

MAINTENANCE & TROUBLESHOOTING MANUAL

PUSH AROUND AERIAL WORK PLATFORM

SUPO-726 REV A



HB-P3.6

SERIES I

The purpose of this Maintenance Ma maintaining Hy-Brid Lifts. All inform to service this machine.		
The operation and safety manual is operation and safety manual is operative procedures essential to properly and understand all information in the Saf		
TI BE READ ANI		
 The user/operator should not ad well as having operated the lift u Because the manufacturer has r practices are the responsibility operations. 		
AI OUT THE EXPRESS		
	 If there is a question about application and/or operation, contact; 	

aintenance Manual is to provide qualified service personnel with information for servicing and its. All information in this manual must be read and understood before any attempt is made

ety manual is considered a part of the work platform and contains instructions and operating o properly and safely operate the Custom Equipment Hy-Brid Lift. Users must read and tion in the Safety and Operations Manual before operation.



THE OPERATION AND SAFETY MANUAL MUST BE READ AND UNDERSTOOD PRIOR TO OPERATING THE MACHINE.

should not accept operating responsibility until the manual has been read and understood as erated the lift under supervision of an experienced and qualified operator. ufacturer has no direct control over machine application and operation, proper safety esponsibility of the user and all operating personnel.

WARNING

ANY MODIFICATION ON THIS MACHINE WITH THE EXPRESS WRITTEN CONSENT OF THE MANUFACTURER IS PROHIBITED.

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SECTION 1 | SAFETY

1.1 | SAFETY SYMBOLS



FAILURE TO FOLLOW THIS WARNING WILL CAUSE DEATH OR PERSONAL INJURY.



FAILURE TO FOLLOW THIS WARNING MAY CAUSE DEATH OR PERSONAL INJURY.

"DANGER" indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.

"WARNING" indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury

"CAUTION" indicates a potentially hazardous situation

which, if not avoided, could result in minor or moderate injury or damage to equipment



FAILURE TO FOLLOW THIS WARNING MAY CAUSE INJURY OR DAMAGE TO EQUIPMENT.

1.2 | GENERAL RULES AND PRECAUTIONS

An operator of any type of work platform is subject to certain hazards that cannot be protected by mechanical means. It is therefore essential that operators be competent, careful, physically and mentally fit and thoroughly trained in safe operation of this machine.

Although Custom Equipment, LLC conforms to specified EN 280 Standards, it is the responsibility of the owner to instruct operators with the safety requirements made not only by Custom Equipment, LLC, but by the various safety boards in your area, as well as additional requirements set forth by EN 280 Standards. If you come across a situation that you think might be unsafe, stop the platform and request further information from qualified sources before proceeding.



MAINTENANCE INFORMATION IS FOR USE BY TRAINED PERSONNEL ONLY



NEVER REACH BETWEEN SCISSORS LINKS OR PROP UP PLATFORM UNLESS MAINTENANCE PINS ARE IN PLACE

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1.3 | STABILITY TESTING

The HB-P3.6 has been stability tested to standards EN280 or AS 14180. The most adverse stability test is the stationary, lateral slope configuration for both units. The overturning moment created by the test loads and forces is equivalent to a test on an unloaded machine on a level surface, as shown in the figure below. For the HB-P3.6, the test weight/pull force is 22.8 kg / 50 lb.



1.4 | SAFETY GUIDELINES

Maintenance Lock

The maintenance lock must be placed into position whenever the machine is being serviced in the raised or partially raised position. Serious injury and/or death could result if maintenance lock is not used properly.



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FIGURE 1: Equivalent Stability Test



FIGURE 2: Maintenance Pin Lock Use FIGURE 3: Maintenance Pin Lock Storage



FAILURE TO COMPLY WITH THE LISTED SAFETY PRECAUTIONS MAY RESULT IN MACHINE DAMAGE, PERSONNEL INJURY, OR DEATH.

Other Guidelines

- Never work under an elevated platform until maintenance locks have been engaged.
- Remove all rings, watches, and jewelry when performing any maintenance.
- Do not wear long hair unrestrained or loose fitting clothing and neckties which may become caught on or entangled in equipment.
- Observe and obey all warnings and cautions on machine and in manual.
- Keep oil, grease, water, etc. wiped from standing surfaces and handholds.
- Before making any adjustments, lubricating or performing any other maintenance, shut off all power controls.
- Battery should always be disconnected during replacement of electrical components.
- Keep all support equipment and attachments stowed in their proper place.
- Use only approved nonflammable cleaning solvents.
- After maintenance, inspect the machine as described for Pre-delivery.

2.1 | BATTERY MAINTENANCE

Battery cycle life will vary significantly depending on the depth of discharge. The deeper the depth of discharge the fewer cycles a battery will deliver. Conversely, the shallower the depth of discharge the more cycles a battery will deliver. To optimize the health of your battery, limit discharge to 80%.

The performance and life of a battery will vary with application, usage, temperature and depth of discharge. AGM batteries tend to deliver higher than their rated capacity (up to 10-15% higher) for -30 cycles until they are "broken in" and settle at their rated capacity.

Operating batteries above 27°C will yield run times above the rated capacity and operating batteries below 27°C will yield run times below the rated capacity. Cold temperatures can significantly reduce battery capacity. Although higher temperatures increase the battery capacity they also accelerate corrosion and reduce overall battery life.

2.2 CHARGING THE BATTERY

This unit is equipped with a deep cycle 12-volt AGM maintenance-free battery

Batteries should be fully charged after each use. Opportunity charging can be done but the batteries should be fully charged at least every other day if they are used daily. Charge in a ventilated area as gases may be released through the pressure relief valve if the batteries are excessively over-charged.

NOTE: The surrounding temperature greatly affects the power reserve within a battery.

EXAMPLE: A battery that is 100% charged at 27°C drops to 65% at 0°C At -18°C, this battery will drop to 40% efficiency.



To Charge:

• Park the machine on a level surface.

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HB-P3.6

- Plug charger into AC outlet until charged.
- battery charge



DO NOT OPERATE UNIT WHILE CHARGING. DO NOT DISABLE CHARGER INTERLOCK.



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SECTION 2 | MAINTENANCE



BATTERIES GENERATE EXPLOSIVE GASES. KEEP SPARKS AND FLAME AWAY FROM BATTERIES. DO NOT SMOKE WHILE CHARGING.

• For best battery life, leave charger plugged in until machine will be used again. The charger will maintain the





NEVER ADD ACID TO BATTERY!



FIGURE 4: Battery Charger LED Display

D/C current to the batteries.

How to read the battery displays

POWER	BATTERY 1	. STATUS
FOWER	CHARGING	READY
Green LED (ON)	Red LED (OFF)	Green LED (ON)

This display indicates that the power is on but there is no connection to a battery. The charger must see approximately five (5) volts on a battery to deliver D/C current.

This display indicates that power is on and that both outputs are delivering

POWER

(ON)

POWER



(ON)

BATTERY 1 STATUS

CHARGING READY

BATTERY 1 STATUS

CHARGING READY



This display indicates that power is on and that both outputs are finished charging and are in a float maintenance mode.





Wheels

ltem

2.3 | LUBRICATION

2.4 | COMPONENTS REQUIRING ADJUSTMENT

Under normal use, no components should require adjustment. Contact the manufacturer if adjustments are required.

2.5 | EXAMINATION, REPAIR, REPLACEMENT OF LIMITED LIFE COMPONENTS

With proper use, regular battery charging, and regular inspection, there are no limited life components that require routine replacement.

2.6 | SAFETY DEVICES AND SYSTEMS REQUIRING CHECKS

Check safety functions as part of daily inspection. Check that the brakes are holding.

2.7 | STORAGE

After periods of storage, exposure to extremes of ambient conditions-heat, cold, moisture, dust etc. inspect the machine. Batteries will need to be charged. Refer to the Pre-Delivery/ Frequent Inspection Checklist in the Maintenance Manual.

2.8 | MAJOR ALTERATIONS OR REPAIRS

Any alterations must be approved by the manufacturer. Major repairs, which affect the stability, strength, or performance of the machine must also be approved by the manufacturer, recorded, and include machine inspection and testing. Never attach pipe racks, material lifting devices, or make any other alteration that is not part of the intended design of the machine.

Specification	Frequency of Lubrication
Teflon Spray	Quarterly

SECTION 3 | MAINTENANCE CHECKLISTS



FAILURE TO PERFORM INSPECTIONS AND PREVENTATIVE MAINTENANCE AT RECOMMENDED INTERVALS MAY RESULT IN THE UNIT BEING OPERATED WITH A DEFECT THAT MAY RESULT IN INJURY OR DEATH OF THE OPERATOR.

Regular inspection and conscientious maintenance is important to efficient economical operation of this machine. It will help to assure that equipment will perform satisfactorily with a minimum of service and repair. Make checks at the stated intervals or more frequently if required by local operating conditions. The following inspection checklists are included in this manual:

- Pre-Start (required before operation at each work shift)
- Frequent
- Pre-Delivery/Annual (Required at intervals not more than twelve months)

The rated life of the machine is Light Intermittent Duty (typical use 10 years, 40 weeks per year, 20 hours per week, 5 load cycles per hour).

3.1 | PRE-START INSPECTION CHECKLIST



MODEL NUMBER: ______ SERIAL NUMBER: _____

- Keep inspection records up-to-date.
- Record and report all discrepancies to your supervisor.
- A dirty machine cannot be properly inspected.

Y – Yes/Acceptable N – No/Unacceptable R – Repaired

Visual Inspections There are no loose or missing parts. Check that warning and instructional labels are leg marked. Check the platform rails and safety gate for damage Platform and base controls are not missing, dama Electrical cables and wires are not torn, frayed, or Hydraulic hoses are not torn or loose; there are no chafing. Check the tires for damage. Check that wheel axl tight. Check that all snap rings are secure in grooves on **Functional Tests** Gate closes automatically and latches (alignment necessary). Platform Controls: Check all switches and push be Emergency Stop (Stops all movement) Drive & Up/Down Mode Switch (Selects drive/ Joystick (Return to neutral, drives forward & re Drive Enable Trigger (Must be activated to drive Base Controls: Check all switches and push butto Emergency Stop (Stops all movement) Key Switch (Selects Platform Control, Ground Up/Down Rocker Switch (Elevates, Lowers) Alarm (Not damaged, sounds for descent, tile) Wheels: Front and rear wheels rotate freely. Brakes: Machine stops when joystick released. Pothole guards deploy and lock when platforn Lift does not elevate when pothole guards are Date: _____ Inspected By:___

THIS CHECKLIST MUST BE USED AT THE BEGINNING OF EACH SHIFT OR AFTER EVER SIX TO EIGHT HOURS OF USE. FAILURE TO DO SO COULD AFFECT THE SAFETY OF THE OPERATOR.

Y N R

gible and secure. Ensure that load capacity is clearly		
ge.		
iged, or disconnected.		
disconnected.		
o leaks; hoses and the cables have no worn areas or		
le retaining rings and set screw in rear wheel are		
n pivot pins.		

can be adjusted with screw on toe board or railing if		
uttons for proper operation.		
steer or elevate mode)		
everse, elevates & lowers)		
e)		
ons for proper operation.		
Control, or Off)		
n is elevated.		
blocked.		

3.2 | PREDELIVERY / FREQUENT / ANNUAL INSPECTION CHECKLIST



AERIAL PLATFORMS SHALL BE INSPECTED, SERVICED, AND ADJUSTED TO MANUFACTURER'S REQUIREMENTS BY A QUALIFIED MECHANIC PRIOR TO EACH SALE, LEASE, OR RENTAL, AND EVERY 3 MONTHS OR 150 HOURS, WHICHEVER COMES FIRST, AND ANNUALLY.

Model:

_ Serial Number:___ • Check each item listed below.

- Use proper operating, service, and maintenance manual for specific information and settings
- If an item is found to be unacceptable make the necessary repairs and check the "repaired" box.
- When all items are "acceptable", the unit is ready for service.
- If an item is found to be unacceptable, make the necessary repairs and check the "repaired" box. When all items are "acceptable," the unit is ready for service.

Y – Yes/Acceptable N – No/Unacceptable R – Repaired

BASE:	Y	Ν	R	PLATFORM:	Y	Ν	R
Inspect slide tracks for damage				All rails in place/secure			
All frame bolts tight				No bent rails			
Pump Secure				No broken welds			
DC motor secure				Platform power outlet safe/working (if installed)			
Battery Hold Downs Secure				Entrance gate closes freely			
Batteries Fully Charged				Cables in place/secure			
Counterweights secured				Functions:			
Wheels: Grease casters				Elevate/Lower Operational			
Wheels: Bolts/Nuts Tight				Master Power Switch Breaks Circuits			
Maintenance Locks: Pins storage location				Emergency Stop Breaks Circuits			
All Shields/Guards in place				Emergency Down Operational			
Hydraulic Oil Level				Motion Alarms Functional			
Check all hydraulic hoses for leaks				Brakes: Operational			
Check all hydraulic fittings for leaks				Bubble Level in Place			
SCISSORS				When beginning to elevate, overload light and alarm activate. Then, if not overloaded, allows elevation to continue, and light and alarm stop.			
No Broken Welds				When overloaded, platform stops elevating.			
Ret. Rings Secure on Pivots				Check battery Voltage: <12.5V, charge.			
No Bent Beam Members				WIRING / OTHER:			
All rollers turn freely				Switches secure			
DECALS:				Contactor(s) secure			
Legibility				Tight on terminals (no loose wiring)			
Correct capacity noted				Operator / Service Manual Included			
Proper placement quantity				Battery Charger Secure / Operational			
COMMENTS:							

Date:___

_____ Inspected by:____

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SECTION 4 | TECHNICAL REFERENCES

4.1 | HYDRAULIC SCHEMATIC



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4.2 | ELECTRICAL SCHEMATIC



⁸ THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY TO CUSTOM, EQUIPMENT AND IS LOANED IN EXPECTATION THAT IT WILL BE KEPT CONFIDENTIAL AND USED ONLY FOR THE PURPOSE FOR WHICH IT IS LOANED.



SECTION 5 | WIRING DIAGRAMS

5.1 | WIRING DIAGRAM

Part No. WD-143-20-002-51



⁸ THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY TO CUSTOM, EQUIPMENT AND IS LOANED IN EXPECTATION THAT IT WILL BE KEPT CONFIDENTIAL AND USED ONLY FOR THE PURPOSE FOR WHICH IT IS LOANED.



5.2 | WIRING DIAGRAM

PART NO. WD-144-21-010-55



⁸ THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY TO CUSTOM, EQUIPMENT AND IS LOANED IN EXPECTATION THAT IT WILL BE KEPT CONFIDENTIAL AND USED ONLY FOR THE PURPOSE FOR WHICH IT IS LOANED.

SECTION 6 TROUBLESHOOTING FLOWCHARTS

6.1 | TROUBLESHOOTING FLOWCHART: POWER

Troubleshooting Step 1: Main Power Rev. B



6.2 | TROUBLESHOOTING FLOWCHART: ELEVATING

Troubleshooting Step 2A: Elevating Rev. B



6.3 | TROUBLESHOOTING FLOWCHART: LOWERING

Troubleshooting Step 2B: Lowering Rev. B





USE ONLY MANUFACTURER APPROVED REPLACEMENT PARTS. USE OF NON-OEM PARTS WILL VOID WARRANTY.



REPLACEMENT OF THE FOLLOWING COMPONENTS WILL AFFECT THE STRENGTH, STABILITY, OR SAFETY FUNCTION OF THE UNIT: BATTERY, HYDRAULIC CYLINDER, CONTROL BOARD, AND ALL STRUCTURAL COMPONENTS.

Listed in the following section are diagrams for parts that may be available for replacement and for reference. These represent current model revisions. Refer to our website, www.hybridlifts.com for more complete part listings and earlier revisions. Several parts are model-, serial number-, or manufacture date-specific. Contact your dealer for replacement part availability and pricing.

DESCRIPTION	PART NUMBER	NOTES
BRAKE SPRNG	HARD-690	
BUBBLE LEVEL	HARD-086	
BUTTON, PUSH GREEN	ELEC-602-KIT	
BUTTON, PUSH/PULL RED E-STOP	ELEC-071-KIT	
CONTACT BLOCK,NC	ELEC-072	
CONTACT BLOCK,NO	ELEC-603	
DECAL KIT, HB-P3.6	143-20-006-51-К	
GATE SPRING	HARD-606-2	
HYDRAULIC OIL	HYDR-032	Not available as a replacement part. Replace with Flomite #150, Dexron II, Mobil-DTE 2 or equivalent 32 weight implement oil.
MANUAL BOX	HARD-603	
METER, VOLT, 12V	ELEC-610-5	
RIGID CASTER ASSEMBLY	144-21-031-50-К	
SWITCH LEVER,MASTER DISCONNECT	ELEC-633-2	
SWITCH,LIMIT,ROT LVR,NO/NC PO	ELEC-123-5	
SWITCH,ROTARY MOMENTARY,3- POS	ELEC-002A-KIT	
SWIVEL CASTER ASSELMLY	WHEE-713-5-KIT	
TERMINAL BOOT (BLACK)	ELEC-634D	
UPR CTL ASM, HB-P3.6	144-21-010-55	
WHL,8X2	WHEE-706-KIT	

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LIMITED WARRANTY

Warranty Statement-International

LIMITED WARRANTIES

Subject to the terms, conditions and limitations set forth herein, Custom Equipment, LLC (the "Company") warrants to the first end-user ("Buyer") that:

Limited Product Warranty

For a period of 24 months from the date that a new product manufactured by the Company ("Product") is delivered to the Buyer, the Product will (i) conform to the specifications published by the Company for such Product as of the date of delivery; and (ii) be free of any defect in material and/or workmanship under normal use and maintenance: and

Extended Structural and Chassis Warranty

For a period of 60 months from the date that the Product is delivered to the Buyer, the chassis and other structural components of such Product will be free from defects in material and/or workmanship under normal use and maintenance.

EXCLUSIONS / WHAT IS NOT COVERED

The following items are NOT covered under this Limited Warranty:

Defects in, and damage or loss relating to, any batteries incorporated by the Company into or made a part of the Product. Any such defects, damage or loss shall be exclusively covered by the battery manufacturer's warranty, if any. For more information regarding the battery warranty, the Buyer should contact the battery manufacturer using the contact information shown on the battery;

Damage or loss resulting from or caused by carrier handling;

Damage or loss resulting from or caused by normal wear and tear, weathering, lack of use or use with incompatible equipment or software;

Damage resulting from or caused by improper maintenance, improper handling or storage, improper use, abuse, neglect, operation beyond rated capacity, or operation after discovery of defective or worn parts;

Any part, component or assembly altered or modified in any way not approved in writing by the Company;

Damage to any equipment or parts not manufactured by the Company; and Acts of God, accidents or any other causes beyond the Company's reasonable control.

MAKING A WARRANTY CLAIM

As a prerequisite to making any claim under this Limited Warranty, Buyer must give the Company written notice of any suspected defect promptly after discovery. Such notice shall specifically identify the suspected defect, the original delivery date and complete Buyer identification and location information. The Company will not accept any Product for warranty service without receiving Buyer's written notice and issuing a return goods authorization. Buyer shall retain all defective Products or parts, components or assemblies thereof for a minimum period of six (6) months. If requested by the Company, Buyer shall return the defective Product, or parts, components or assemblies thereof, to the Company, F.O.B, Company's designated location. All returned Products or parts, components or assemblies thereof that are replaced under this Limited Warranty shall become the property of the Company. The Company reserves the right to review Buyer's maintenance and operation records and procedures to determine if the alleged defect(s) were due to any of the items listed in Sections 2 of this Limited Warranty. The Company shall not be liable for any claim under this Limited Warranty if Buyer fails to satisfy the conditions set forth in this Section.

EXCLUSIVE WARRANTY REMEDIES

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The Company's sole obligation and Buyer's exclusive remedy with respect to any defect in the Product occurring during the warranty periods set forth in Section 1 of this Limited Warranty shall be for the Company, at its option, to repair or replace (or have one of its designated authorized dealers repair or replace) the Product or part, component or assembly thereof that contains a defect in materials or workmanship. The Company reserves the right, at its discretion, to use new, remanufactured or refurbished replacement parts. Notwithstanding anything in this Limited Warranty to the contrary, the Company shall not be obligated to replace the entire Product if a covered defect can be remedied by the repair or replacement of a defective part, component or assembly. The Company shall be responsible for the cost of all parts necessary to remedy such defect. Buyer shall be responsible for payment of any costs or fees due to the authorized dealer to perform any warranty service.

DISCLAIMER OF OTHER EXPRESS AND IMPLIED WARRANTIES

Except for the limited warranties set forth in section 1 above, the company makes no other representations or warranties and hereby disclaims all express or implied representations or warranties regarding the product, including, without limitation, any implied warranty of merchantability, non-infringement of proprietary or third-party rights or fitness for a particular purpose. There are no warranties which extend beyond the description on the face hereof. No employee or representative of the company or any of its authorized dealers is authorized to modify any term, condition or limitation in this limited warranty unless such modification is made in writing and signed by an officer of the company.

LIMITATION OF LIABILITY

Notwithstanding anything in this warranty to the contrary, in no event shall the company or any of its affiliates or subsidiaries be liable to buyer for any indirect, special, exemplary, punitive or consequential damages (including lost profits, lost revenue, down time, loss of business opportunity or other economic losses), whether in an action in contract or tort (including negligence and strict liability) or otherwise, even if the company has been specifically advised of the possibilities of such damages.

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> © 2017 Custom Equipment, LLC 2647 Highway 175 Richfield, WI 53076 U.S.A. Tel. +1-262-644-1300 Fax: +1-262-644-1320 www.hybridlifts.com service@customequipmentlifts.com

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