401	SIDE PLATE	2
19	.375-16 X 1.0 LG HHCS	3/8-16 X 1.0 LG HHCS	4
20	HD-C043-U	GUIDE WHEEL TRUCK	2
21	HD-C045-U	GUIDE WHEEL UPPER	2
22	HD-C050	BUSHING	2
23	HD-C051	GUIDE WHEEL BUSHING	2
<u> </u>		1	Į.

CARRIAGE ASSEMBLY COMPLETE - EH500-C

ITEM NO	PART NUMBER	DESCRIPTION	QTY
1	HD-B010	PEAK WELDMENT	1
2	HD-B011	PULLEY SUPPORT	1
3	HD-B012	PULLEY	1
4	0.5-13 X 3.75 LG HHCS	1/2-13 X 3.75 LG HHCS	1
5	0.5-13 LN	1/2-13 LOCKNUT	2
6	0.5-13 X 2.0 LG HHCS	1/2-13 X 2.0 LG HHCS	1
7	HD-B014	COMPRESSION SPRING	4
8	.375-16 X 2.5 LG HHCS	3/8-16 X 2.5 LG HHCS	4
9	.375-16 LN	3/8-16 LOCKNUT	4



EH-500 CAPACITY MATERIAL HOIST & ACCESSORIES

PART # DESCRIPTION

EH-500 Material hoist, 28' complete

MH8GH Gravel hopper

MH9SB Support brace

CH-RAMP Unloading ramp

SB-ASSY Flat Panel/Solar Panel Cradle

CH-A002 8' Track section w/splice plates (17.25" x 3.0" x 96")

EH-500 MATERIAL HOIST AVAILABLE PARTS LIST

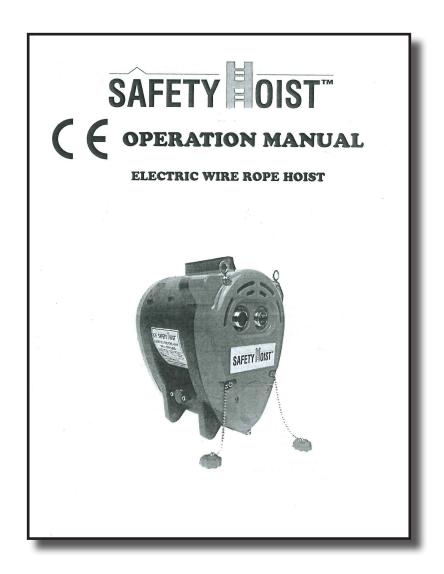
PART # DESCRIPTION

HD-A006 HD-A002	8 ft. Base track section
HD-A002 HD-A003	8 ft. Track section w/ splice plates (23.75" x 3.0" x 96")
	4 ft. Track section w/ splice plates (23.75" x 3.0" x 48")
HD-A007	(2) Splice plates w/ nuts & bolts
EH-500-B	Peak assembly
EH-500-C	Carriage assembly complete
HD-C052	Carriage flap w/ skate wheels
NG-D-E-100-PK	Power weldment
HD-D403-PK	Wheels
NG-D-E-121-PK	Top bracket
NG-D-E106-PK	Anchor
HD-D434-PK	Handle
E-HOIST	Motor
HD-400SB	Support brace
HD-RAMP	Unloading ramp
SB-ASSY-HD	Flat panel/solar panel cradle
HD-C035-PK	Flap nylon wheels (4 per pack)
HD-C036-PK	Carriage nylon wheels (6 per pack)
HD-C037-PK	Skate wheels (set of 11)
HD-C045-PK	Carriage stabilizer bracket w/ wheel (4 per pack)
HD-C044-PK	Metal trolley wheels (6 per pack)

MOTOR RECOMMENDATIONS

SEE SEPARATE OPERATION MANUAL

- ELECTRIC WIRE ROPE HOIST - ACCOMPANYING THIS MANUAL.



SAFETY HOIST COMPANY - LIMITED WARRANTY

REPLACES ALL DATED OR UNDATED LIMITED WARRANTIES DATED BEFORE JUNE 25, 2017.

Safety Hoist Company will, at its option, repair or replace any part or parts of the Safety Hoist material hoist that are defective in material or workmanship, with the exclusion of the motor/engine, which maintain a separate warranty provided by the manufacturer of the motor/engine. The terms of the warranty of the motor/engine are provided.

The limited warranty on all parts except the motor/engine is in effect for 1 year from the date of purchase.

Safety Hoist Company reserves the right to inspect the equipment for misuse, abuse, or failure to maintain the equipment properly.

Safety Hoist Company will make reasonable efforts to repair or replace defective equipment in a timely manner, but assumes no liability or expenses incurred for the time lost as a result of the repair or replacement.

The defective unit or parts should be returned to the dealer where the unit was purchased, or contact Safety Hoist Company at 610-941-4333.

There is no other express warranty implied. Warranties including those of merchantability and fitness for a particular purpose are limited to one year from purpose or to the extent permitted by law. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you. This is the exclusive remedy and liability for incidental and consequential damages under any and all warranties are excluded to the extent permitted by law. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights . You may also have other rights which vary from state to state.

Safety Hoist Company shall be relieved of its performance of the duties under this warranty if any damage has been caused to the product as a result of misuse, abuse, failure to maintain the equipment, or Act of God.