INTRODUCTION

WHY THIS SAFETY UPGRADE IS NECESSARY:

This safety upgrade is to hold the carriage in place in the event of a cable or brake failure. This mechanism if engaged will activate stopping wedges to hold the carriage in place and avoid what is commonly called "carriage-plunge", which is a failure that could damage your hoist or injure the operator.



Carriage-plunge without Emergency Stop

Carriage-plunge with Emergency Stop

WHY THIS SAFETY UPGRADE WORKS:

Your new emergency stop braking system has been designed to prevent the uncontrolled descent of the carriage due to a cable or brake failure. It is EXTREMELY IMPORTANT to follow all of the instructions and warnings in this manual before operation. Failure to follow all of these instructions and warnings could result in equipment damage or personal bodily injury.

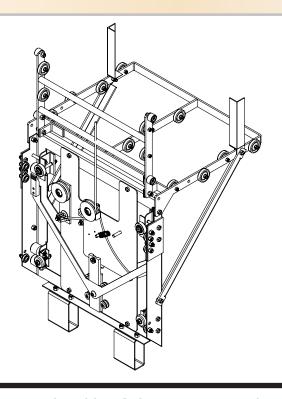
DO'S AND DON'TS

It is EXTREMELY IMPORTANT to fully understand what to do and what not to do with your new emergency stop braking system. Please read all of these items before operating your Safety Hoist with your new emergency stop.

DO	DON'T	
Bring the carriage down slowly	Bring the carriage down rapidly	
Remove the brake lockout pin before operation	Leave the brake lockout pin in during operation	
Test the system before each use	Operate the system without testing it	
Take material up	Lower material	
Make sure the cable is correctly wound on the winch drum with no crossovers, flat spots, or fraying	Allow any cable crossing	
Operate as stated in this manual	Modify any part in any way, this will result in a void of warranty and could result in injury or OSHA fine	
Inspect all parts of the emergency stop before each use to ensure proper maintenance and upkeep	Use prior to inspection each time of use	
Remove the brake lockout pin before storage	Store the unit with the brake lockout pin installed	

SAFETY BOIST ...

ES-500 ASSEMBLY INSTRUCTIONS & PARTS LIST/ASSEMBLY DRAWINGS



ASSEMBLY INSTRUCTIONS

Your new emergency stop braking system has been designed to prevent the uncontrolled descent of the carriage due to a cable or brake failure. It is EXTREMELY IMPORTANT to follow all of the instructions and warnings in this manual. Failure to do so could result in equipment damage or personal bodily injury.

- I.) Remove all parts from the box and inspect for any damage **See Figure I**
- 2.) If there is any damage, please contact Safety Hoist Company at 877-99-HOIST
- 3.) If there is no damage, assemble existing carriage flap and deck to the new trolley using the hardware provided
- 4.) Install the brake lockout pin by pulling the cam plate down so the holes on the cam plate match the holes on the backing plate. If you do not install the brake lockout pin, it will be very difficult to install carriage onto track See Figure 2
- 5.) Install the carriage assembly on top of the track and ensure that the carriage assembly runs smoothly on the track, run the carriage assembly along the track until it reaches the base track section
- 6.) String the cable. Draw out enough cable to run up the backside of the track, through the peak, and back down to the carriage on the front side (the carriage side)
- 7.) Single string instructions Run cable between the carriage guide wheel (item # I I a) and "cable keeper A", and attach to anchor point

- See Figure 3

Please refer to ES-500 assembly drawing on page 21.

PLEASE SEE STEP "7a" ON THE NEXT

PAGE TO VIEW THE INSTRUCTIONS TO

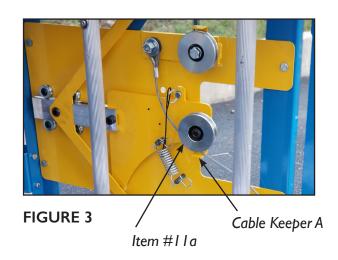
DOUBLE STRING THE ES-500



FIGURE I



FIGURE 2



ASSEMBLY INSTRUCTIONS

Your new emergency stop braking system has been designed to prevent the uncontrolled descent of the carriage due to a cable or brake failure. It is EXTREMELY IMPORTANT to follow all of the instructions and warnings in this manual. Failure to do so could result in equipment damage or personal bodily injury.

7a.) Double string instructions - Run cable between item # I I a and cable keeper A and around item # I I b and cable keeper B, than back up to the snap hook on pulley - See Figure 4

Please refer to ES-500 assembly drawing on page 22.

- 8.) **WARNING! VERY IMPORTANT!**Remove the brake lockout pin that was installed in STEP 3
- 9.) At this point you are ready to raise the ladder to its desired position for operation
- 10.) Once in position, go behind/underneath the ladder and while wearing protective gloves, pull the cable down, causing the carriage to rise. Then quickly release the cable to stimulate failure. If the carriage stops in place you are ready to attach the power unit. If it does not, please review step 3 9. If it still does not work, call us at 877-99-HOIST **See Figure 5**
- II.) Attach the power unit at this time by hooking it onto the fifth rung from the bottom and pin in place with eyebolt
- 12.) Before operating, make sure that the cable slack is evenly distributed accross the winch drum by applying tension to the cable with a gloved hand. At this point you are now ready to operate your hoist

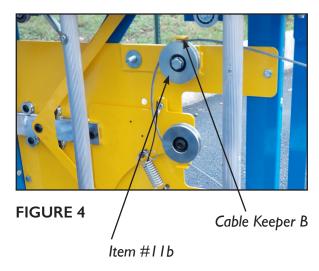




FIGURE 5

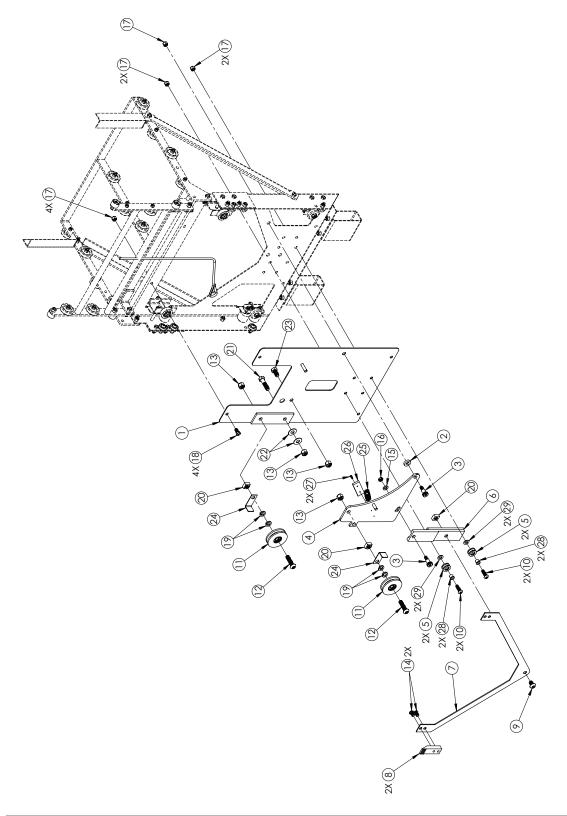
DISASSEMBLY AND STORAGE

- 1.) Remove power unit and draw out enough cable to lower hoist to the ground
- 2.) Lower hoist
- 3.) SINGLE STRING: Remove cable from anchor point
 - 3a.) DOUBLE STRING: Remove cable from snaphook at peak
- 4.) SINGLE STRING: Remove cable from carriage guide wheel (item #IIa) and cable keeper A
 - **4a.) DOUBLE STRING:** Remove cable from item #11b and cable keeper B, and then item #11a and cable keeper A
- 5.) Pull cable thru peak and rewind cable on cable drum
- 6.) Reinstall the brake lockout pin to allow the carriage to be removed from the track
- 7.) Remove carriage
- 8.) Remove brake lockout pin (by leaving lockout pin installed, it puts strain on the spring)

PLEASE TURN THE PAGE SIDEWAYS TO VIEW

ES-500 PARTS LIST AND ASSEMBLY DRAWINGS

FIGURE 1: PLEASE REFER TO PARTS LIST ON PAGE 16



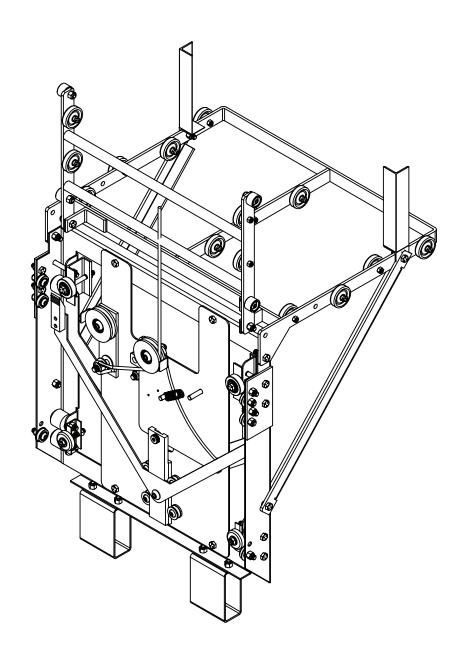
ES-500 PARTS LIST AND ASSEMBLY DRAWINGS

FIGURE I PARTS LIST:

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	EB-301	PLATE, EMERGENCY BRAKE	1
2	0.5 ID X 1.0 OD X .25 THK BEARING	1/2 ID X 1.0 OD X 1/4 THK BEARING	1
3	.375-16 X .50 X .75 LG SHSS	3/8-16 X 1/2 X 3/4 LG SHSS	2
4	EB-308	CAM PLATE	1
5	MP-C040	ES WHEEL	4
6	EB-304	SLIDE	1
7	EB-302	SUPPORT ARM, BRAKE WEDGE	1
8	EB-303	BRAKE WEDGE	2
9	0.5-13 X .75 LG BHCS	1/2-13 X 3/4 LG BHCS	1
10	.375-16 X 1.25 LG BHCS	3/8-16 X 1 1/4 LG BHCS	4
11	CW101	WHEEL, CARRIAGE GUIDE	2
12	0.5-13 X 2.0 LG BHCS	1/2-13 X 2.0 LG BHCS	2
13	0.5-13 LN	1/2-13 LOCKNUT	4
14	.375-16 X .625 LG BHCS	3/8-16 X .625 LG BHCS	4
15	0.5 ID X .75 OD X .125 THK WASHER	1/2 ID X 3/4 OD X 1/8 THK WASHER	1
16	.375-16 THIN LN	3/8-16 THIN LN	1
17	.375-16 LN	3/8-16 LOCKNUT	9
18	.375-16 X .75 LG HHCS	3/8-16 X 3/4 LG HHCS	4
19	0.5 LW	WASHER, LOCK, 0.5	4
20	0.5-13 SN	NUT, SQUARE, 0.5-13	3
21	0.5-13 X 2.0 LG HHCS	1/2-13 X 2.0 LG HHCS	1
22	0.5 FW	1/2 FW	2
23	0.5-13 1.0 LG HHCS	1/2-13 X 1.0 LG HHCS	1
24	EB-109	CABLE GUARD	2
25	HD-D431	BRAKE SPRING	1
26	EB-310	WEAR PAD	1
27	6-32 X.5 LG FHCS	6-32 X .5 LG FHCA	2
28	.375 ID X .50 OD FLANGED BRG.	FLANGED SLEEVE BEARING	4
29	.375 FW	3/8 FLAT WASHER	4

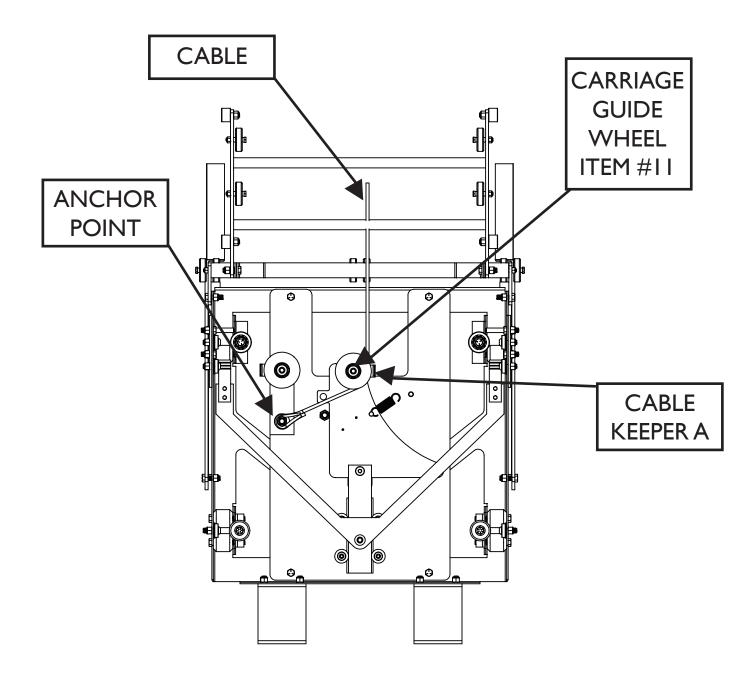
ES-500 PARTS LIST AND ASSEMBLY DRAWINGS

FIGURE 2: FULL ASSEMBLY



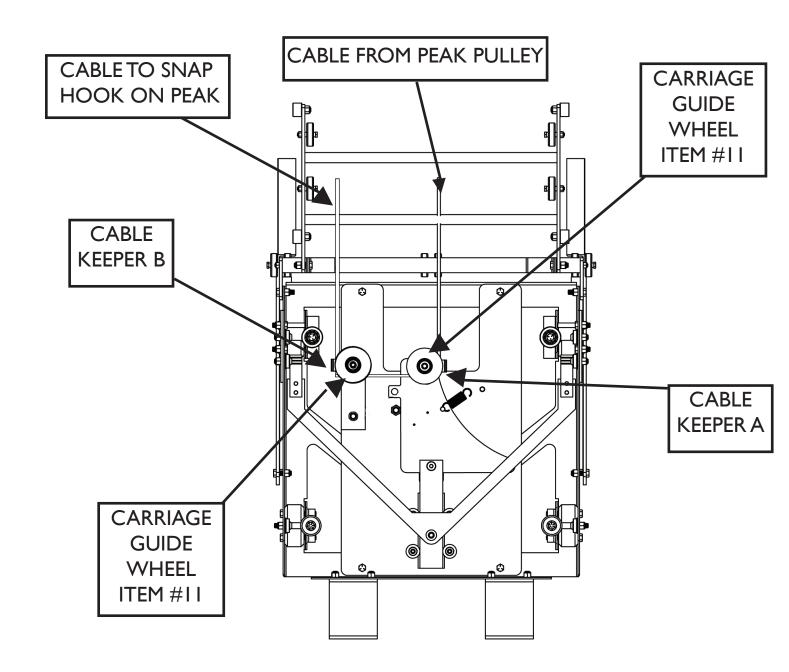
ES-500 PARTS LIST AND ASSEMBLY DRAWINGS

FIGURE 3: CABLE ROUTING - SINGLE STRING



PARTS LIST AND ASSEMBLY DRAWINGS

FIGURE 4: CABLE ROUTING - DOUBLE STRING



SAFETY HOIST COMPANY LIMITED WARRANTY

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

Safety Hoist Company will at is 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 on the previous page.

The limited warranty on all parts except the motor/engine is in effect for I year form 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 877-994-6478.

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 and 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.