



MAINTENANCE AND TROUBLESHOOTING MANUAL

Hy-Brid Lifts Model HB-P830CE Series 2

Push-Around Aerial Work Platform

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Revision Table:

Revision A (12/17/2012): Initial Release Revision B(3/11/13): Revised p. 3, 29, 30 Revision C (6/6/13): Revised p. 3, 31

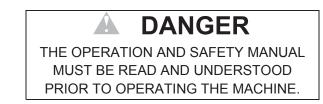
 29
 30

Original instructions are written in English

Foreword

The purpose of this Maintenance Manual is to provide gualified service personnel with information for servicing and maintaining Hy-Brid Lifts. All information in this manual must be read and understood before any attempt is made to service this machine.

The operation and safety manual is considered a part of the work platform and contains instructions and operating procedures essential to properly and safely operate the Custom Equipment Hy-Brid Lift. Users must read and understand all information in the Safety and Operations Manual before operation.



THE USER/OPERATOR SHOULD NOT ACCEPT OPERATING RESPONSIBILITY UNTIL THE MANUAL HAS BEEN READ AND UNDERSTOOD AS WELL AS HAVING OPERATED THE LIFT UNDER SUPERVISION OF AN EXPERIENCED AND QUALIFIED OPERATOR.

BECAUSE THE MANUFACTURER HAS NO DIRECT CONTROL OVER MACHINE APPLICATION AND OPERATION. PROPER SAFETY PRACTICES ARE THE RESPONSIBILITY OF THE USER AND ALL OPERATING PERSONNEL.



ANY MODIFICATION ON THIS MACHINE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE MANUFACTURER IS PROHIBITED.

If there is a question on application and/or operation, contact:

Custom Equipment, Inc. 2647 Hwy 175 Richfield, WI 53076 USA Phone: 262-644-1300 Fax: 262-644-1320 www.hybridlifts.com

For additional reference and troubleshooting information, please see www.hybridlifts.com.

Safety

Safety Symbols

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

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



General Rules and Precautions

Custom Equipment, Inc. designed the Hy-Brid Lift push-around scissor lift to be safe and reliable. It is intended for elevating personnel, along with their necessary tools and materials to overhead work locations.

Vibration does not create significant hazards on this machine.

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

> WARNING MAINTENANCE INFORMATION IS FOR USE BY TRAINED PERSONNEL ONLY

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

	"DANGER" indicates an imminently hazardous situation, which, if not avoided, <i>will</i> result in death or serious injury.
	"WARNING" indicates a potentially hazardous situation, which, if not avoided, <i>could</i> result in death or serious injury
Г	"CAUTION" indicates a potentially hazardous situation which, if not avoided, <i>could</i> result in minor or moderate injury or damage to equipment

Stability Testing

The HB-P830CE 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-P830, the test weight/pull force is 22.8 kg /50 lb.

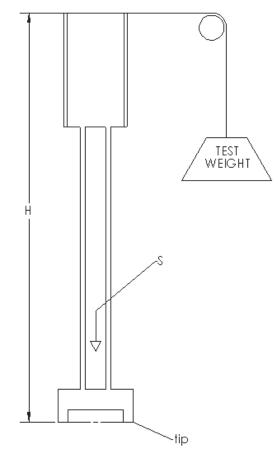


Figure 1: Stability Testing, Equivalent

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.

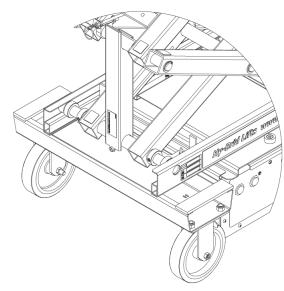


Figure 2: Maintenance Lock Pin Use

Maintenance

- 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.

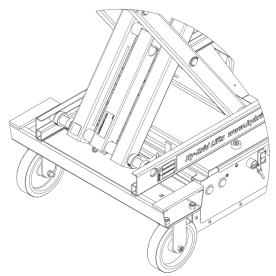


Figure 3: Maintenance Lock Pin Storage

WARNING

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

Battery Maintenance

This unit is equipped with a deep cycle 12-volt Group 27 battery. The care and maintenance of your battery has much to do with how well this unit functions. Battery wiring and water level should be checked monthly. **Do not overfill.** When the cells are too full, fluid will seep out when charging. The solution is at its proper strength when the battery is manufactured. Use distilled water and keep fluid up to proper level. When required, water should be added to battery after charging, unless water level is below the plates.

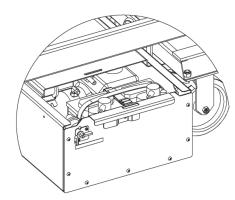


Figure 4: Battery Maintenance

- Slide cabinet open to access battery.
- Remove battery caps and check fluid level. •
- Fill each cell (if needed) to split ring with • distilled water.
- Reinstall caps. •
- Wash all dirt, debris, acid, etc., off battery whenever corrosion is detected. Use a solution of 5-tsp. baking soda per quart of warm water.
- Coat terminals with a commercially • available coating.
- Close cabinet and latch in place.

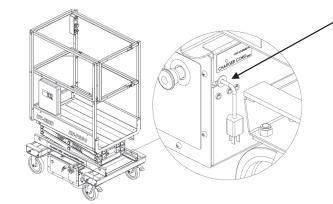
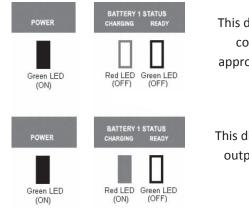


Figure 5: Battery Charger LED Display







Green LED (ON)

This display indicates that power is on and that the output is delivering d/c current to the batteries.



WARNING

Red LED Green LED (OFF) (ON)

DO NOT OPERATE UNIT WHILE CHARGING.

The solution is at its proper strength when the battery is manufactured. Use distilled water and keep fluid up to proper level. When required, water should be added to battery after charging, unless water level is below the plates.

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Item	Specification	Frequency of Lubrication
Wheels	Teflon Spray	Quarterly

Components requiring adjustment

Examination, repair, replacement of limited life components With proper use, battery maintenance, and regular inspection, there are no limited life components that require routine replacement.



Charging the Battery

This unit is equipped with a deep cycle 12-volt battery. The care and maintenance of your battery has much to do with how well this unit functions. Battery wiring and water level should be checked monthly. Do not overfill. When the cells are too full, fluid will seep out when charging.

Note: The surrounding temperature greatly affects the power reserve within a battery. Example: A battery that is 100% charged at 80° F (27°C) drops to 65% at 32°F (0°C) At 0°F (-18°C), this battery will drop to 40% efficiency.

WARNING

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

- Park the machine on a level surface.
- Plug charger into AC outlet until charged. (Indicated by solid lights)
- For best battery life, leave charger plugged in until machine will be used again. The charger will maintain the battery charge.

The charger will not begin charging on severely discharged batteries.

This display indicates that power is on but there is no connection to a battery. The charger must see approximately 5 volts on a battery in order to deliver d/c current.

This display indicates that power is on and that the output is finished charging and is in a float maintenance mode.

CAUTION

NEVER ADD ACID TO BATTERY!

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

Storage

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

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.

Inspection and Regular Maintenance Checklists

CAUTION

FAILURE TO PERFORM INSPECTIONS AND PREVENTITIVE 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 required and included in this manual:

Pre-Start (Required before operation at each work shift)

Monthly Battery Maintenance

Frequent (Required at intervals not more than three months)

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, 20h per week, 5 load cycles per h).

Monthly Battery Care

THIS CHECKLIST MUST BE USED AT MONTHLY OR AFTER EVERY 100 HOURS OF USE. FAILURE TO DO SO COULD AFFECT THE SAFETY OF THE OPERATOR.

MODEL NUMBER ______ SERIAL NUMBER _____

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

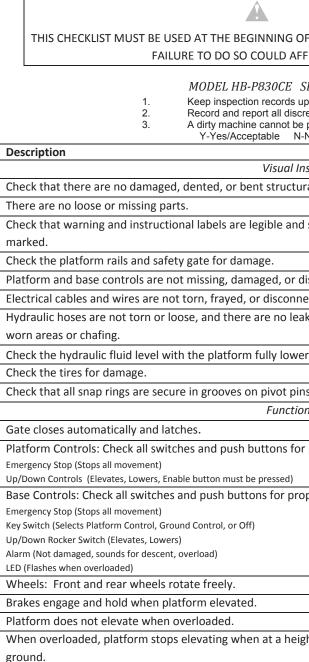
Y-Yes/Acceptable N-No/Unacceptable R-Repaired

Description

- 1. Remove battery cabinet cover.
- 2. Remove battery caps and check fluid level.
- 3. Fill each cell (if needed) to split ring with distilled water.
- 4. Reinstall caps.
- Wash all dirt, debris, acid, etc., off battery whenever corrosion is detected. Use a solution of 5. 5-tsp. baking soda per quart of warm water.
- 6. Coat terminals with a commercially available coating.

DATE _____ INSPECTED BY _____

Prestart Inspection Checklist



YNR

WARNING

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

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DATE _____ INSPECTED BY _____

Frequent 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.

MODEL NUMBER HB-P830CE SERIAL NUMBER_____

- Check each item listed below.
- Use proper operating, service, and maintenance manual for specific information and settings ٠
- 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.

Visual Inspections Perform all checks on the Pre-Start Inspection Checklist. Inspect the condition of hydraulic fluid in reservoir. Oil should have a clear amber color. Inspect the entire machine for signs of damage, broken welds, loose bolts, or improper repairs. (Check for corrosion, cracking, abrasion, etc.) Inspect the antire machine for signs of damage, broken welds, loose bolts, or improper repairs. (Check for corrosion, cracking, abrasion, etc.) Improve the entire machine for signs of damage, broken welds, loose bolts, or improper repairs. (Check for corrosion, cracking, abrasion, etc.) Improve the entire machine for signs of damage, broken welds, loose bolts, or improper repairs. (Check for corrosion, cracking, abrasion, etc.) Improve the condition of hydraulic fluid in reservoir. Check that all snap rings are secure in grooves on pivot pins. Improve the condition of the prove so on pivot pins. Improve the condition of the prove so on pivot pins. Improve the condition of the prove so on pivot pins. Improve the condition of the prove so on pivot pins. Improve the condition of the prove so on pivot pins. Improve the prove so on piv	I checks on the Pre-Start Inspection Checklist. Image: Condition of hydraulic fluid in reservoir. Oil should have a clear amber color. e condition of hydraulic fluid in reservoir. Oil should have a clear amber color. Image: Condition of hydraulic fluid in reservoir. Oil should have a clear amber color. e entire machine for signs of damage, broken welds, loose bolts, or improper repairs. (Check on, cracking, abrasion, etc.) Image: Condition of hydraulic fluid in reservoir. all snap rings are secure in grooves on pivot pins. Image: Condition of out. bubble level is in place. Image: Condition of the Present of Checklist. image: maintenance and inspection records are up to date. Image: Condition of the Present Inspection Checklist. operate smoothly. Image: Condition of the Present Inspection Checklist. Image: Condition of the Present Inspection Checklist. operate over full range of motion. Image: Condition of the Present Inspection Checklist. Image: Condition of the Present Inspection Checklist. operate over full range of motion. Image: Condition of the Present Inspection Checklist. Image: Condition of the Present Inspection Checklist. operate over full range of motion. Image: Condition of the Present Inspection Checklist. Image: Condition of the Present Inspection Checklist. operate over full range of motion. Image: Condition of the Present Inspection Checklist. Image: Condition of the Present Inspection Checklist.
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Comments:	

Pre-Delivery/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 12 MONTHS.

MODEL NUMBER: HB-P830CE SERIAL NUMBER

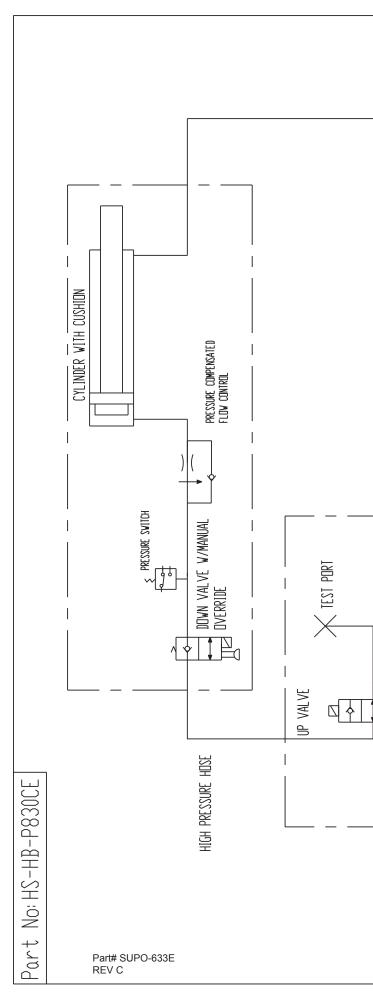
- Check each item listed below.
- Use proper operating, service, and maintenance manual for specific information and settings ٠
- If an item is found to be unacceptable make the necessary repairs and check the "repaired" box.
- When all items are "acceptable", the unit is ready for service.

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gency Stop Breaks Circuits			
gency Down Operational			
on Alarms Functional			
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e Level in Place			
overloaded, platform stops elevating			
at a height 81-94 cm from ground			
ry Charger Secure/Operational			

DATE _____ INSPECTED BY _____

DATE _____ INSPECTED BY _____

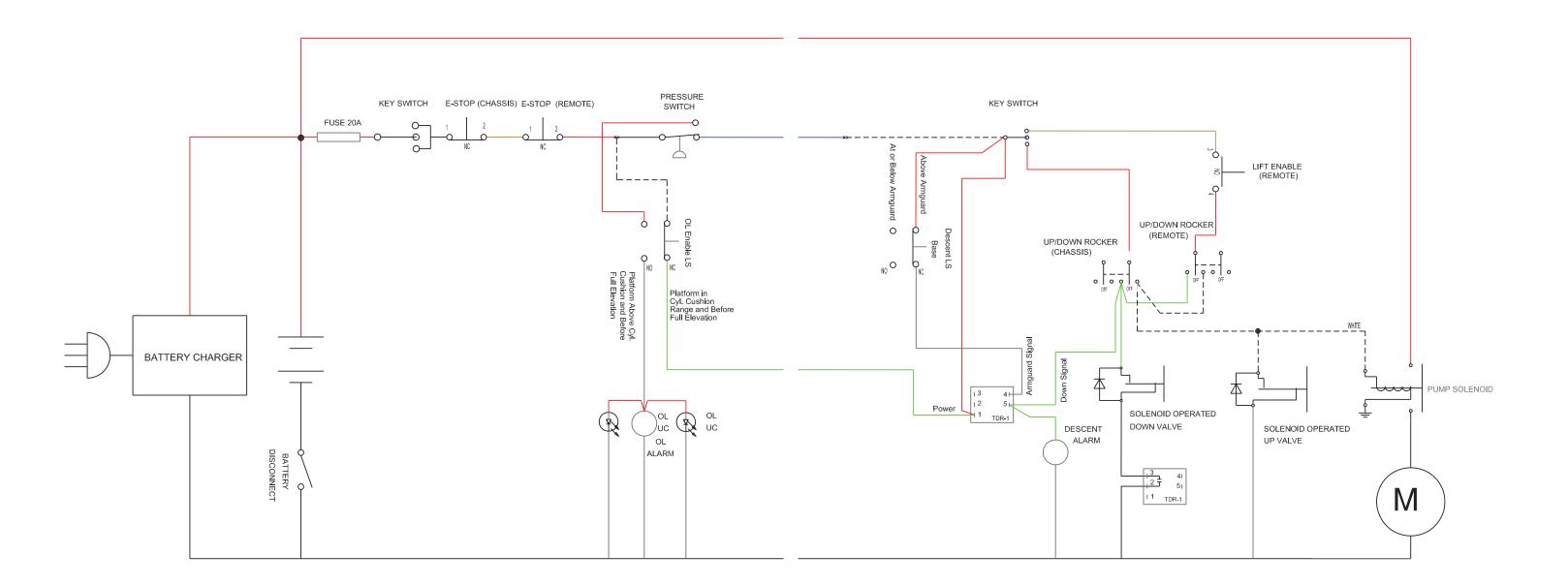
WARNING



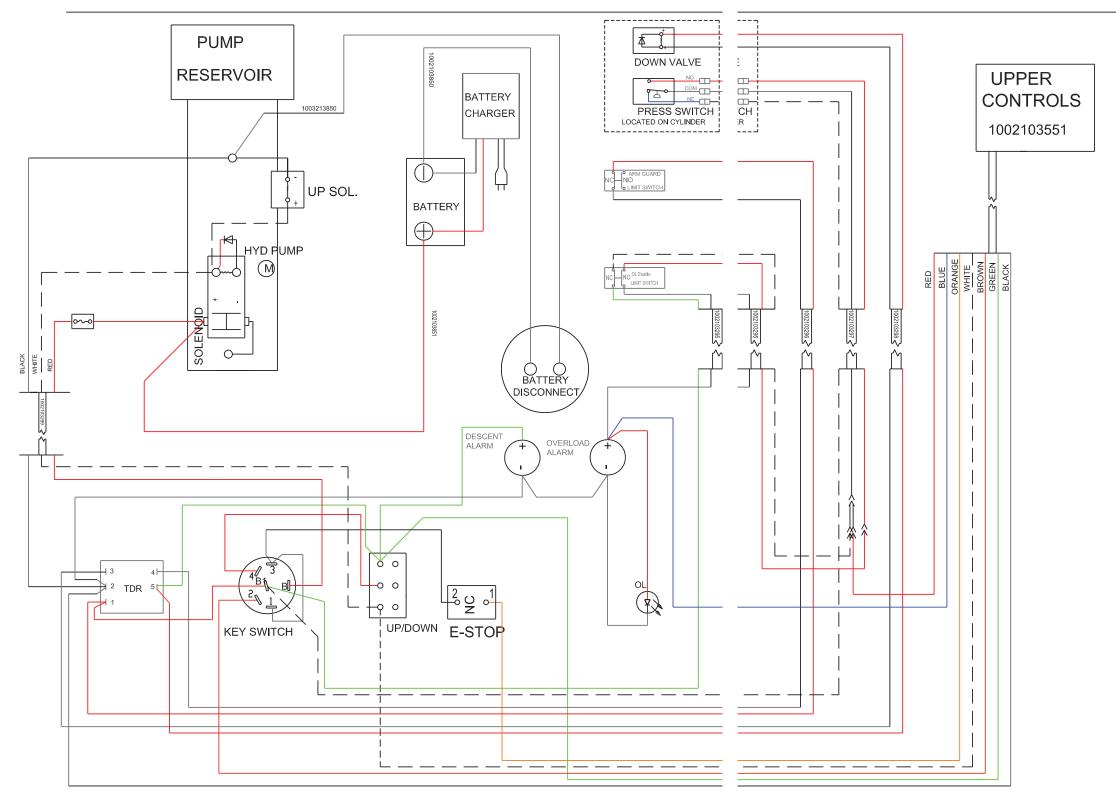
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HYDRAULIC PUMP		CYLINDER VENT HOSE	
	PUMP		
Page 1		INITIAL RELEASE	05/21/2010
5 of \$		No. Revision	Date
Welding Tolerances: .X = : Machining Tolerances: .X =	± .060 .XX = ± .030 .XXX = ± .010 ± .030 .XX = ± .015 .XXX = ± .005	Custom Equipment, Inc.	West Bend, WI 53095
Part No: HS-HB-P830CE)CE DD NDT SCALE HB-P830CE)CE Date: 5/3/10 A-Size	Hydraulic Schematic HS-HB-P830CE	HB-P830CE

Electrical Schematic: HB-P830CE, Revision A



Wiring Diagram, Lower Control: HB-P830CE Revision A



Part# SUPO-633E REV C

 7-CONDUCTOR WIRE FROM UPPER CONTROL:

 E-STOP
 ORANGE

 24V+ POWER
 RED

 PUMP SOLENOID, PUMP UP, UP/DOWN
 WHITE

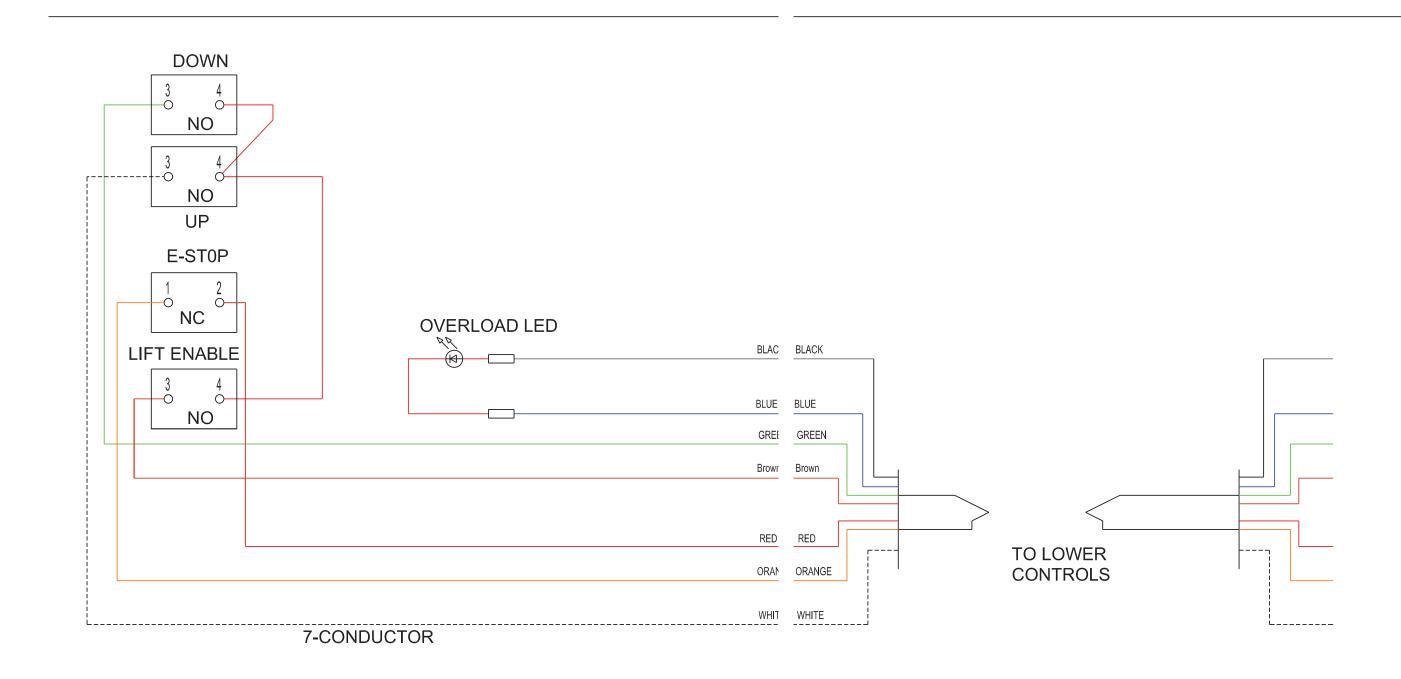
 PUMP DOWN, UP/DOWN, DESCENT ALARM
 GREEN ---

 PLATFORM MODE
 BROWN

 BATTERY NEG.
 BLACK

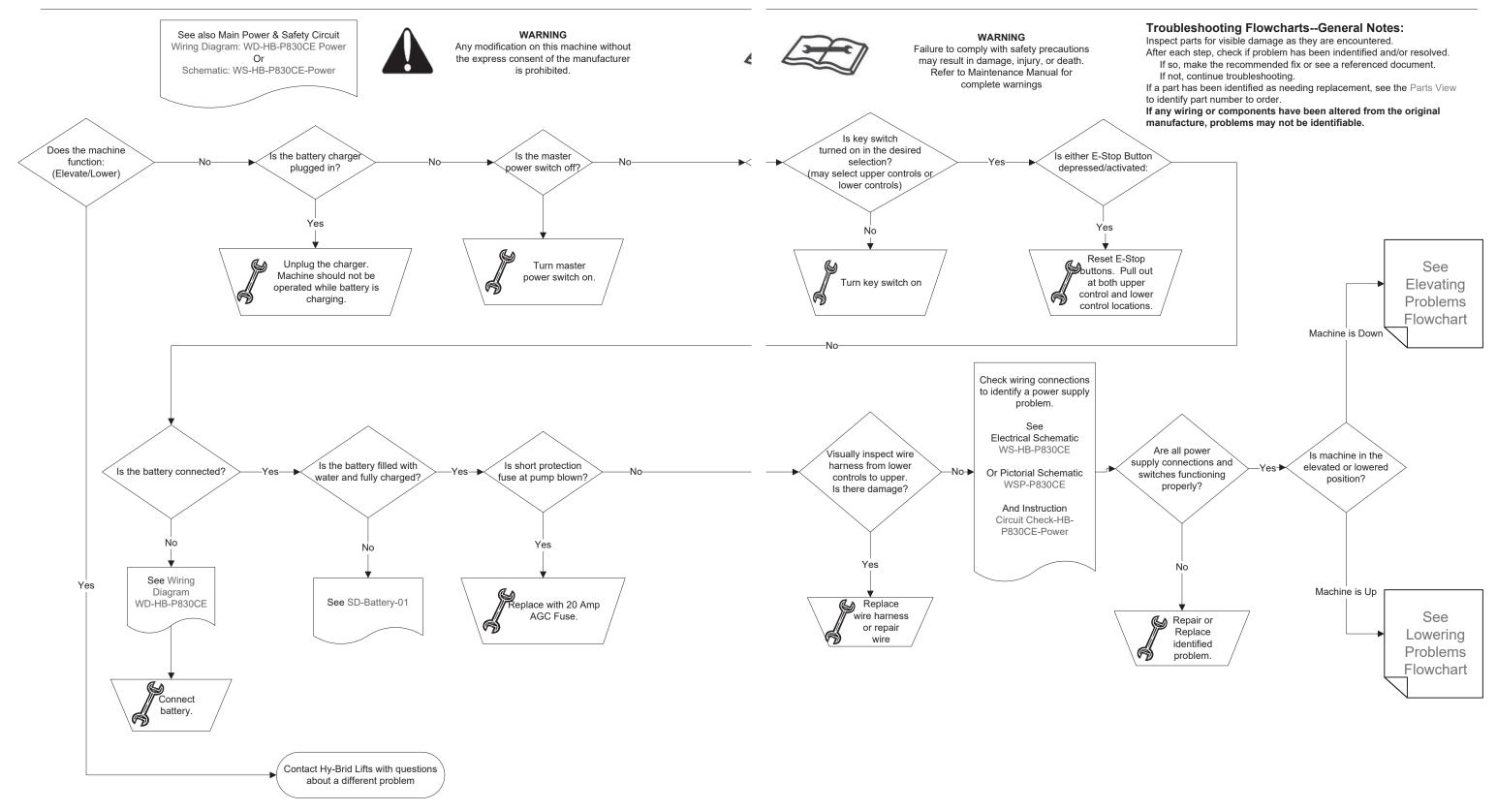
 PUMP DOWN, DOWN SW, DOWN ALARM
 GREEN

Wiring Diagram, Upper Control: HB-P830CE > E REV B



Flowchart: HB-P830CE-Power

Troubleshooting Step 1: Main Power



Reference Revision B

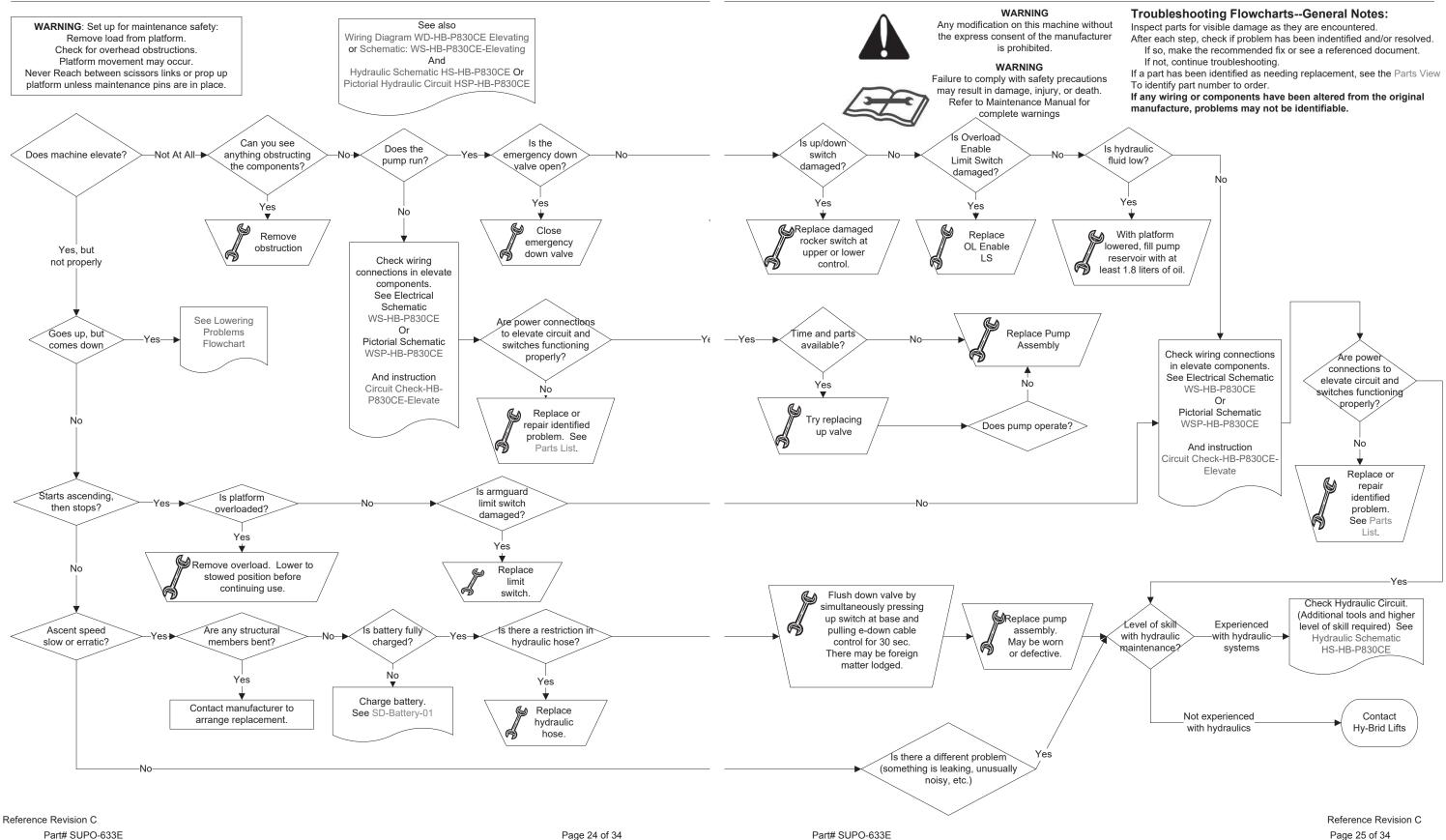
Part# SUPO-633E REV C

Reference Revision B

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Flowchart-HB-P830CE-Elevating

Troubleshooting Step 2A: Elevating



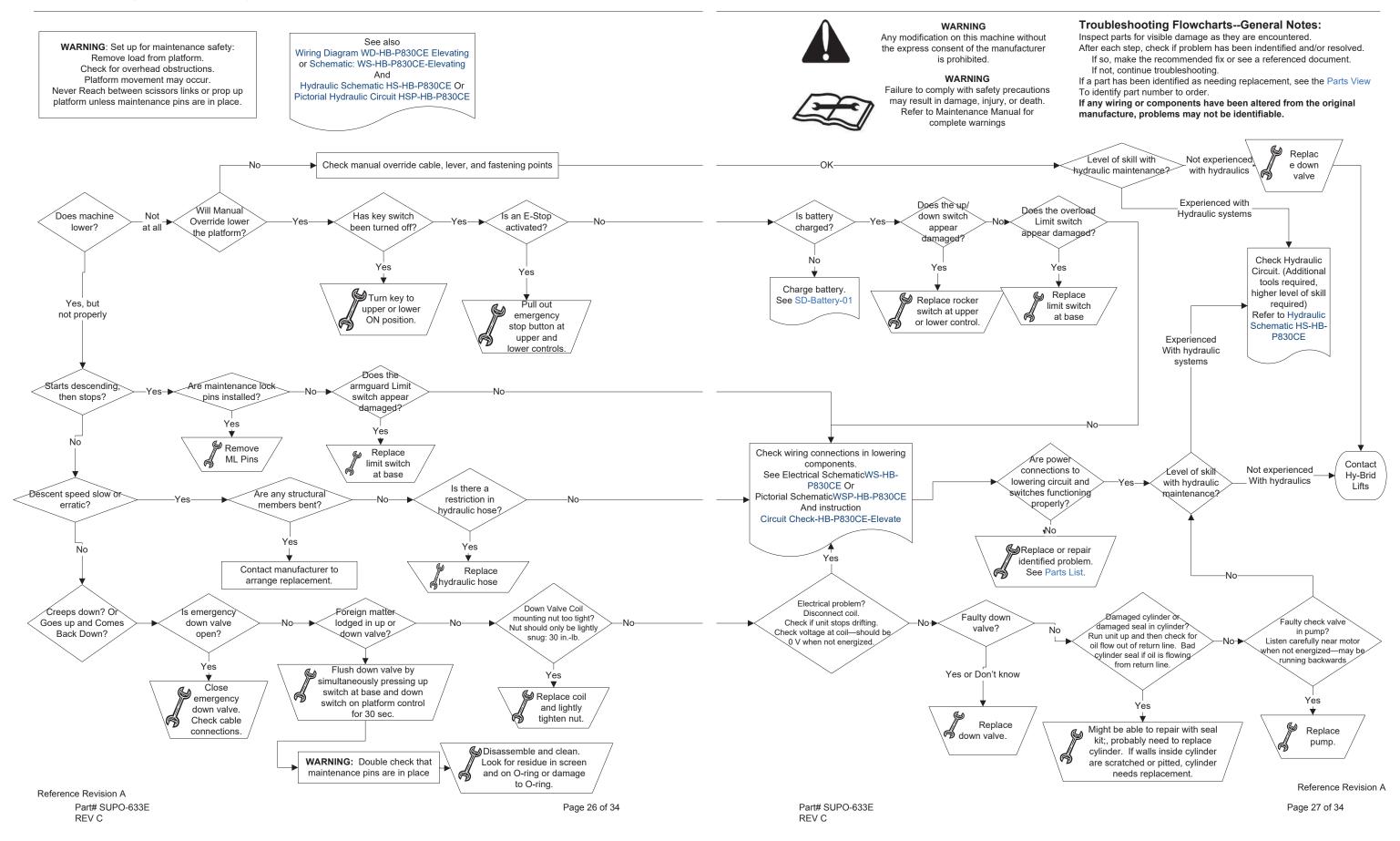
Part# SUPO-633E REV C

REV C

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Flowchart: HB-P830CE-Lowering

Troubleshooting Step 2B: Lowering



Replacement Parts

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

DANGER

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

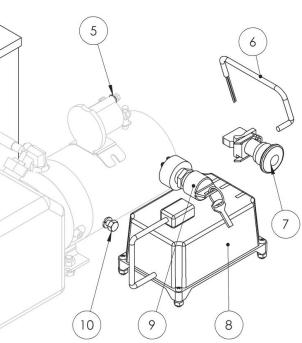
Listed below are replacement parts that may be available and listed for reference. These represent current revisions. Refer to our website, <u>www.hybridlifts.com</u> for more complete part listings and earlier revisions. Several parts are model, serial number, or manufacture date specific. Contact your dealer for replacement part availability and pricing.

Safety and Control Decals

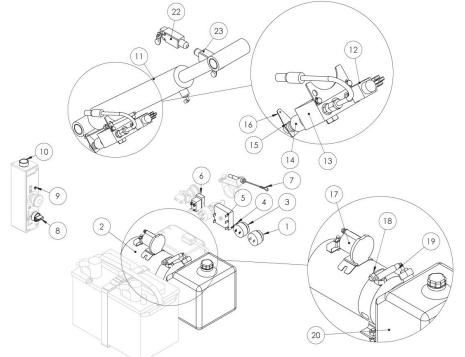
Refer to Operator's Manual for decal part numbers and locations

Main Power/Safety Circuit

Item #	Part #	Description
1	(ELEC-047)	Not available as a replacement part. Replace battery with 12V,
		Group 27 Deep Cycle Marine Battery. Replacement weight
		must be minimum 50 lb.
2	1002103551-KIT	Upper Control Assembly
3	ELEC-071-KIT	Emergency Stop Button with Contact Block
4	ELEC-633-1	Battery Disconnect Lever
4	ELEC-633-KIT	Master Power Switch
5	NA	B+ Power Connection Location on Pump
6	ELEC-639-5	Charger Cord (Bare Wire/IEC-320 C-13)
7	ELEC-071-KIT	Emergency Stop Button with Contact Block
8	ELEC-746	Battery Charger
9	ELEC-073E	Key Switch
9	ELEC-073E-KEY	Spare Key
10	NA	B-"Ground" Connection Location on Pump
(Not Pictured)	1002103850	Battery Cables
	1002103851	
(Not Pictured)	ELEC-670-2	20A AGC Fuse

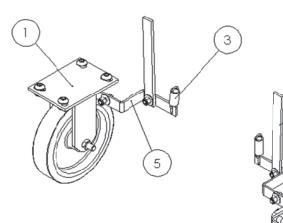


Elevate/Lower Circuit Parts



ltem #	Part #	Description
1	ELEC-635	Descent Alarm
2	HYDR-050-7	Hydraulic Pump
3	ELEC-635-1	Overload Alarm
4	ELEC-636	Overload Indicator Light
5	ELEC-632	Time Delay Relay
6	ELEC-133B	Rocker Switch
7	HARD-644-03	Emergency Down Cable
8	ELEC-002A-KIT	Up/Down Rotary Switch
9	ELEC-636	Overload Indicator Light
10	ELEC-602-KIT	Enable Button
11	1002103651-KIT	Hydraulic Cylinder
12	HYDR-671	Pressure Switch
13	1002103691	Manifold Block Assembly
(Not Pictured)	HYDR-044-FL3	Hirschmann Connector with Diode
14	HYDR-007-2F	Down Valve & Coil
14	HYDR-007-2E-5	Down Valve
14	HYDR-007-2E-6	Down Valve Coil (12V)
15	HARD-650	1/16 Shaft Collar
16	LAS-M115	Emergency Down Lever
(Not Labeled)	HYDR-600-5	Hydraulic Hose
17	HYDR-674	Start Solenoid (12 V)
18	HYDR-677	Hydraulic Fitting
19	HYDR-022-3	Low Pressure Hydraulic Line
20	(HYDR-032)	Hydraulic Fluid: Not available as a replacement part. Replace with Flomite
		#150, Dexron II, Mobil-DTE 2, or equivalent.
21	HYDR-665	Up Valve
21	HYDR-673	Up Valve Coil
22	ELEC-123-5	Armguard Switch
23	ELEC-123-5	Overload Switch
(Not Pictured)	HARD-022	Retaining Ring, 1.25"

Wheels/Brakes

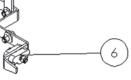


Item #	Part #	Description
1	1002103160	Rigid Caster Assembly
1	WHEE-706-KIT	Wheel (8")
1	WHEE-002-1	Bearing Kit
2	1002103161	Swivel Caster Assembly
2	WHEE-706	Wheel (8")
2	WHEE-002-1	Bearing Kit
3	HARD-687	Spring
4	1000116002	Brake Actuator
5	1000132402	Brake Weldment
6	143-01-028-02	Brake Cam

2

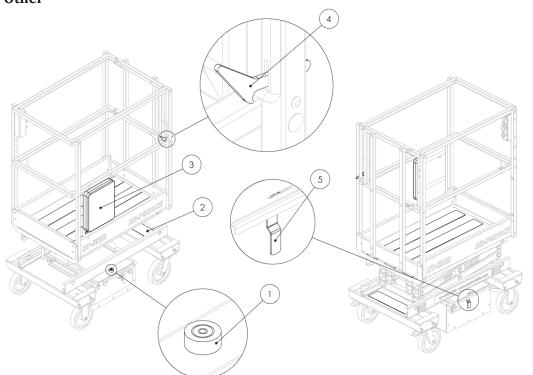






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Other



Item #	Part #	Description
1	HARD-086	Level
2	MISC-031	Anti-Slip Tape
3	HARD-603	Manual Box
4	1000307601	Gate Latch
5	1000132101	Cabinet Latch

Warranty

- 1. Equipment, Inc. (the "Company") warrants to the first end-user ("Buyer") that:
 - (a) use and maintenance; and
 - (b) use and maintenance.

2. Warranty:

- (a) contact information shown on the battery;
- (b) Damage or loss resulting from or caused by carrier handling; (c)
- use or use with incompatible equipment or software; (d) after discovery of defective or worn parts;
- (e) writing by the Company;
- (f)
- (g)

3.

LIMITED PRODUCT WARRANTY

Limited Warranties. Subject to the terms, conditions and limitations set forth herein, Custom

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

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

Exclusions / What Is Not Covered. The following items are NOT covered under this Limited

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

Damage or loss resulting from or caused by normal wear and tear, weathering, lack of

Damage resulting from or caused by improper maintenance, improper handling or storage, improper use, abuse, neglect, operation beyond rated capacity, or operation

Any part, component or assembly altered or modified in any way not approved in

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.

- 4. Exclusive Repair or Replace Warranty Remedy. 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.
- 5. 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.
- 6. <u>Limitation of Liability</u>. 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.