



LIFT TABLE LADDER 29401004

Mfg. for: _____

Model #: _____

Serial #: _____

Ship Date: _____



PARTS & SERVICE MANUAL

California Proposition



65 Warning



WARNING: This product contains chemicals known to the State of California to cause cancer and/or reproductive harm, and birth defects or other reproductive harm.

ADVERTENCIA: Este producto contiene productos químicos reconocidos por el estado de California que provocan cáncer o daños reproductivo, defectos de nacimiento u otros daños reproductivos.

For more information: www.P65Warnings.ca.gov

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GENERAL INFORMATION

Read and understand this manual before installation, use, and maintenance for your lift. Please be sure that no individual is allowed to use this lift unless they have been fully trained and familiarized with the operating instructions of this manual. Also, ensure that at least one person on site is familiar with the maintenance section of this manual and is responsible for performing the defined tasks. If you have any questions regarding operation, service, or the contents of this manual, please contact your dealer or BHS Technical Support **1.877.BHS.4YOU (1.877.247.4968)** or visit **tech.bhs1.com**.

Lift Table Ladder (LTL) vertically positions materials at comfortable heights for improved ergonomics and productivity. The Lift Table Ladder is designed to reduce physical strain, fatigue, and prevent injury by eliminating heavy lifting, bending, and reaching. Please consult a dealer or sales representative for application specific needs.



f Read and understand all instructions and warnings before using or servicing this equipment.

f Keep these instructions for future reference.

- This unit shall only be used indoors in an industrial setting on a hard, nonslip, and level floor without irregularities including but not limited to holes, gouges, cracks, drains or obstacles comprised of concrete or other suitable industrial material.
- Perform system and safety checks before operating.
- Failure to follow these instructions and warnings may result in property damage, personal injury or death.

WORK AREA

- Keep work area clean and well lit. Cluttered work areas and poor lighting can lead to accidents.
- Clean up/contain any fluid spills immediately to prevent slips or falls.
- Be aware of potential hazards when performing any service or maintenance to the unit.

SERVICE & MAINTENANCE

Service personnel shall wear Personal Protective Equipment (PPE) appropriate for the task being performed.

LOCKOUT/TAGOUT

Lockout/tagout the LTL unit if damaged or not functioning properly. Lockout/tagout and de-energize all systems prior to performing any maintenance or service to unit(s).

LEAD-ACID BATTERIES-EXPLOSION HAZARD



DO NOT allow open flames or sparks of any kind near a battery. Highly explosive gas is generated when charging a battery that can remain in battery cells for extended periods of time after charging is complete.

- Always wear appropriate PPE including rubber apron, gloves, boots and full face shield when performing service or maintenance to any lead-acid batteries.

NOTICE

This unit is not approved for outdoor use. The Lift Table Ladder is not weather resistant and must be stationed indoors at all times.

For custom applications, additions, and modifications, please contact your dealer or BHS Technical Support.



Any instance in which the lift table ladder is impacted by a fork truck, transport vehicle, or other equipment, the unit should be inspected by the appropriate personnel to ensure structural integrity. For replacement parts, please contact your dealer or BHS Technical Support.



Only one person may occupy and operate this unit at a time.

The following instructions will guide you through the basic steps necessary to properly and safely operate this unit. Before using the Lift Table Ladder, the operator should:

- Read and understand this manual and the operating instructions.
- Be thoroughly trained on the use and safety of this unit.
- Inspect for proper operating conditions and safety devices.
- Check for and eliminate any obstructions in the travel path.
- Inspect all electrical connections to ensure they are complete and operational.

WARNING

KEEP HANDS, ARMS, FEET, LEGS, HAIR, CLOTHING, AND JEWELRY OUT OF THE CARRIAGE TRAVEL PATH WHILE THE UNIT IS IN OPERATION.

OPERATING THE LIFT TABLE LADDER:

Modifications, alterations, and additions to this unit shall not be made without prior written consent from the manufacturer. Customers are responsible for the proper maintenance and upkeep of the unit upon receipt of the product.

NOTICE

NEVER EXCEED THE RATED CAPACITY. This unit is rated for a maximum of 450 LBS. Exceeding this limit can result in damage to the unit, shorten the product's lifespan, and void the unit's warranty.

NOTICE

NEVER ALLOW OPERATION IF THE LOAD IS NOT CENTERED. Exceeding these limits can lead to binding, mechanical failure, or damage to the product.

NOTICE

ALWAYS ALLOW THE LIFT TABLE LADDER TO COME TO A COMPLETE STOP PRIOR TO HANDLING. Failure to allow the LTL to complete its travel can result in damage to the product.

DANGER

ALWAYS KEEP LTL TRAVEL PATH CLEAR. The LTL travel path must always be clear of objects and personnel during operation. Failure to do so may lead to serious personal injury or death.

DANGER

ALWAYS ENGAGE FLOOR LOCK PRIOR TO OPERATION OF THE LTL. Failure to engage the floor lock may lead to serious personal injury or death.

ALWAYS MAINTAIN A 3-POINT CONTACT (TWO HANDS AND A FOOT, OR TWO FEET AND A HAND) WHEN CLIMBING/ DESCENDING THE LIFT TABLE LADDER.



CONTROLS:

1. The lift is equipped standard with a push-button pendant control.
2. The **UP** button **RAISES** the platform. The lift will only raise when the **UP** button is pressed.
3. The **DOWN** button **LOWERS** the platform. The lift will only lower when the **DOWN** button is pressed.
4. To stop the lift at any time, release the button from the pendant controller, deactivating the switch.

OPERATIONAL TEST:

After the initial installation has been completed, or any service to the unit has been performed, an operational test should be conducted to ensure proper operation of the LTL unit.

WARNING

KEEP HANDS, ARMS, FEET, LEGS, HAIR, AND JEWELRY OUT OF THE ROLLER TRACK AND TRAVEL PATH WHILE THE UNIT IS OPERATING.

- **Carefully watch the lift as it raises to ensure proper function of all mechanical and electrical components.**



NOTICE

- **DO NOT** operate the lift if any damage or unusual noise is observed.
- Lockout/Tagout the unit and immediately notify your supervisor or maintenance personnel if the unit is found to be operating abnormally.

The following instructions will guide you through the basic steps necessary to properly and safely operate this lift. Before using this lift, the operator should:

- Read and understand this manual and the operating instructions.
- Be thoroughly trained on the use and safety of this lift.
- Inspect for proper operating conditions and safety devices.
- Check for and eliminate any obstructions in the travel path.
- Inspect all electrical and mechanical connections to ensure they are complete and operational.

RAISING THE PLATFORM:

1. Raise the platform by pressing the **UP** button on the pendant.
2. When the desired platform height is reached, release the **UP** button, deactivating the switch.

LOADING THE PLATFORM:

The load capacity rating is also stated on capacity labels throughout the unit. Refer to Section “CHASSIS” of this manual. Modifications and additions to this lift shall not be made without prior written consent from the manufacturer.

DANGER

- **NEVER EXCEED THE LOAD CAPACITY RATING.** Overloading the lift will result in severe personal injury or death, cause structural damage to the lift, shorten the life of the lift, and void the unit's warranty.

NOTICE

- **ALWAYS BALANCE & CENTER THE LOAD.** Balanced and centered loads will promote the longest life of the unit and ensure even wear on all moving parts.
- **ALWAYS SECURE THE LOAD.** A balanced and secure load is the safest means of lifting the load.

LOWERING THE PLATFORM:

1. Lower the platform by pressing the **DOWN** button on the pendant.
2. When the desired platform height is reached, release the **DOWN** button, deactivating the switch.

WARNING

ALWAYS transport the load to and from the lift platform using an approved and certified method.

3. Center, balance, stabilize, and secure the load. See Figure 1 on B.3. Secure the load when necessary using an appropriately rated tie-down.
4. With the load properly positioned and secured, the platform can be raised to the desired height.

WARNING

NEVER operate the lift if you cannot see the load or nearby personnel. Keep clear while the lift is in operation and be alert to personnel in the area.

UNLOADING THE PLATFORM:

1. Lower the platform to the desired height for unloading.

**WARNING**

NEVER operate the lift if you cannot see the load or nearby personnel. **Keep Clear** while the lift is in operation and be alert to personnel in the area.

2. Remove the load from the lift platform.

**WARNING**

ALWAYS transport the load to and from the lift platform using an approved and certified method.

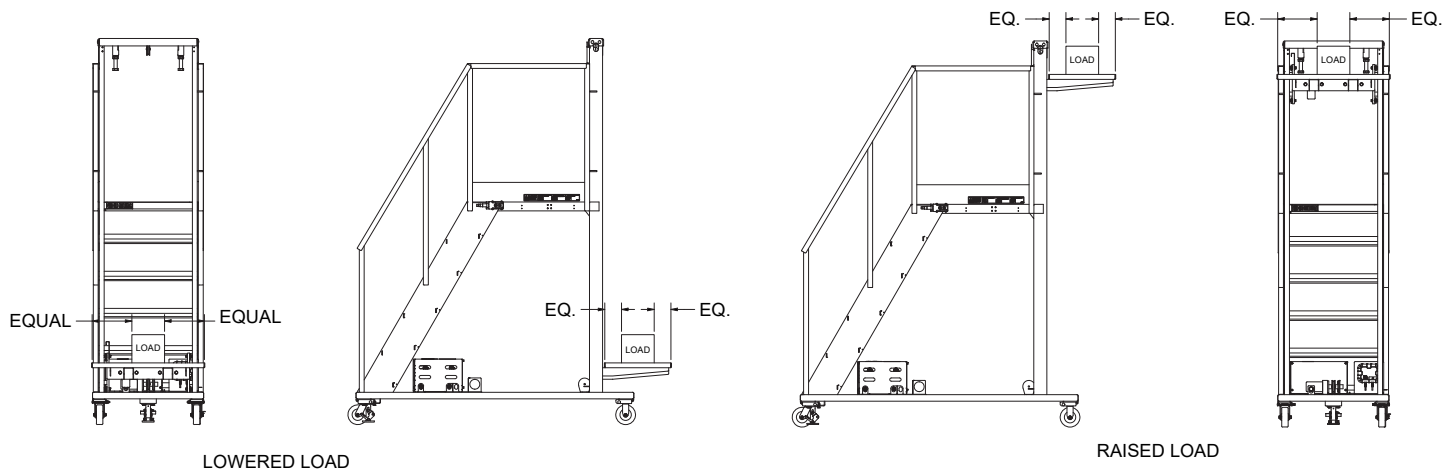


FIGURE 1



OPERATOR'S DAILY CHECKLIST

To be performed daily by the unit operator at the start of each shift. Check all items applicable to the unit.

MODEL: _____ SERIAL NUMBER: _____ WEEK OF: _____

BUILDING: _____ SHIFT: _____



If the LTL is found to be in need of repair or in any way unsafe, or if during operation the LTL becomes unsafe in any way, the matter shall be reported immediately to the designated authority and the LTL shall not be operated until restored to a safe operating condition.

Do not make repairs or adjustments to the LTL unless specifically authorized to do so.

√ = Okay X = Needs repair/adjustment (give details below)

	MON	TUE	WED	THU	FRI	SAT	SUN	COMMENTS
DAMAGE/WEAR: Check for bent, dented, cracked, broken, worn, or loose parts.								
DRIVE SHAFTS: Check for bent, deformed, or worn shafts.								
CARRIAGE/PLATFORM TRAVEL PATH: Ensure that the carriage/platform path is free of obstacles and obstructions.								
CONTROLS: Check controls operate smoothly, all functions operate properly, no unusual noise.								
ELECTRICAL WIRE: Check for loose or damaged connections, exposed wires, all cables routed properly & securely.								
SAFETY LABELS: Ensure all warning labels are in place and legible.								
WORK STATION: Check that the area is organized and free from any hazards.								
MISCELLANEOUS: Note any other abnormalities or damage.								
OPERATOR'S INITIALS:								

The following are the basic practices necessary to properly and safely service and maintain this unit. It is recommended that a routine maintenance program be enforced to prolong the life of the unit and prevent costly repairs or downtime. Before servicing this unit, the operator should:

- Read and understand this manual and the service and maintenance instructions.
- Understand mechanical devices and their associated electrical circuits.
- Be thoroughly trained on the use and safety of this unit.

SAFE SERVICE PRACTICES:

DANGER

Failure to follow proper safety procedures will result in serious personal injury or death.

- Inspect the lift in regular intervals: daily, weekly, monthly, and yearly. See pages B.4, C.1, C.2 & C.3 of this manual.
- **DO NOT** ignore a unit in need of repair. A unit in disrepair can be a severe hazard to persons and/or property when left unattended.
- Use only BHS approved replacement parts.
- Observe and identify all potential hazards prior to servicing the unit.
- **NEVER** apply a load to the platform unless the base frame is continuously supported and properly anchored.

DANGER

NEVER WORK UNDER THE LIFT WHILE POWER IS CONNECTED. Failure to follow this safety practice will result in serious personal injury or death.



SERVICE & MAINTENANCE

RECOMMENDED LIFT TABLE LADDER LUBRICATION INTERVALS

	# OF PLACES	INTERVALS
--	-------------	-----------

- | | | |
|--|---|--------|
| 1. Lubricate cable assembly using a light penetrating oil. | 1 | Varies |
|--|---|--------|

These recommendations are based on average use in a typical warehouse environment and may need adjustment based on individual circumstances. Dusty and/or extreme hot/cold environments may require more frequent lubrication.

MOUNTED BEARINGS

The mounted bearings on the lower and upper roller shafts are sealed and shielded ball bearings.

NOTICE

DO NOT lubricate these bearings.
DO NOT clean this unit with a high pressure wash.
Wipe the unit down with a clean, dry cloth when cleaning is required.



LIFT TABLE LADDER PLANNED MAINTENANCE INSPECTION REPORT

Check Codes	
X	= O.K.
A	= Adjusted
S	= Serviced
R	= Needs Repair
U	= Urgent

CUSTOMER _____

DEALER _____

Model #	Serial Number	P.O. Number / Ref Number	Servicing Technician	Date

1. VISUAL INSPECTION

CODE

COMMENTS

- | | | | | | | |
|--|---|---|---|---|---|-------|
| • Overall condition / physical damage | X | A | S | R | U | _____ |
| • Inspect for damaged or missing parts | X | A | S | R | U | _____ |
| • General work environment | X | A | S | R | U | _____ |

2. BASE FRAME

- | | | | | | | |
|---|---|---|---|---|---|-------|
| • Structural frame member condition | X | A | S | R | U | _____ |
| • Inspect roller tracks for damage / wear | X | A | S | R | U | _____ |
| • Inspect upright stops for damage / wear | X | A | S | R | U | _____ |
| • Check function and condition of maintenance devices | X | A | S | R | U | _____ |
| • Inspect lower hinge plates for damage / wear | X | A | S | R | U | _____ |

3. CARRIAGE/PLATFORM

- | | | | | | | |
|--|---|---|---|---|---|-------|
| • Structural member condition | X | A | S | R | U | _____ |
| • Platform surface condition | X | A | S | R | U | _____ |
| • Inspect upper hinge plates for damage / wear | X | A | S | R | U | _____ |
| • Inspect roller guides for damage / wear | X | A | S | R | U | _____ |

4. ELECTRICAL

- | | | | | | | |
|--|---|---|---|---|---|-------|
| • Control box enclosure connections complete, grounded | X | A | S | R | U | _____ |
| • Cable connections to electric motor | X | A | S | R | U | _____ |
| • Cable connections to junction box | X | A | S | R | U | _____ |
| • Wiring to solenoids | X | A | S | R | U | _____ |
| • No exposed wiring | X | A | S | R | U | _____ |
| • Inspect operating controls connection and function | X | A | S | R | U | _____ |
| • Wiring to junction box and bulkhead fittings | X | A | S | R | U | _____ |
| • Wiring to limit switch (if applicable) | X | A | S | R | U | _____ |

5. OPTIONAL ATTACHMENTS (If applicable)

- Refer to "Instructions and Inspections" insert provided with manual or contact BHS technical support.

6. WIPE DOWN UNIT (As Required)

X	A	S	R	U	_____
---	---	---	---	---	-------

7. LABELS & DECALS

- | | | | | | | |
|-------------------------------------|---|---|---|---|---|-------|
| • Placement of safety labels | X | A | S | R | U | _____ |
| • Ensure function labels are intact | X | A | S | R | U | _____ |

GENERAL COMMENTS

WARNING: ANY MATERIAL HANDLING EQUIPMENT FOUND TO BE IN NEED OF REPAIR SHOULD BE TAGGED OUT OF SERVICE UNTIL ALL NECESSARY REPAIRS HAVE BEEN MADE BY AN AUTHORIZED SERVICE TECHNICIAN.

Refer to service manual for details on inspection, lubrication, and adjustments.
For more information on the LTL visit www.bhs1.com

Specifications subject to change without notice.

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ITEM	BHS PART NUMBER	DESCRIPTION	REF. KIT NO.	NOTES	NO REQ.
1	00196216	LABEL-HAZARD-CHAIN ENTANGLEMENT			2
2	00196416	LABEL-LMPS SAFETY			1
3	00196424	LABEL-DANGER-"NO RIDERS"			3
4	00196429	LABEL-DANGER-"MAX OCCUPANCY..."			1
5	00196758	LABEL-CAPACITY-450 LB			1



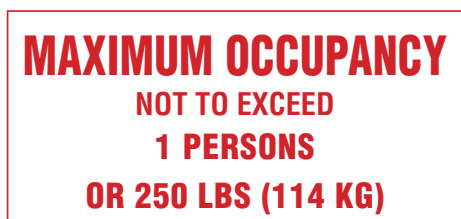
1



2



3



00196429

4



00196758

5

Operators should be familiar with the meaning of the following labels and placards found on the LTL to ensure proper and safe operation.



Read and understand instruction manual prior to use



Consult manual for technical procedure.



Lockout before servicing.



Chain Entanglement

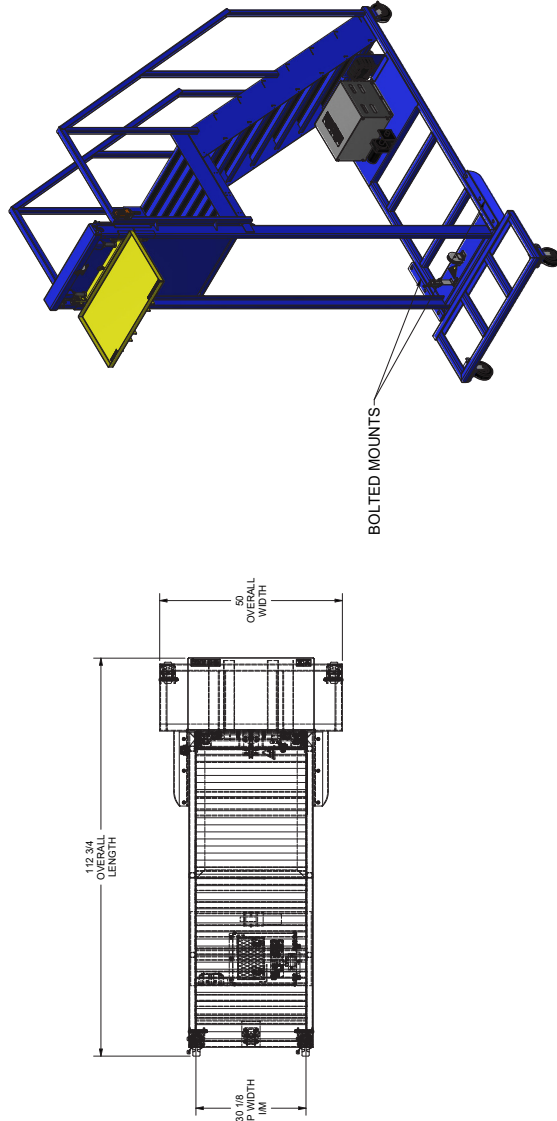
- Moving parts can crush and cut.
- Keep hands and fingers clear.
- De-energize and lockout/tagout before servicing unit

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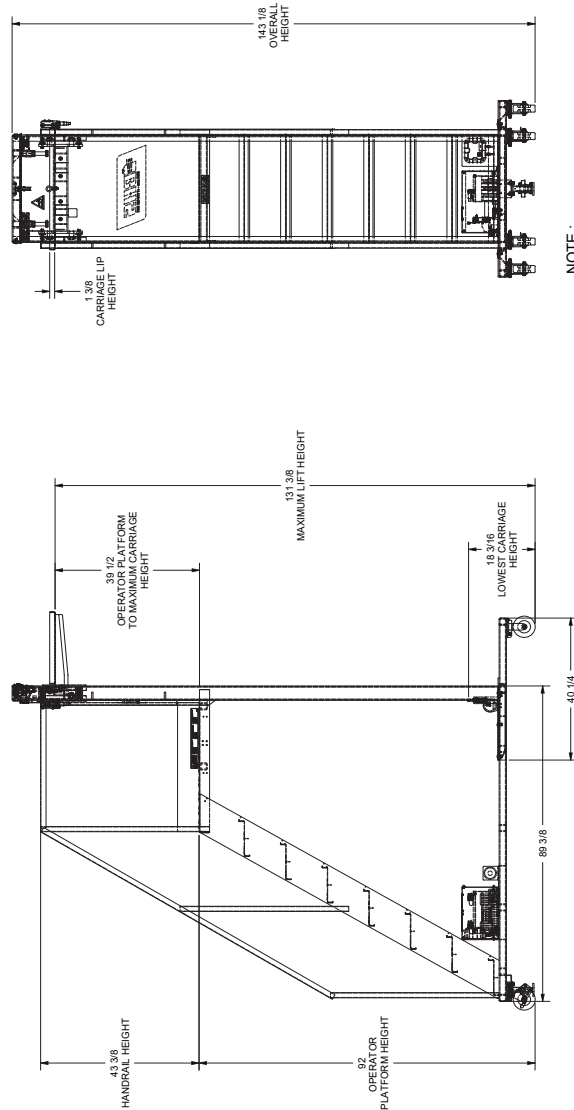


SECTION 1

CHASSIS

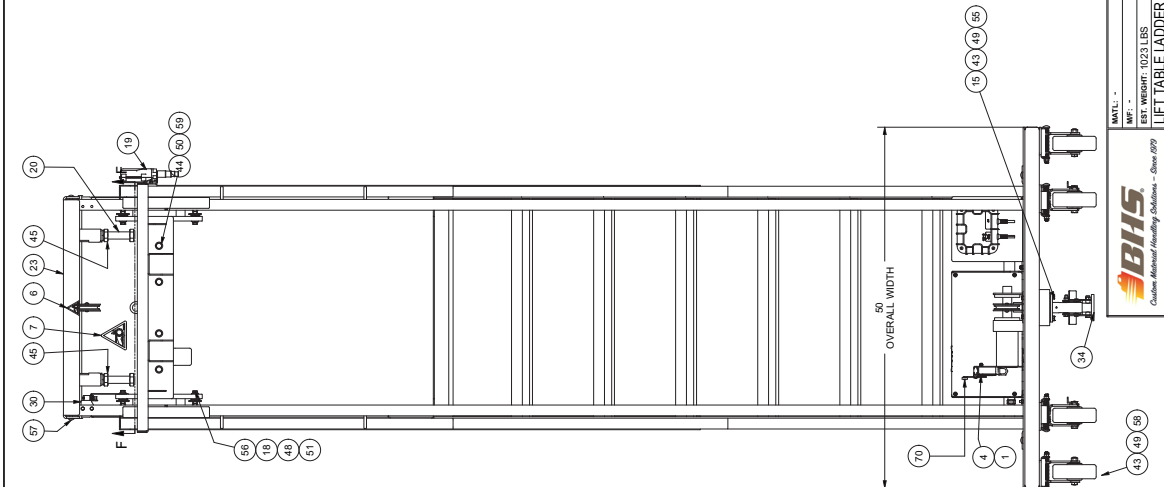
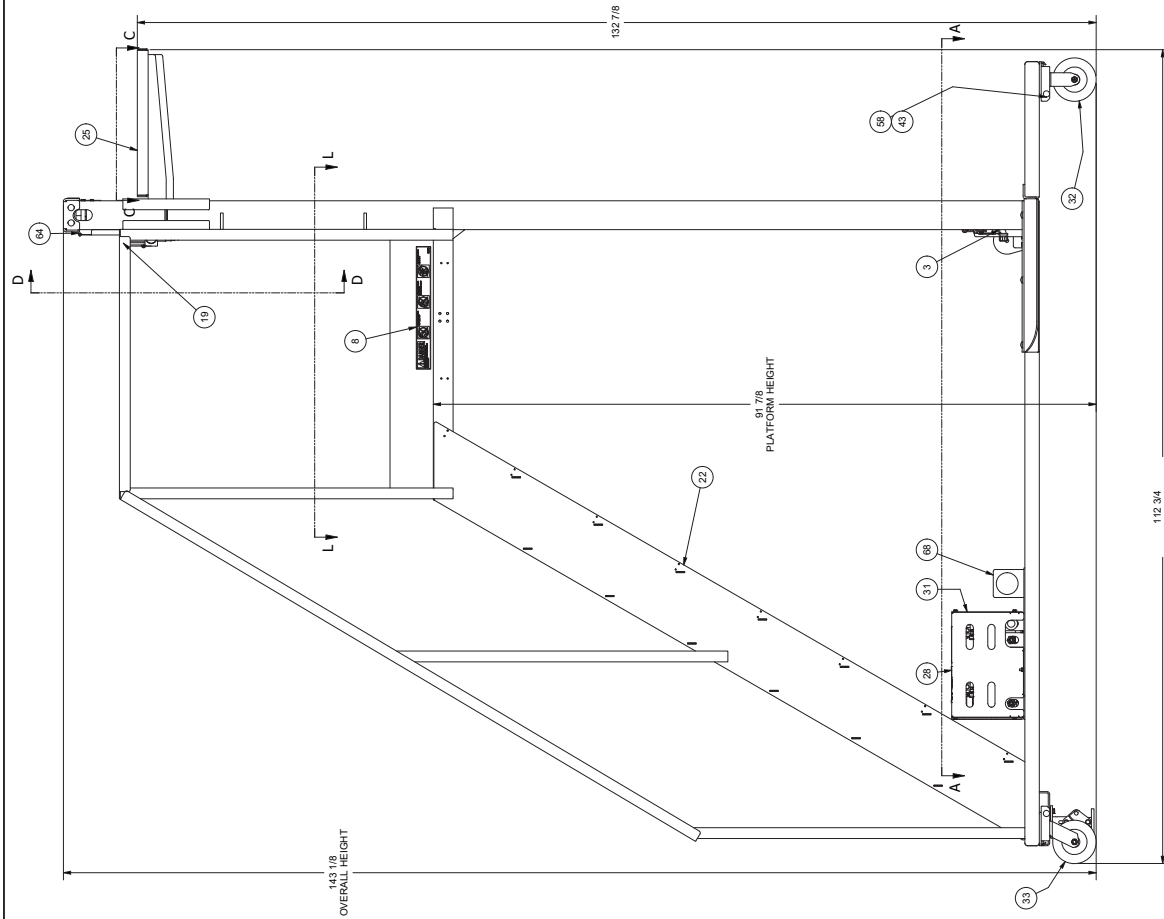


76	29410521	1	BASE-STOP	
75	8600C21	1	GROUSET-1 ID X 1.387 OD X 1.314 FLANGE DIA	
74	E0017	2	LOCKOUT-CONDUIT-1/2	
73	29417024-2	3	ANGLE CONNECTOR MOUNT	
72	E0016	1	SWITCH-1/2 250.375	
71	29417024-1	1	SWITCH-DRIVE-0.0	
70	E0039	1	RELAY-3/4-NO-NO-DPST-1/2V	
69	E0211	2	Unlty Wrench M. 1/2V. 2000 lb	
68	ET0654	4	THRUST WASHER-1/4 ID 1/16 OD 125" THICK	
67	ET0464	4	THRUST WASHER-1/4 ID 1/16 OD 125" THICK	
66	E0039	1	RELAY-3/4-NO-NO-DPST-1/2V	
65	PL0602	23	TAPE-ALUMINUM 80MFT ID	
64	PL0602	23	VINYL EDGING	
63	CC030 GEN1	1	GENCO GENCO GENIUS-1/2V DC. 10A	
62	MD-50	1	50 AMP FUSE	
61	HW1131	4	REMAINING RING-EXTERNAL-1" ID	
60	HW1131	4	REMAINING RING-EXTERNAL-1" ID	
59	HW0603	1	BOLT-HCS-1/2X3.5 X 1/2	
58	HW0603	4	BOLT-HCS-1/2X3.5 X 1/2	
57	HW0431	4	BOLT-CARRIAGE-3/8-16 X 1 1/4	
56	HW0405	5	BOLT-HCS-3/8-16 X 1 1/2	
55	HW0404	4	BOLT-HCS-3/8-16 X 1 1/2	
54	HW0309	4	Bolt-Split Top 1/4 X 20 X 1 1/2	
53	HW0309	4	Bolt-Split Top 1/4 X 20 X 1 1/2	
52	HW0304	1	WASHER-FLAT-3/8-FENDER	
51	HW0126	13	WASHER-FLAT-3/8-FENDER	
50	HW0111	4	WASHER-FLAT-1/2 (ZINC)	
49	HW0108	4	WASHER-FLAT-1/2 (ZINC)	
48	HW0108	4	WASHER-FLAT-1/2 (ZINC)	
47	HW0104	24	WASHER-FLAT 1/4	
46	HW0103	4	WASHER-FLAT 1/4	
45	HW0105	2	NUT-JAM-1/8	
44	HW0008	4	NUT-1/8 ID-1/3	
43	HW0008	4	NUT-1/8 ID-1/3	
42	HW0008	4	NUT-1/8 ID-1/3	
41	HW0002	234	NUT-HCS-1/4 X 1/2	
40	E11004-1	1	COVER-TERMINAL-4/2 (BLACK)	
39	E1003-1	1	COVER-TERMINAL-4/2 (RED)	
38	E0619	3	BATTERY AGM-12V 46	
37	E0619	3	BATTERY AGM-12V 46	
36	E0433	1	DC REVERSING CONTACTOR-100A-1/2V	
35	E0433	1	DC REVERSING CONTACTOR-100A-1/2V	
34	E0433	1	Battery Terminal W/ins Pkg	
33	E0303	35	MCROSWITCH-4X3-286	
32	CO110	4	1/2-1/2V LOCK LK-1	
31	CO110	4	1/2-1/2V LOCK LK-1	
30	CO110	4	1/2-1/2V LOCK LK-1	
29	29417029-2	1	MOUNT ROLLING SWITCH	
28	29417029-2	1	ELECTRICAL ENCLOSURE	
27	29417025-2	1	ANGLE-PROX. ADJUSTER	
26	29415007	4	WELDMET-FLAT-1/2V	
25	29415007	4	WELDMET-FLAT-1/2V	
24	29415007	4	WELDMET-FLAT-1/2V	
23	29415005	1	WELDMET-ROLLER MOUNT	
22	29415005	1	WELDMET-ROLLER MOUNT	
21	29415005	1	WELDMET-ROLLER MOUNT	
20	29415003	1	WELDMET-ROLLER MOUNT	
19	29415003	1	WELDMET-ROLLER MOUNT	
18	29415003	1	WELDMET-ROLLER MOUNT	
17	29415003	1	WELDMET-ROLLER MOUNT	
16	29415003	1	WELDMET-ROLLER MOUNT	
15	29415003	1	WELDMET-ROLLER MOUNT	
14	29415003	1	WELDMET-ROLLER MOUNT	
13	29415003	1	WELDMET-ROLLER MOUNT	
12	29415003	1	WELDMET-ROLLER MOUNT	
11	29415003	1	WELDMET-ROLLER MOUNT	
10	29415003	1	WELDMET-ROLLER MOUNT	
9	29415003	1	WELDMET-ROLLER MOUNT	
8	29415003	1	WELDMET-ROLLER MOUNT	
7	29415003	1	WELDMET-ROLLER MOUNT	
6	29415003	1	WELDMET-ROLLER MOUNT	
5	29415003	1	WELDMET-ROLLER MOUNT	
4	29415003	1	WELDMET-ROLLER MOUNT	
3	29415003	1	WELDMET-ROLLER MOUNT	
2	29415003	1	WELDMET-ROLLER MOUNT	
1	29415003	1	WELDMET-ROLLER MOUNT	



NOTE :

1. REMOVE BURRS BREAK SHARP EDGES



NOTE:

1. REMOVE BURRS BREAK SHARP EDGES

MATERIAL: -

MTF: -

EST WEIGHT: 1023 LBS

BY: LAM

DATE: 2020-07-10

LIFT TABLE LADDER N5

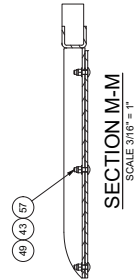
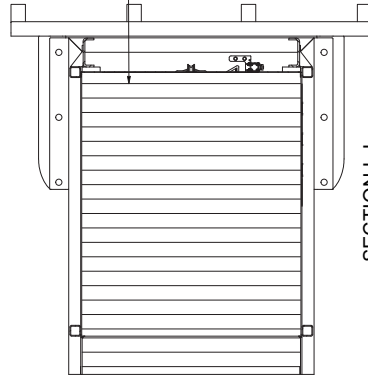
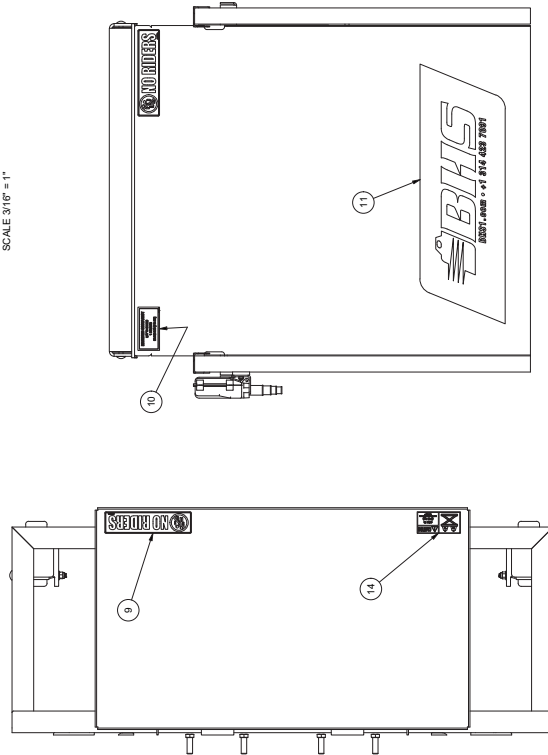
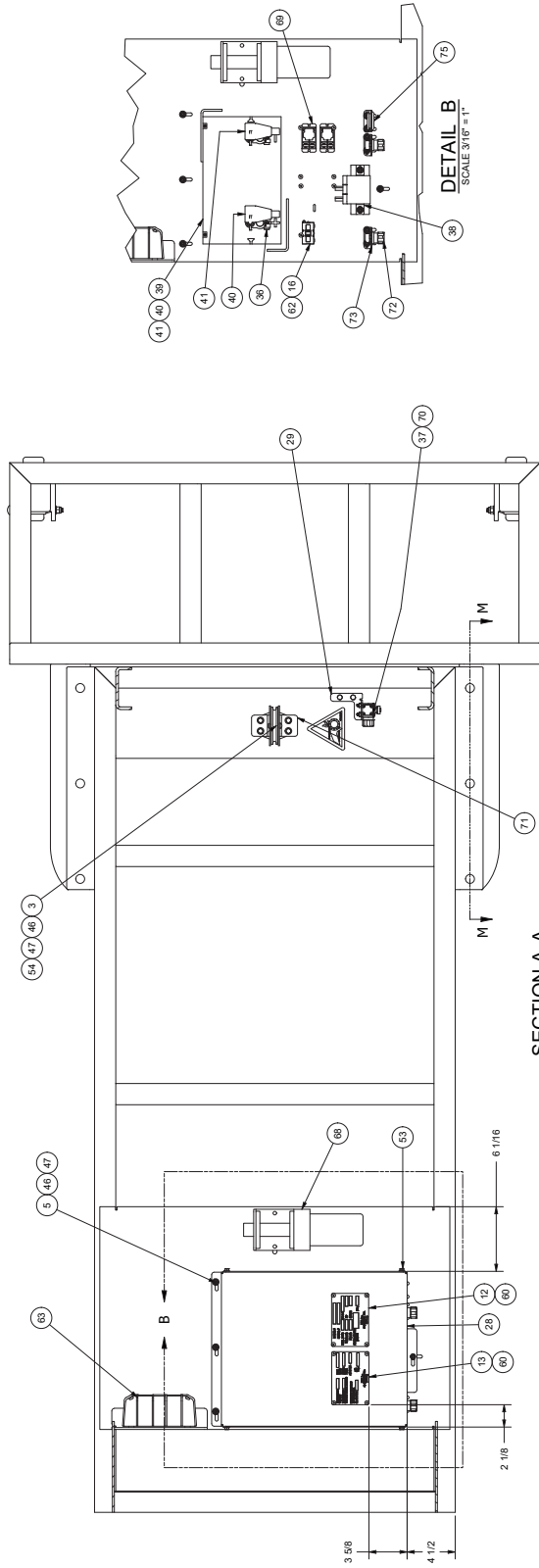
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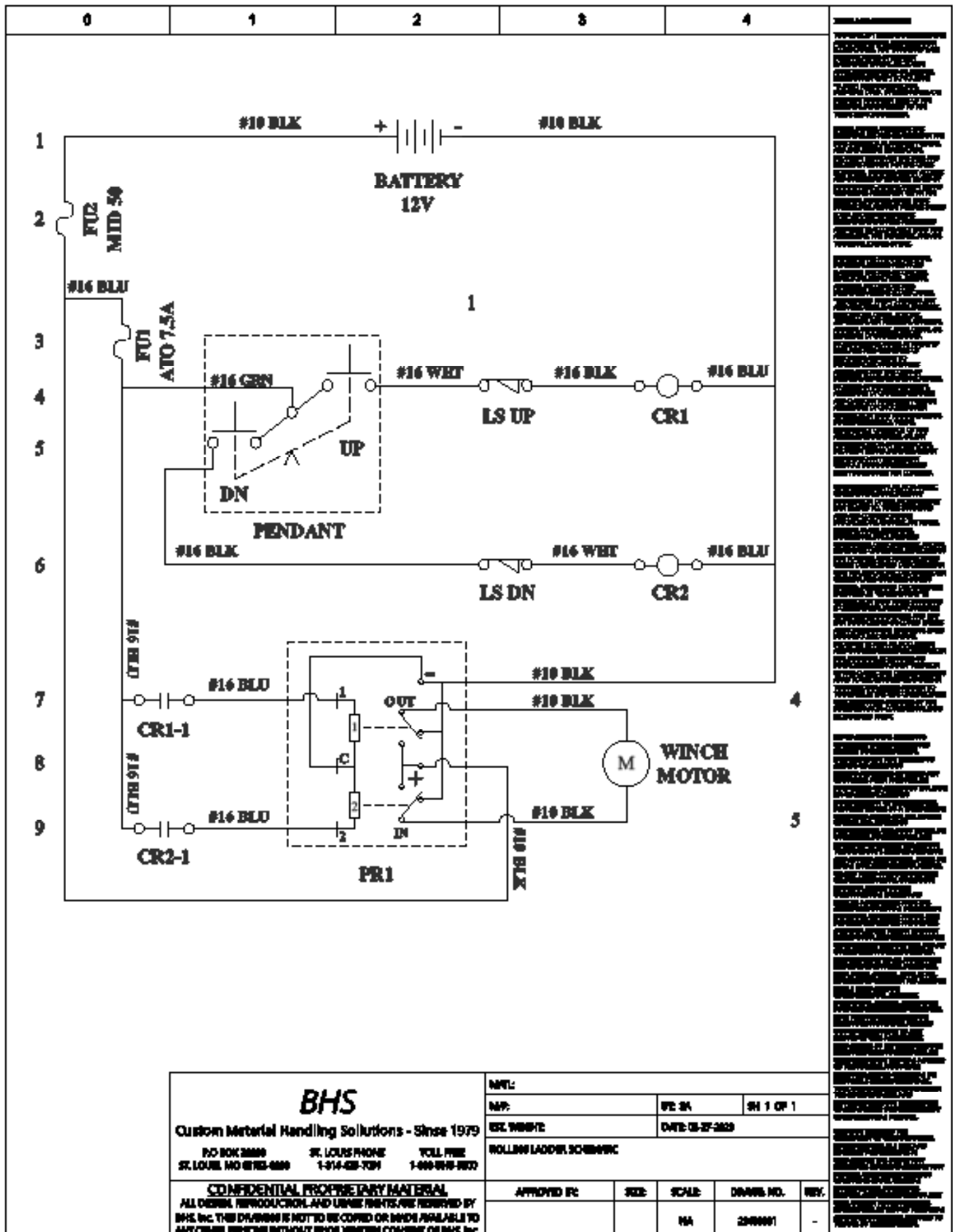
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NOTE:

1. REMOVE BURRS BREAK SHARP EDGES

SECTION 2

ELECTRICAL



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The BHS Technical Support Help Line is open from 8:00 a.m. - 5:00 p.m. Central Time.

To reach the BHS Technical Support Group call 1.877.BHS.4YOU (1.877.247.4968)
Local: 314.890.0953



1.877.BHS.4YOU