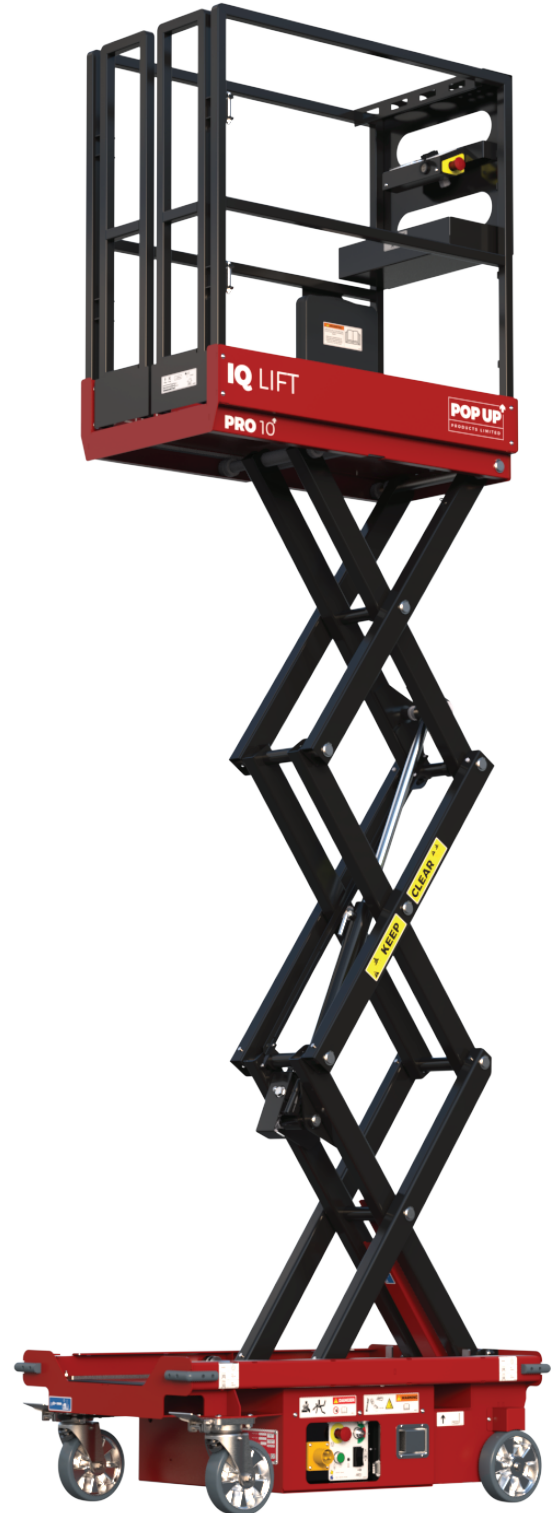


IQ LIFT



PRO 10[↑]

SN: E21-20001+

IQ2.0-M
REV A



+44 (0)1244 833 933



info@popupproducts.co.uk



popupproducts.co.uk

FOREWORD

Original instructions are written in English.

The purpose of this Maintenance & Troubleshooting Handbook is to provide qualified service personnel with information for servicing and maintaining the Mobile Elevating Work Platform. All information in this handbook must be read and understood before any attempt is made to service this machine.

The Operation & Safety Handbook is considered a part of the work platform and contains instructions and operating procedures essential to properly and safely operate the Mobile Elevating Work Platform. Users must read and understand all information in the Operation & Safety Handbook before operation.



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

- The user/operator should not accept operating responsibility until the handbook has been read and understood as well as having operated the MEWP 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.



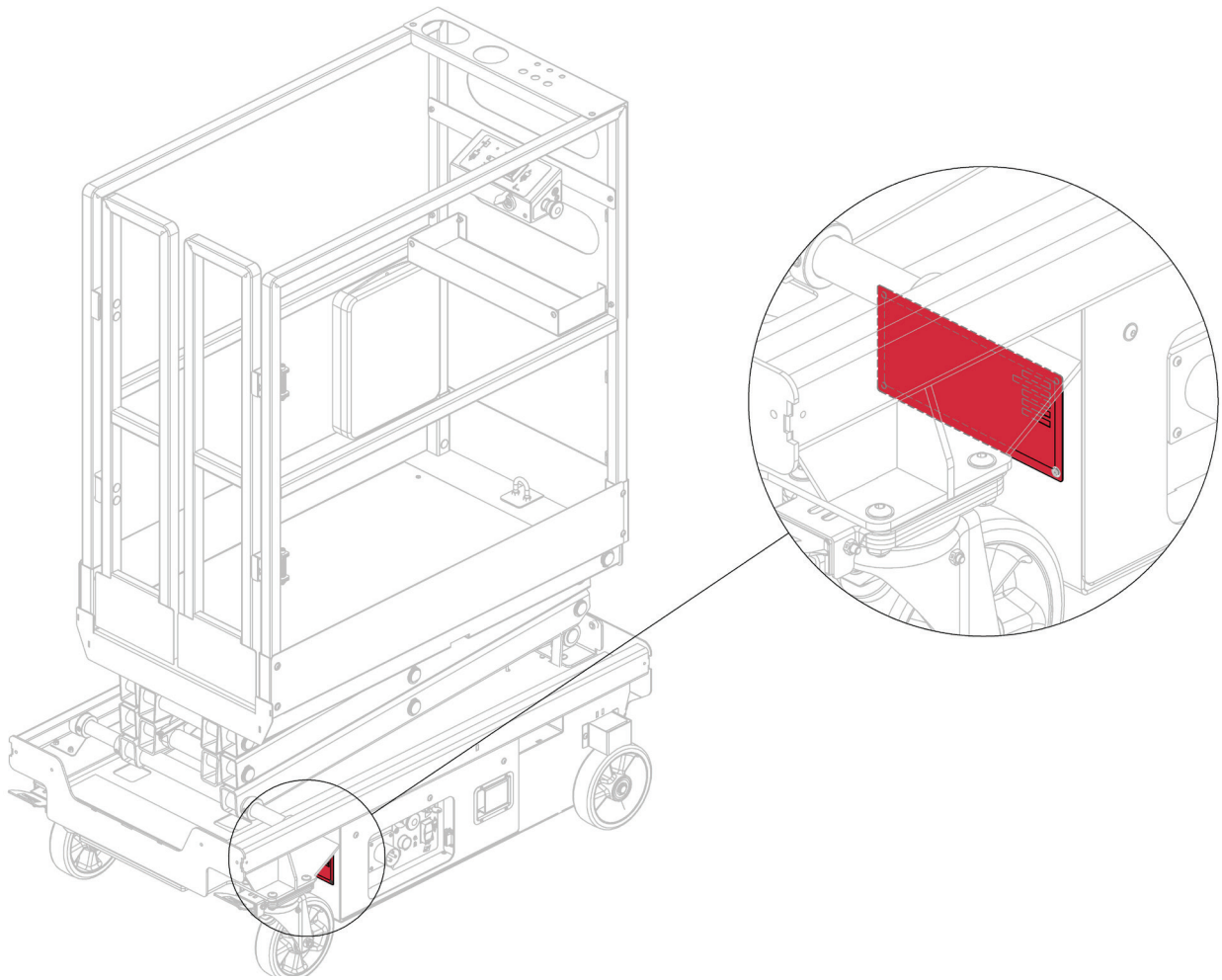
**ANY MODIFICATION OF THIS MACHINE WITHOUT THE EXPRESS
WRITTEN CONSENT OF THE MANUFACTURER IS PROHIBITED.**

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

Pop Up Products Limited
Unit E1, Tenth Avenue
Deeside Industrial Park
Deeside
Flintshire CH5 2UA

Tel. +44(0) 1244 833 933

E-mail - support@popupproducts.co.uk
Website - popupproducts.co.uk

Serial Number Location

When contacting Pop Up Products for service or parts information, be sure to include the MODEL and SERIAL NUMBER. The serial number plate is located in the rear right wheel well. Should the nameplate be missing, there is an additional serial number label located inside the chassis.

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SECTION 1 | SAFETY

1.1 | SAFETY SYMBOLS

Warnings and instructions that have a direct impact on safety are identified with the following signals:



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

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



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

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



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

“CAUTION” indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate 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. It is the responsibility of the owner to instruct operators with the safety requirements made not only in this handbook, but by the various safety bodies in your area, as well as additional requirements set forth by relevant MEWP 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.



NEVER REACH BETWEEN SCISSORS LINKS OR PROP UP PLATFORM.

Maintenance Lock

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

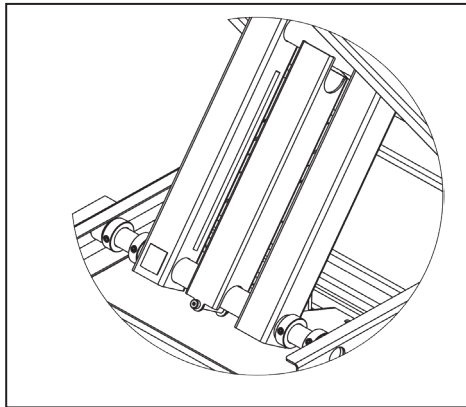


FIGURE 1: Maintenance Lock Stowed

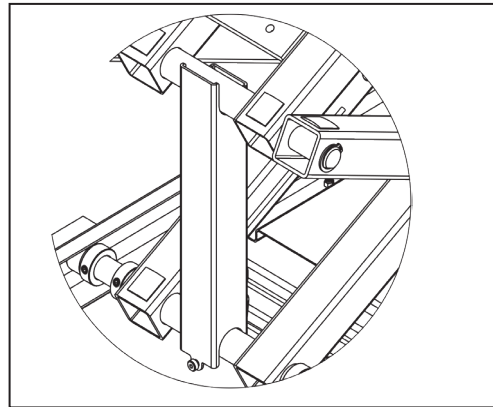


FIGURE 2: Maintenance Lock In Use



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

Other Guidelines

ALWAYS	observe and obey all warnings and cautions on machine and in handbook.
ALWAYS	shut off all power controls before making any adjustments, lubricating or performing any other maintenance.
ALWAYS	disconnect battery during replacement of electrical components.
ALWAYS	remove all rings, watches, and jewelry when performing any maintenance.
ALWAYS	keep oil, grease, water, etc. wiped from standing surfaces and handholds.
ALWAYS	keep all support equipment and attachments stowed in their proper place.
ALWAYS	use only approved nonflammable cleaning solvents.
NEVER	work under an elevated platform until maintenance locks have been engaged.
NEVER	wear long hair unrestrained or loose fitting clothing and neckties which may become caught on or entangled in equipment.

After maintenance, inspect the machine as described in the Pre-Delivery Inspection Checklist.

SECTION 2 | MAINTENANCE

2.1 | CHARGING THE BATTERY

This unit is equipped with either a deep cycle 12-volt AGM maintenance-free battery or a deep cycle Group 24 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.



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

To charge the battery:

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



DO NOT OPERATE UNIT WHILE CHARGING.



NEVER ADD ACID TO BATTERY!

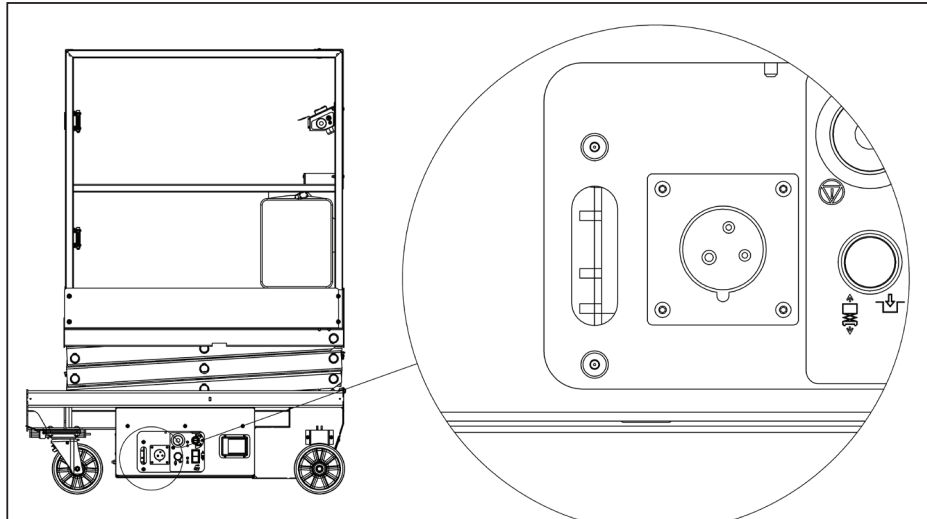











FIGURE 3: Battery Charge Location

Battery Charge Light Display

POWER	BATTERY 1 STATUS	<p>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.</p>
	CHARGING READY	
	 	
Green LED (ON)	Red LED (OFF) Green LED (ON)	
POWER	BATTERY 1 STATUS	<p>This display indicates that power is on and that both outputs are delivering D/C current to the batteries.</p>
	CHARGING READY	
	 	
Green LED (ON)	Red LED (ON) Green LED (OFF)	
POWER	BATTERY 1 STATUS	<p>This display indicates that power is on and that the output is finished charging and is in a float maintenance model.</p>
	CHARGING READY	
	 	
Green LED (ON)	Red LED (OFF) Green LED (ON)	

2.2 | BATTERY MAINTENANCE AGM BATTERIES

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 runtimes above the rated capacity and operating batteries below 27°C will yield runtimes 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.

2.3 | BATTERY MAINTENANCE WET CELL BATTERIES

If this unit is equipped with a deep cycle 12-volt Group 24 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.

- 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 ml baking soda per 0.95 liters of warm water.
- Coat terminals with a commercially available coating.
- Close cabinet and latch in place.

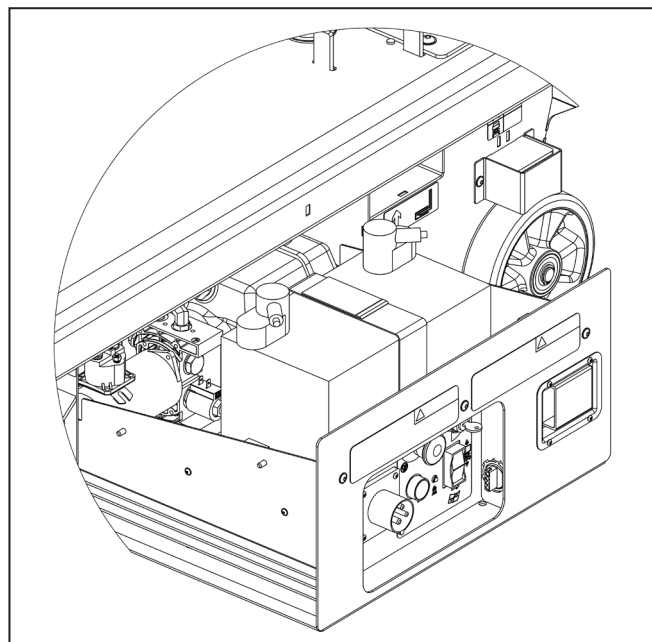


FIGURE 4: Battery Location

2.4 | LUBRICATION

Item	Specification	Frequency of Lubrication
Cylinder	Standard machine grease	Monthly

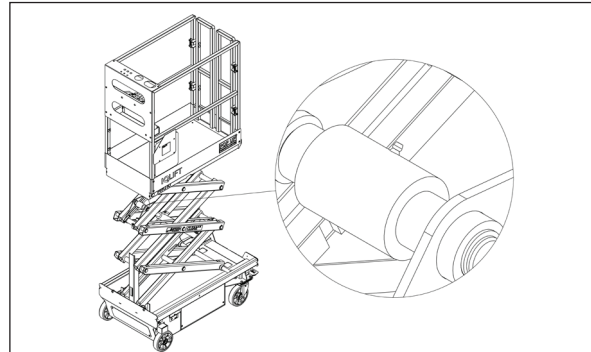


FIGURE 5: Cylinder Grease Points

2.5 | COMPONENTS REQUIRING ADJUSTMENT

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

2.6 | 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.

2.7 | SAFETY DEVICES AND SYSTEMS REQUIRING CHECKS

Check safety functions as part of daily inspection:

Refer to the Pre-Start Inspection Checklist included in this and in the Operations & Safety Handbook.

- Emergency Stop
- Enable Buttons
- Emergency Lowering
- Automatic Brakes
- Tilt Interlock

Check that the machine will not elevate if overloaded as part of routine inspection. (Refer to the Pre-delivery/Annual Checklist included in this handbook.)

2.8 | 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 this handbook.

2.9 | 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.



SECTION 3 | INSPECTION

3.1 | INSPECTION & MAINTENANCE SCHEDULE

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.

Frequency and extent of periodic examinations may depend on national regulations.

Inspection/Maintenance	Frequency
Pre-Start Inspection	Daily
Battery (Wet Cell Batteries Only)	Monthly
Cylinder Lubrication	Monthly
Check Hydraulic Fluid Level	Monthly
Pre-Delivery Inspection	Annually (or as needed)
Contact the manufacturer for additional information	After major alterations or repairs which affect stability, strength or performance.



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.

The following inspection checklists are required and included in this handbook:

- Pre-Start (Required before operation at each work shift)
- Pre-Delivery/Annual (Required at intervals not more than twelve months. This checklist may also be used when a Frequent (every 3 months) Inspection is needed, or after periods of storage.

MAINTENANCE ACCESS

The control tray can be opened for routine inspection (checking hydraulic fluid level, batteries, etc.). If additional access is needed, the side panel may be removed.

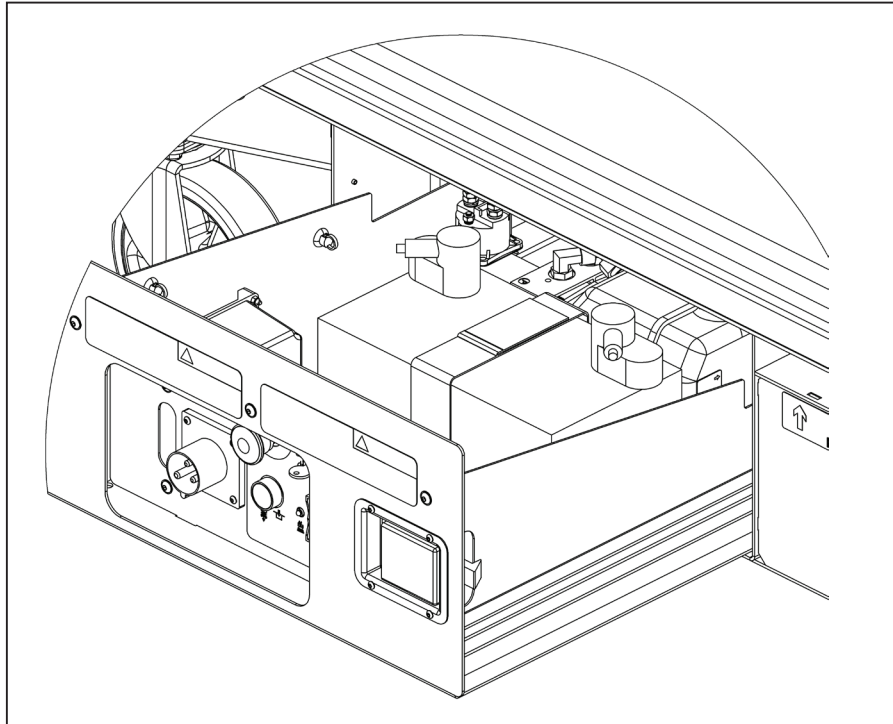


FIGURE 6: Control Tray Access

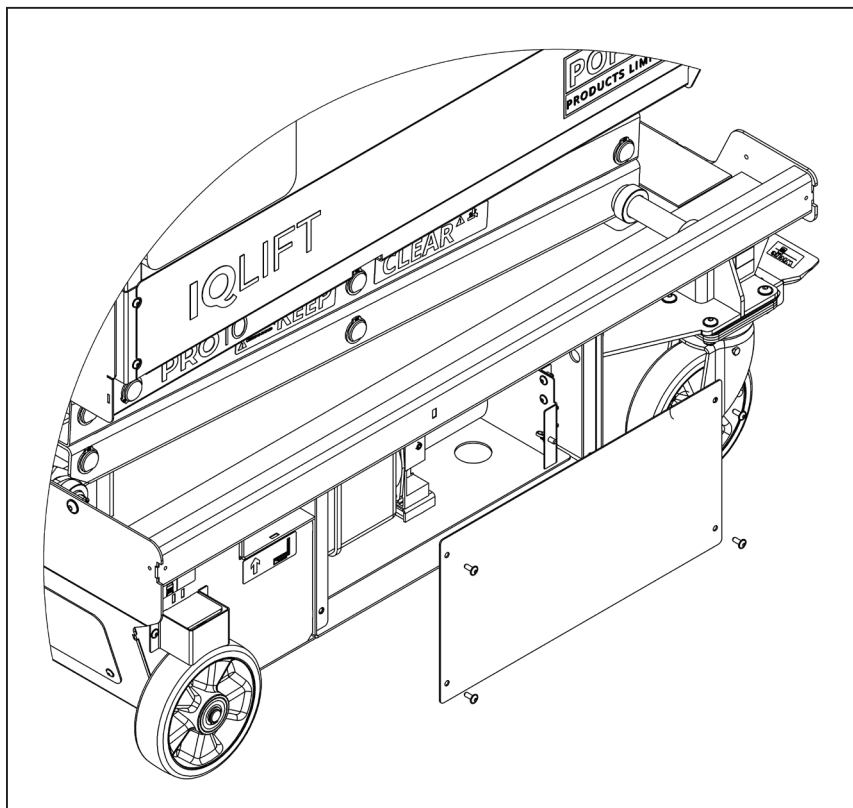


FIGURE 7: Side Access

SECTION 3 | INSPECTION

3.2 | INSPECTION CHECKLIST: PRE-DELIVERY/ANNUAL/FREQUENT



MOBILE ELEVATING WORK PLATFORMS SHALL BE INSPECTED, SERVICED, AND ADJUSTED TO MANUFACTURER'S REQUIREMENTS BY A QUALIFIED MECHANIC PRIOR TO EACH SALE, LEASE, OR RENTAL, AND ANNUALLY, OR AS REQUIRED BY NATIONAL REGULATIONS.

Model: _____ Serial Number: _____

- Check each item listed below.
- Use proper operating, service, and maintenance handbook 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	N	R	PLATFORM:	Y	N	R
Overall visual check: no deterioration (corrosion, cracking, abrasion, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Overall visual check: no deterioration (corrosion, cracking, abrasion, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inspect slide tracks for damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All rails in place/secure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wheels: Bolts/Nuts Tight	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No bent rails	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pump Secure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No broken welds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Battery Hold Downs Secure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Entrance gate closes freely	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Battery Fully Charged Check battery Voltage: <12.5V, charge.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Anchorage point and the supporting platform floor are secure and not deformed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic Oil Level	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cables in place/secure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Check all hydraulic hoses for leaks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	FUNCTIONS:	Y	N	R
Check all hydraulic fittings for leaks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Elevate/Lower Operational (Upper & Lower Ctl)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Front and Rear wheels rotate freely	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Key Switch Breaks Circuits	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Automatic Brakes: Operational	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Emergency Stop Breaks Circuits (Upper & Lower Ctl)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parking Brakes: Operational	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Emergency Down Operational	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inspect Springs & Sensor Behind Cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Motion Alarms Functional	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All Shields/Guards in place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	When beginning to elevate, overload light and alarm activate. Then, if not overloaded, allows elevation to continue, and light and alarm stop.			
SCISSORS	Y	N	R	When overloaded more than 120% of the rated capacity, platform stops elevating.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall visual check: no deterioration (corrosion, cracking, abrasion, etc.),	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OTHER:	Y	N	R
No Broken Welds or Bent Beam Members	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Switches & contact blocks secure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ret. Rings Secure on Pivots	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tight on terminals (no loose wiring)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maintenance Lock: In storage location	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Battery Charger Secure / Operational	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All rollers turn freely	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Decals Legible & Properly Placed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				Correct capacity noted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				Operator / Service Handbook Included	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMMENTS:

Date: _____ Inspected by: _____

PLEASE DUPLICATE THIS PAGE AS NEEDED FOR YOUR OWN USE.



3.3 | INSPECTION CHECKLIST: PRE-START

Pre-start Inspection (Push-Around Models)



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.

Model: _____ 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	Y	N	R
VISUAL INSPECTIONS			
Check that there are no damaged, dented, or bent structural members	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
There are no loose or missing parts.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Check that warning and instructional labels are legible and secure.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Check the platform rails and safety gate for damage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Check that platform floor is clean to prevent slip, fall hazards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Platform and base controls are not missing, damaged, frayed, or disconnected.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic hoses are not torn or loose, and there are no leaks. Check that hoses and cables have no worn areas or chafing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Check the tyres for damage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Check that all snap rings are secure in grooves on pivot pins.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FUNCTIONAL TESTS			
Gate closes automatically	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Platform Controls: Check all switches and push buttons for proper operation.			
Emergency Stop (Stops all movement)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Up/Down Controls (Elevates, Lowers, Enable button must be pressed).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Base Controls: Check all switches and push buttons for proper operation.			
Emergency Stop (Stops all movement)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Key Switch (Selects Platform Control, Ground Control, or Off).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Alarm (Not damaged, sounds for descent).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Up/Down Rocker Switch (Elevates/Lowers, Enable button must be pressed).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lowering Delay (Delay when lowering, re-activate descent switch to continue)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Emergency Lowering functions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Machine will not elevate when on a slope greater than 1.5°	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wheels: Front and rear wheels rotate freely.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Automatic brakes engage and hold when platform is elevated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parking Brakes (Swivel Castors) engage and hold	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMMENTS:

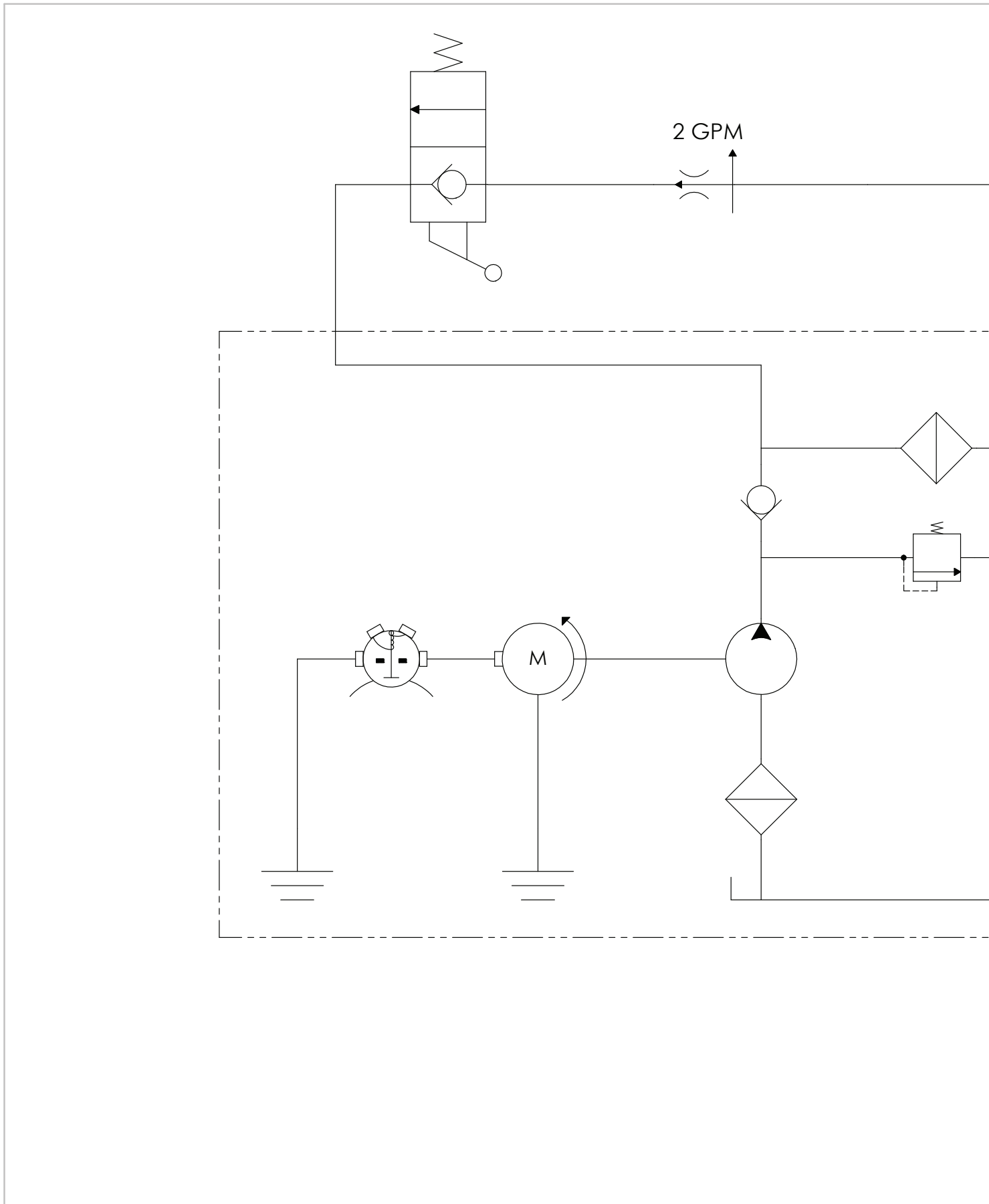
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PLEASE DUPLICATE THIS PAGE AS NEEDED FOR YOUR OWN USE.

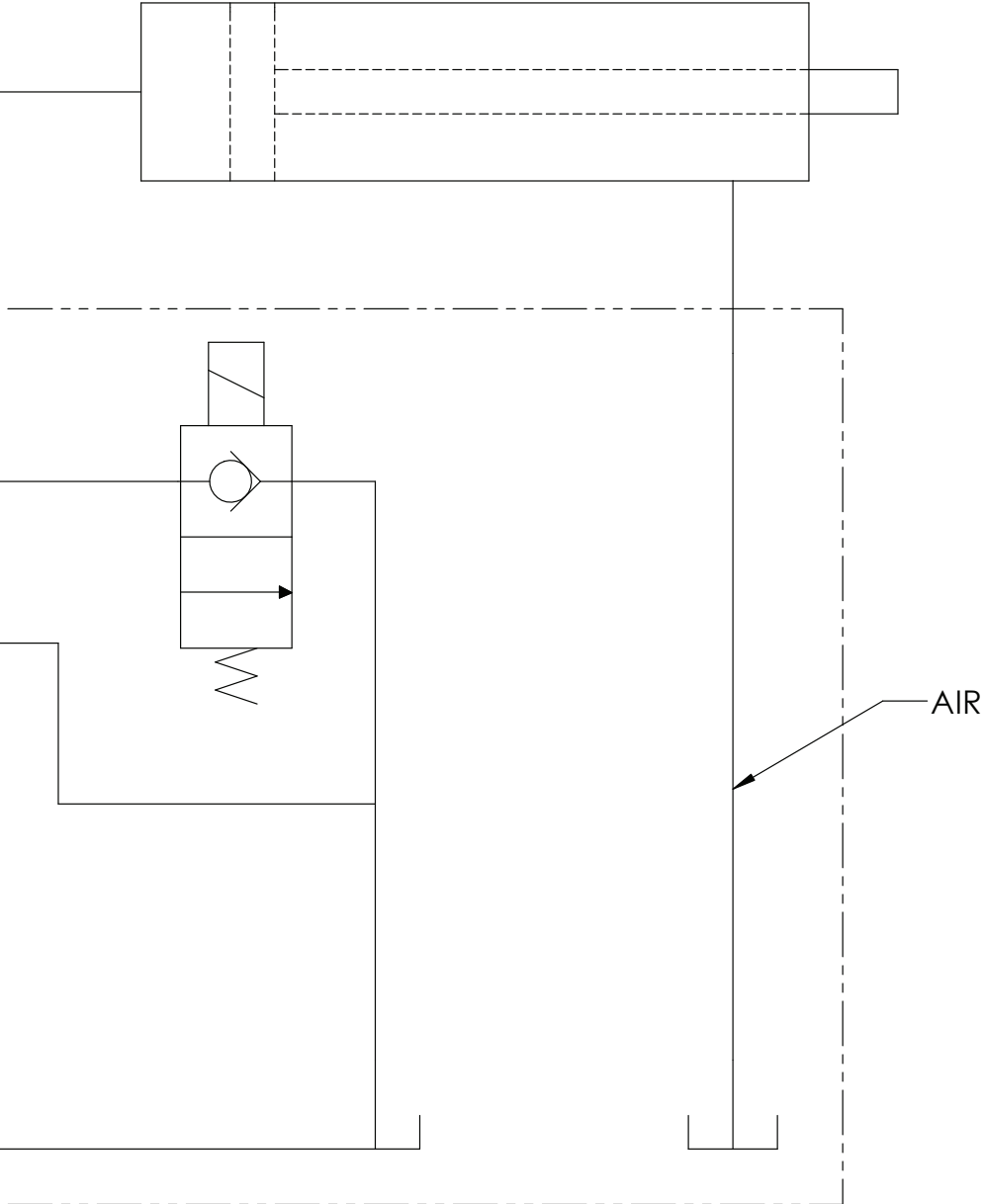



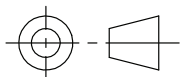
SECTION 4 | TECHNICAL REFERENCES

4.1 | HYDRAULIC SCHEMATIC



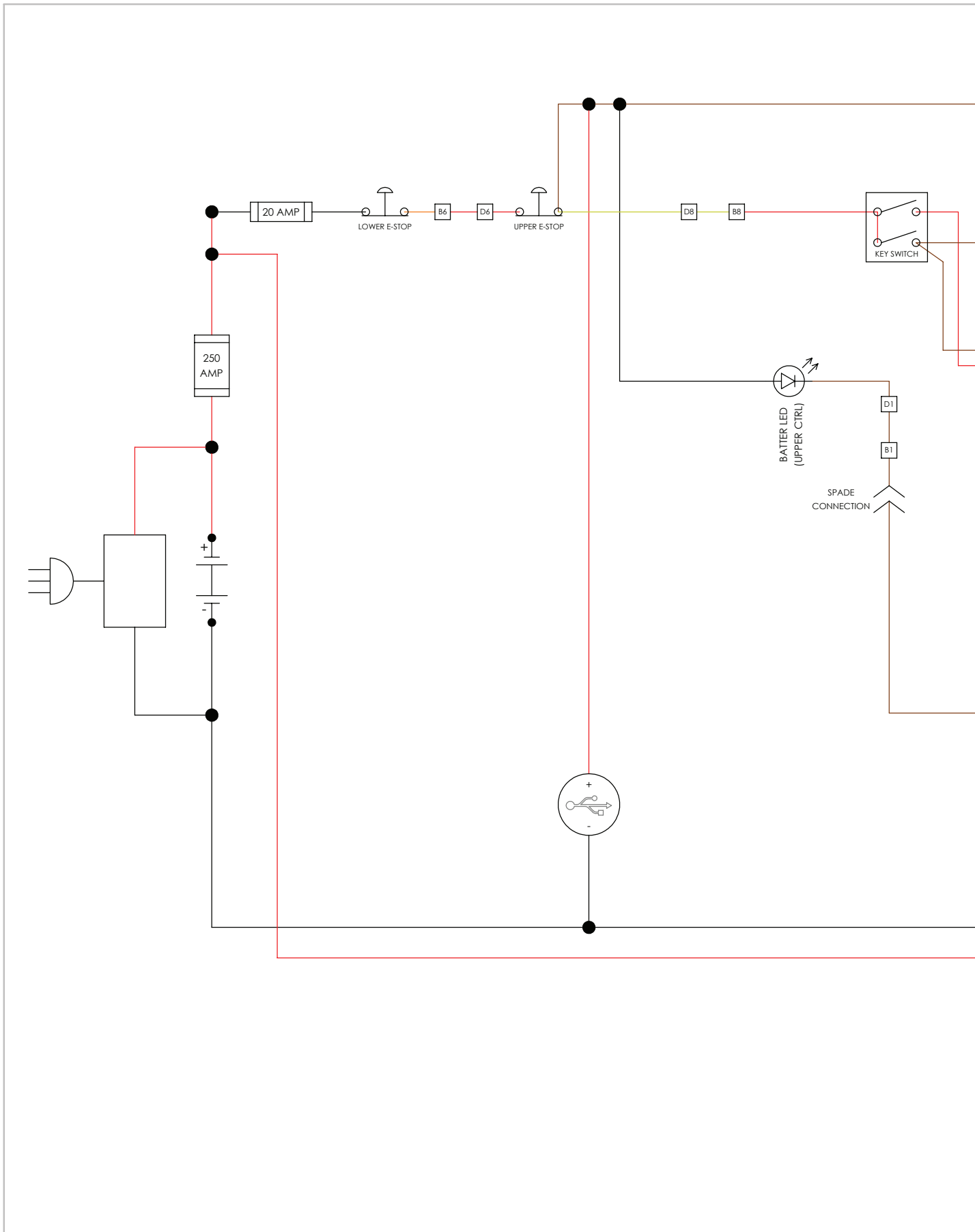
REVISION HISTORY				
REV	ECO #	DESCRIPTION OF CHANGE	DATE	REV BY
A			07/21/2020	



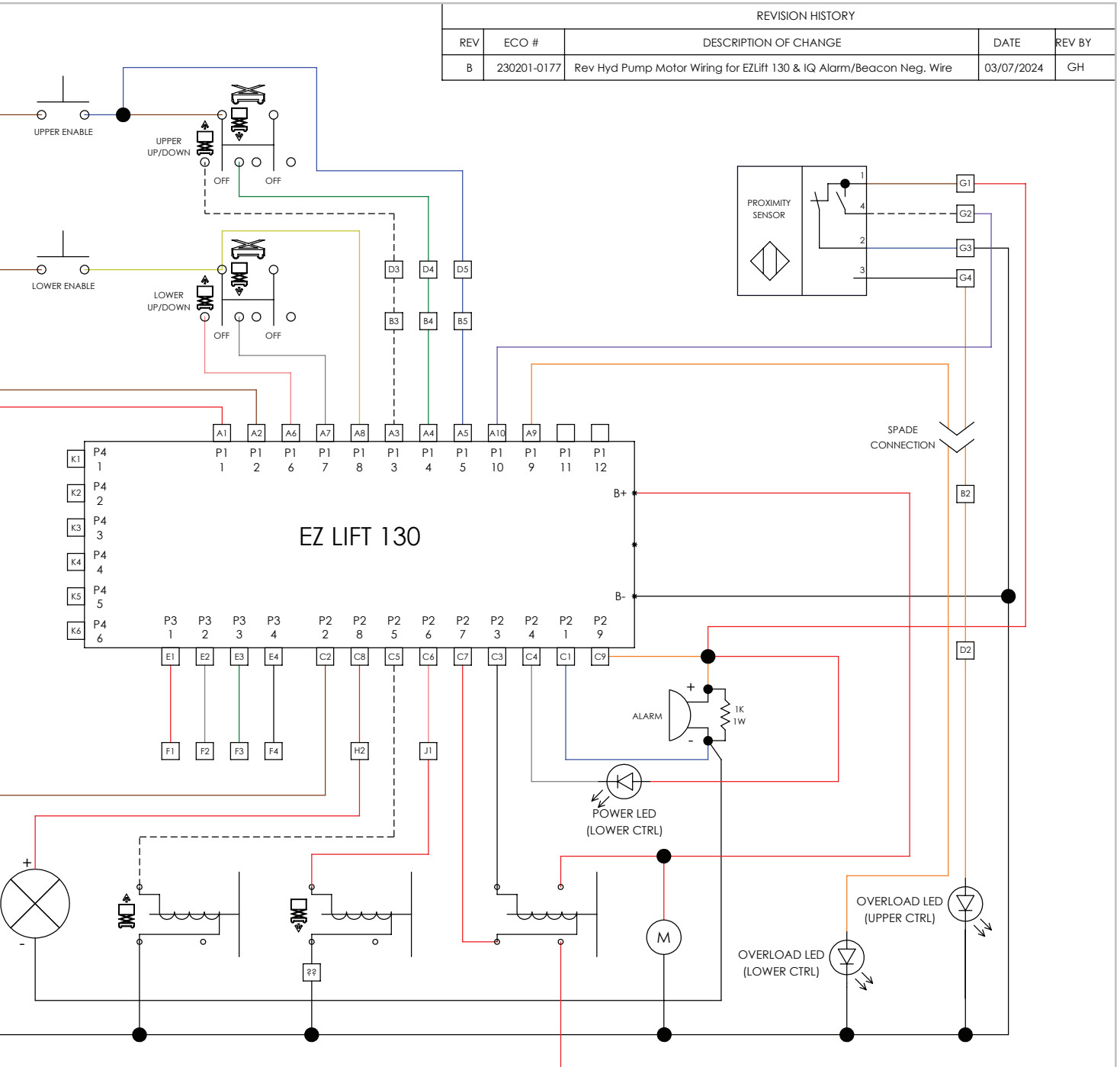
CONFIGURATIONS -51: GENERAL ASSEMBLY; POP UP -56: GENERAL ASSEMBLY; HYBRID		NAME	DATE	 PRO IQ
	DRAWN	T.VUE	06/08/2020	
	APPROVED	T.VUE	07/21/2020	
	DO NOT SCALE DRAWING			
	THIRD ANGLE PROJECTION			
		DESCRIPTION HYDRAULIC SCHEMATIC 1030		
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CUSTOM EQUIPMENT AND IS LOANED IN EXPECTATION THAT IT WILL BE KEPT CONFIDENTIAL. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CUSTOM EQUIPMENT IS PROHIBITED.		SIZE B	DWG NO. HS-177-20-101	REV A
SCALE		1:1	WEIGHT (LBS.)	N/A
			SHEET	1 OF 2



4.2 | ELECTRICAL SCHEMATIC



SECTION 4 | TECHNICAL REFERENCES



REVISION HISTORY				
REV	ECO #	DESCRIPTION OF CHANGE	DATE	REV BY
B	230201-0177	Rev Hyd Pump Motor Wiring for EZLift 130 & IQ Alarm/Beacon Neg. Wire	03/07/2024	GH

CONFIGURATIONS
-56: GENERAL ASSEMBLY, HYBRID
-51: GENERAL ASSEMBLY, POP UP

	NAME	DATE
DRAWN	T.VUE	05/13/2020
APPROVED		03/07/2024
DO NOT SCALE DRAWING		
THIRD ANGLE PROJECTION		
<small>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CUSTOM EQUIPMENT AND IS LOANED IN EXPECTATION THAT IT WILL BE KEPT CONFIDENTIAL. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CUSTOM EQUIPMENT IS PROHIBITED.</small>		



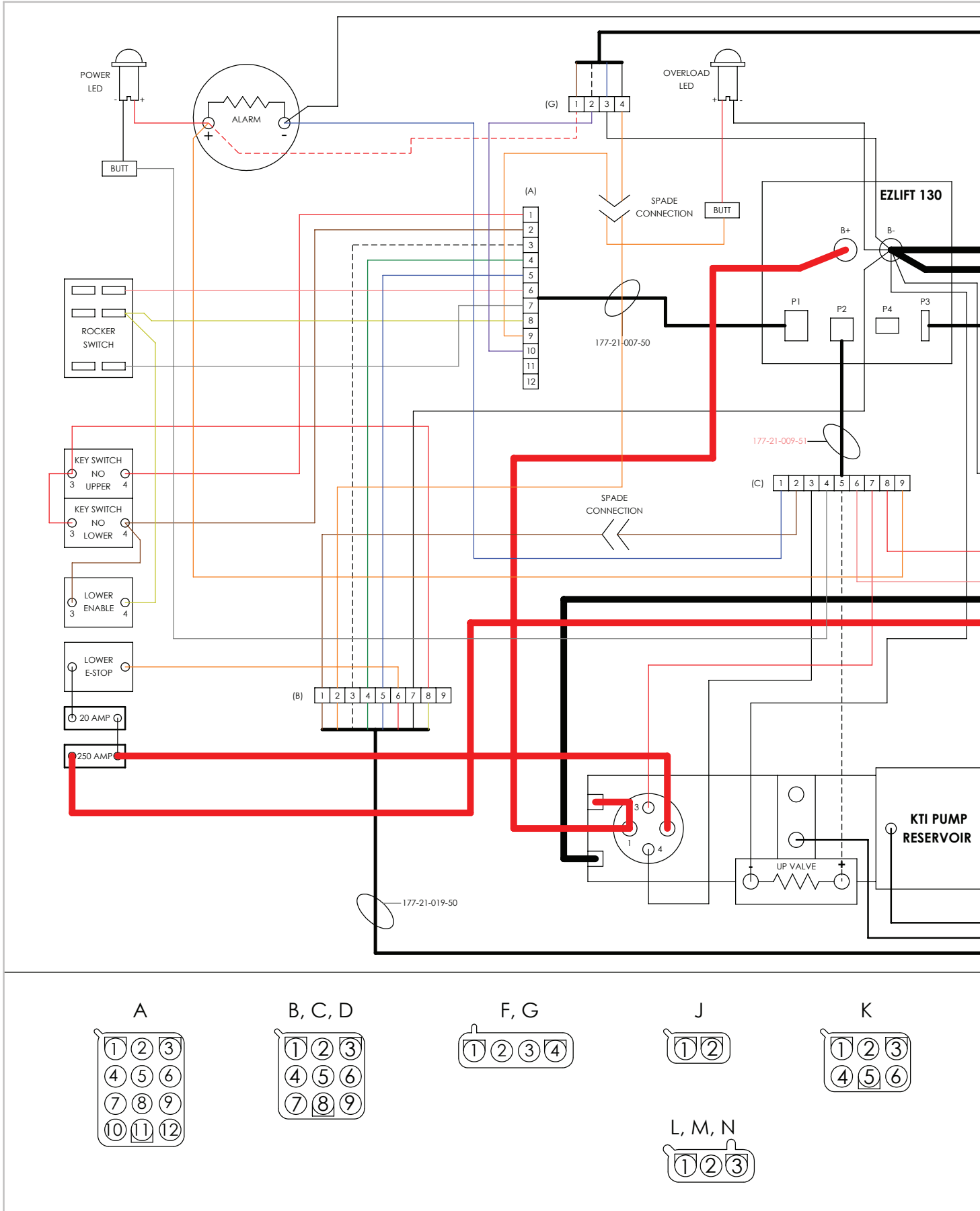
PRO IQ

DESCRIPTION
ELEC SCHEMATIC PRO IQ

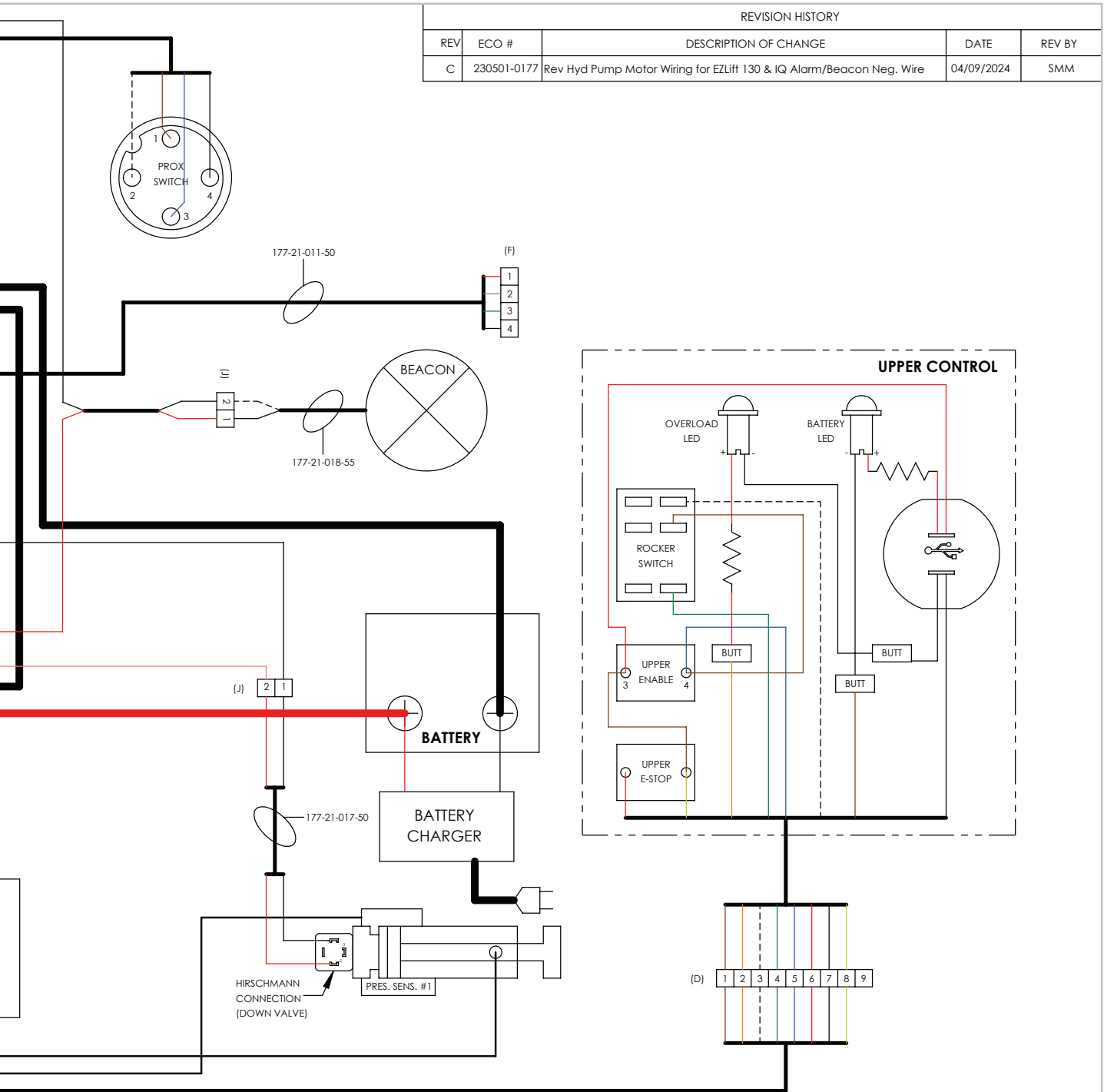
SIZE B	DWG NO. WS-177-20-101	REV B
SCALE 1:1	WEIGHT (LBS.) N/A	SHEET 1 OF 2



4.3 | WIRING DIAGRAM



SECTION 4 | TECHNICAL REFERENCES



REVISION HISTORY				
REV	ECO #	DESCRIPTION OF CHANGE	DATE	REV BY
C	230501-0177	Rev Hyd Pump Motor Wiring for EZLift 130 & IQ Alarm/Beacon Neg. Wire	04/09/2024	SMM

CONFIGURATIONS
-51: GENERAL ASSEMBLY; POP UP -56: GENERAL ASSEMBLY; HYBRID

NAME	DATE
DRAWN T.VUE	05/15/2020
APPROVED	04/09/2024
DO NOT SCALE DRAWING	
THIRD ANGLE PROJECTION	
<small>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CUSTOM EQUIPMENT AND IS LOANED IN EXPECTATION THAT IT WILL BE KEPT CONFIDENTIAL. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CUSTOM EQUIPMENT IS PROHIBITED.</small>	



PRO IQ

DESCRIPTION
WIRING DIAGRAM IQ PRO 10

SIZE B	DWG NO. WD-177-20-101	REV C
SCALE 1:1	WEIGHT (LBS.) N/A	SHEET 1 OF 2

4.4 | EZLIFT DIAGNOSTICS

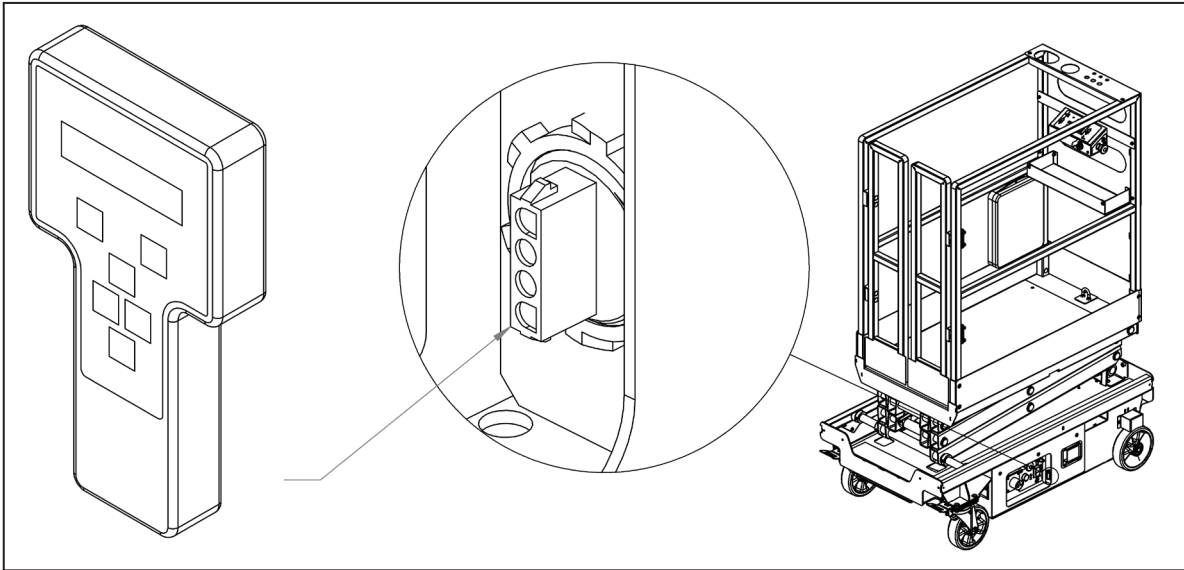


FIGURE 8: EZcal Diagnostic Connection

An EZcal tool can be connected to the diagnostic port on the lower control panel to provide access to a number of menus for diagnostic purposes.

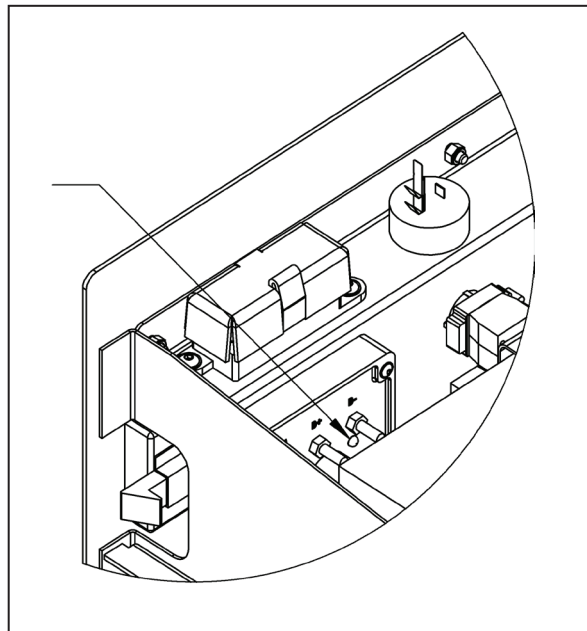


FIGURE 9: Diagnostic LED Location

If an EZcal is not available, an LED on the control board may be viewed to display flash codes.

SECTION 4 | TECHNICAL REFERENCES

Flash Code	Message	Meaning
Steady	EVERYTHING OK	No problems detected.
Steady	LIFTING/LOWERING	Elevating or Lowering in progress.
9/9	FAULT: CHECK EMS	Fault detected with P1-1 and P1-2: Power--E-stop, key switch, 20 A fuse, etc.
2/2	FUNCTIONS LOCKED-ENABLE FIRST	Attempting to activate up/down movement without enable.
2/2	FUNCTIONS FAULTY	Up and Down movements activated together.
2/2	FUNCTIONS LOCKED-EXTERNAL SHUTDOWN	Not used on this model. (A programmed interlock)
2/2	FUNCTIONS LOCKED-TILTED	Vehicle is on a slope. (Or calibrated incorrectly)
2/2	FUNCTIONS LOCKED-ARMGUARD	Vehicle being lowered to the height that the elevation switch activated to temporarily stop movement.
2/2	ENABLE LOCKED	The enable button has been active for too long without requesting movement. (This would happen if someone tried to override the enable button to keep it in the active position, or inadvertently pushed the button, etc.)
4/4	FUNCTIONS LOCKED-BATTERY	Battery charge is less than 10.8V.
6/3	FUNCTIONS LOCKED-ELEVATION SWITCH	Problem with the elevation switch. Lift did not get up in the expected time.
3/5	FUNCTIONS LOCKED-MOTOR LOADED	Problem with the pump motor.
3/5	FAULT: MOTOR OVERLOAD!	Problem with the pump motor.
3/5	FAULT: MOTOR/WIRING S/C	Problem with the pump motor.
3/4	FAULT: POWERED OUTPUTS WHEN OFF	Problem with P2-5 (Up), 6 (Down), 7 (Main Contactor), 8 (Beacon Light) powered when it should not be.
7/7	FAULT: POWER CIRCUITS GROUNDED	
3/3	FAULT: LINE CONTACTOR WELDED	Problem with the pump motor or main contactor connections.
4/2	FAULT: BAD INTERNAL SLAVE!	Internal control module fault.
3/3	FAULT: BAD INTERNAL 10V!	Internal control module fault.
1/1	TESTMODE ACTIVE	Test mode has been enabled on the EZCal. Cycle power to clear.
4/4	FAULT: SUPPLY TOO HIGH	Battery Voltage > 32V.
4/4	FAULT: SUPPLY TOO LOW	Battery Voltage < 8V.



4.5 | TROUBLESHOOTING FLOWCHART: POWER

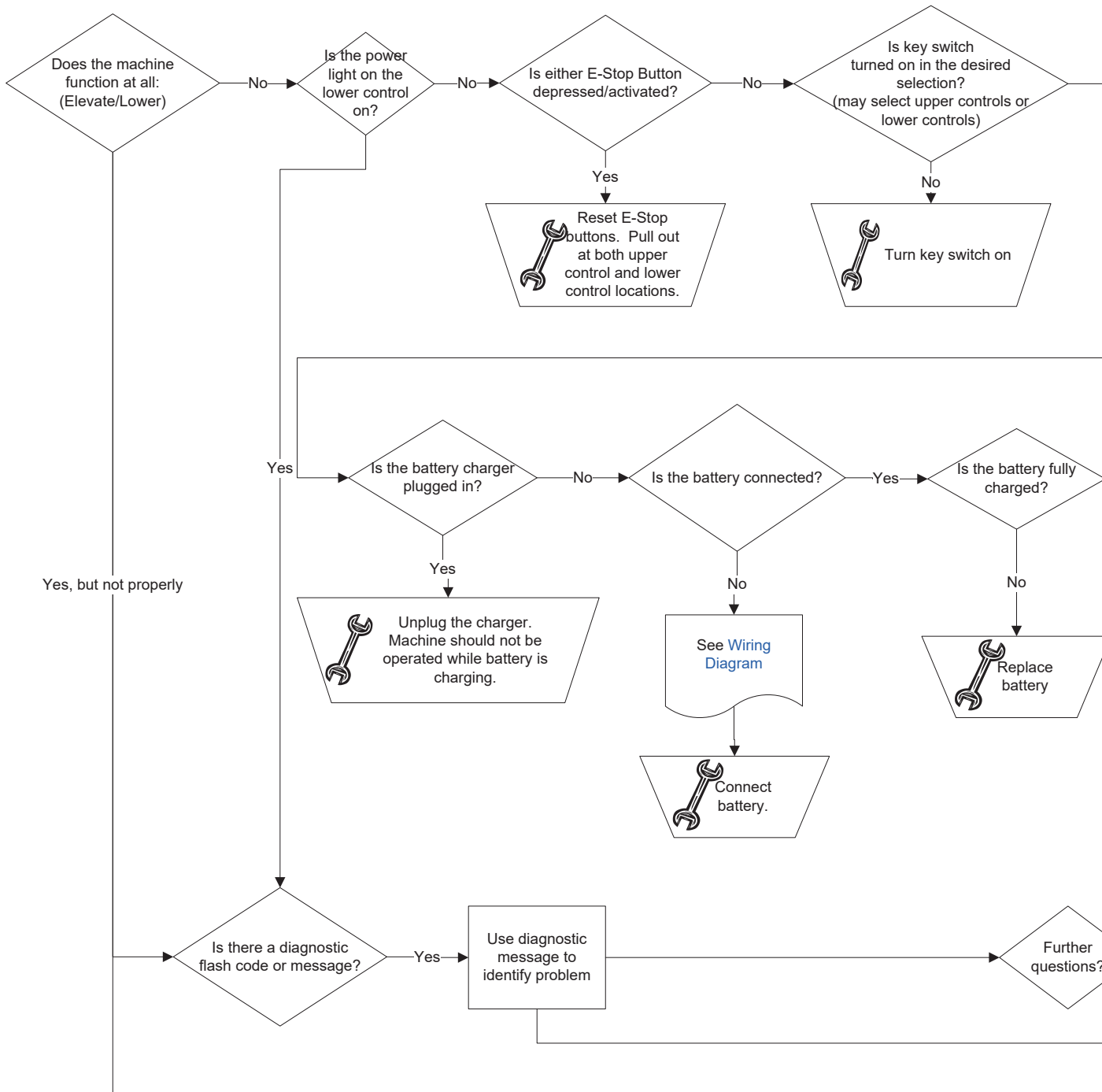
Troubleshooting Flowchart: IQ LIFT Power

Troubleshooting Step 1: Main Power

See also
Wiring Diagram Or Electrical Schematic



WARNING
Any modification on this machine without the express consent of the manufacturer is prohibited.



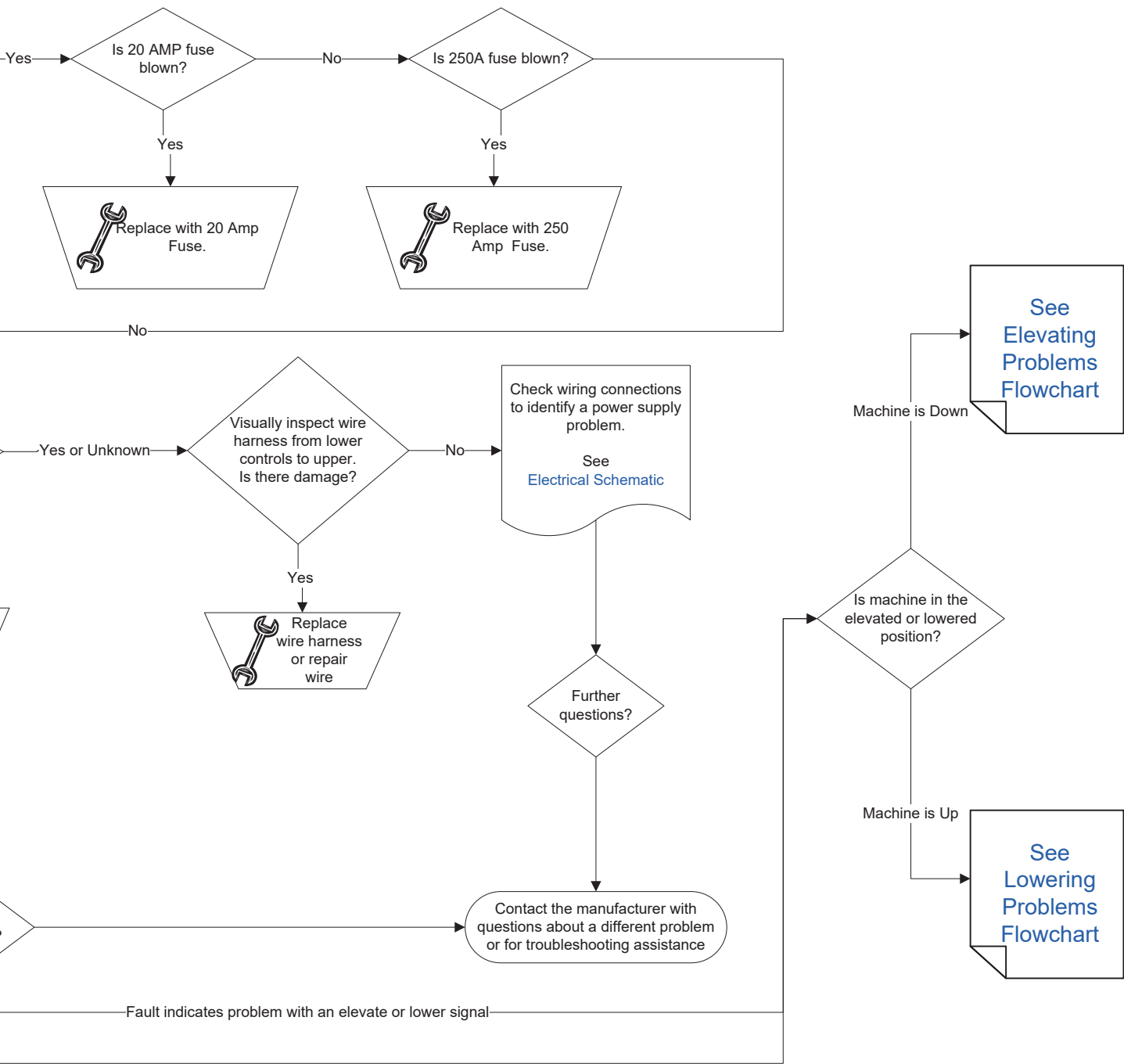


WARNING

Failure to comply with safety precautions may result in damage, injury, or death. Refer to Maintenance Manual for complete warnings

Troubleshooting Flowcharts--General Notes:

Inspect parts for visible damage as they are encountered. After each step, check if problem has been identified and/or resolved. If so, make the recommended fix or see a referenced document. If not, continue troubleshooting. If a part has been identified as needing replacement, see the Parts Manual to identify part number to order. **If any wiring or components have been altered from the original manufacture, problems may not be identifiable.**



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4.6 | TROUBLESHOOTING FLOWCHART: ELEVATING

Flowchart-IQ LIFT-Elevating

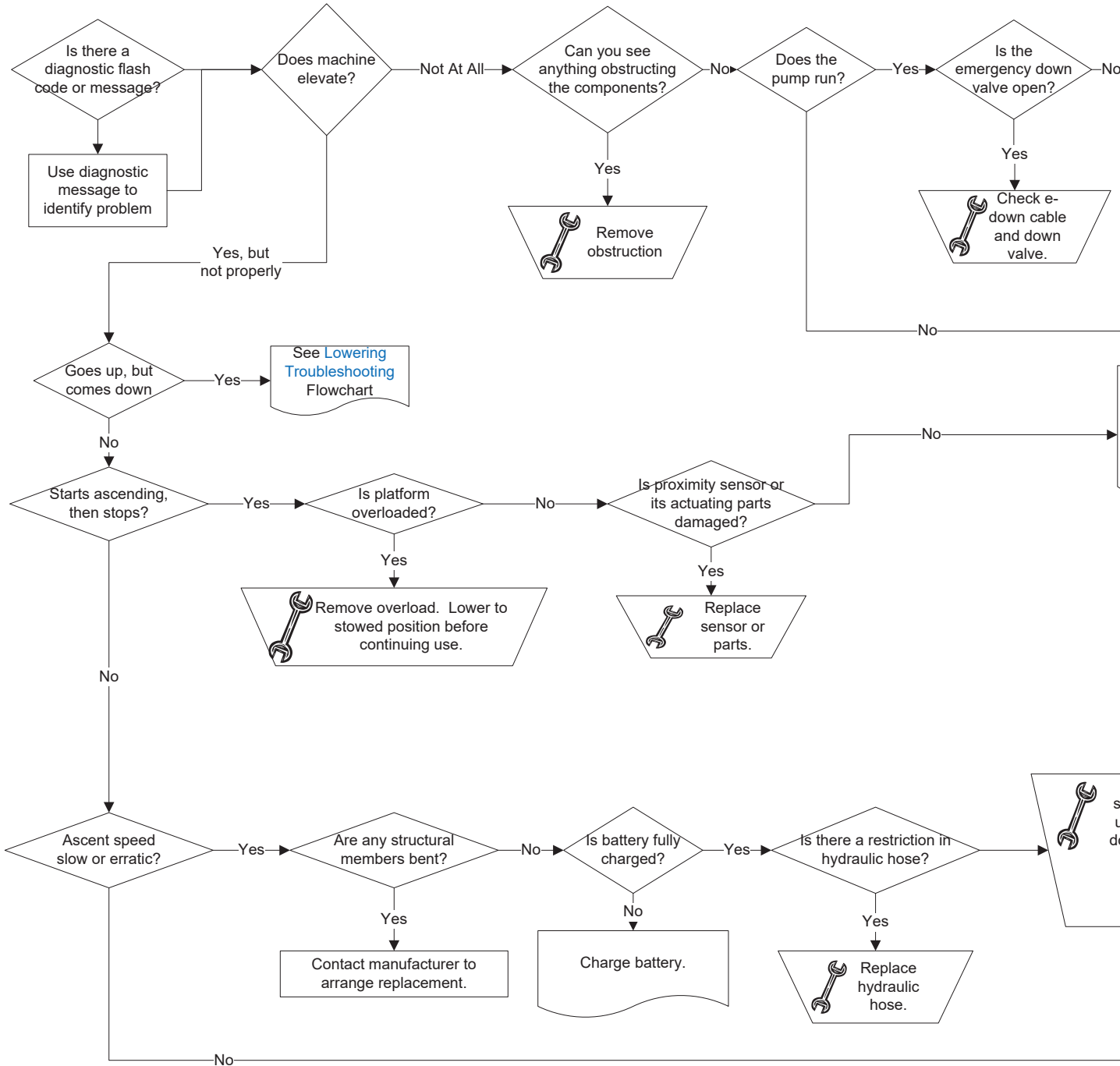
Troubleshooting Step 2A: Elevating

WARNING: Set up for maintenance safety:
 Remove load from platform.
 Check for overhead obstructions.
 Platform movement may occur.
 Never Reach between scissors links or prop up platform unless maintenance check is in place.

See also
[Wiring Diagram](#) or [Electrical Schematic](#)
 And
[Hydraulic Schematic](#)



WARN
 Any modification on th
 the express consent o
 is prohib



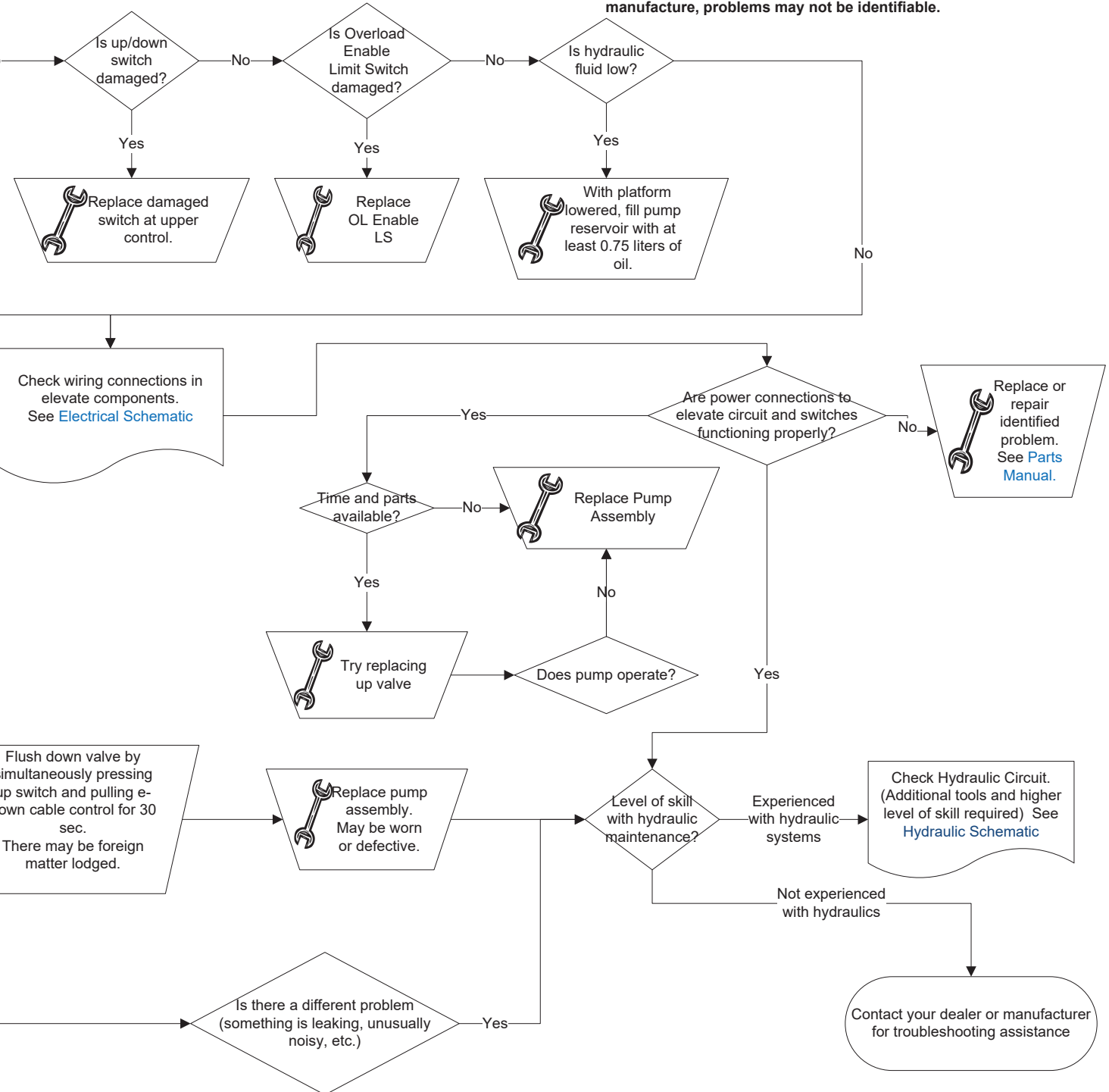
WARNING
 This machine without
 the manufacturer's
 instructions is
 dangerous.



WARNING
 Failure to comply with safety precautions
 may result in damage, injury, or death.
 Refer to Maintenance Manual for
 complete warnings

Troubleshooting Flowcharts--General Notes:

Inspect parts for visible damage as they are encountered.
 After each step, check if problem has been identified and/or resolved.
 If so, make the recommended fix or see a referenced document.
 If not, continue troubleshooting.
 If a part has been identified as needing replacement, see the [Parts Manual](#) To identify part number to order.
If any wiring or components have been altered from the original manufacture, problems may not be identifiable.



Reference Revision P01



4.7 | TROUBLESHOOTING FLOWCHART: LOWERING

Flowchart: IQ LIFT-Lowering

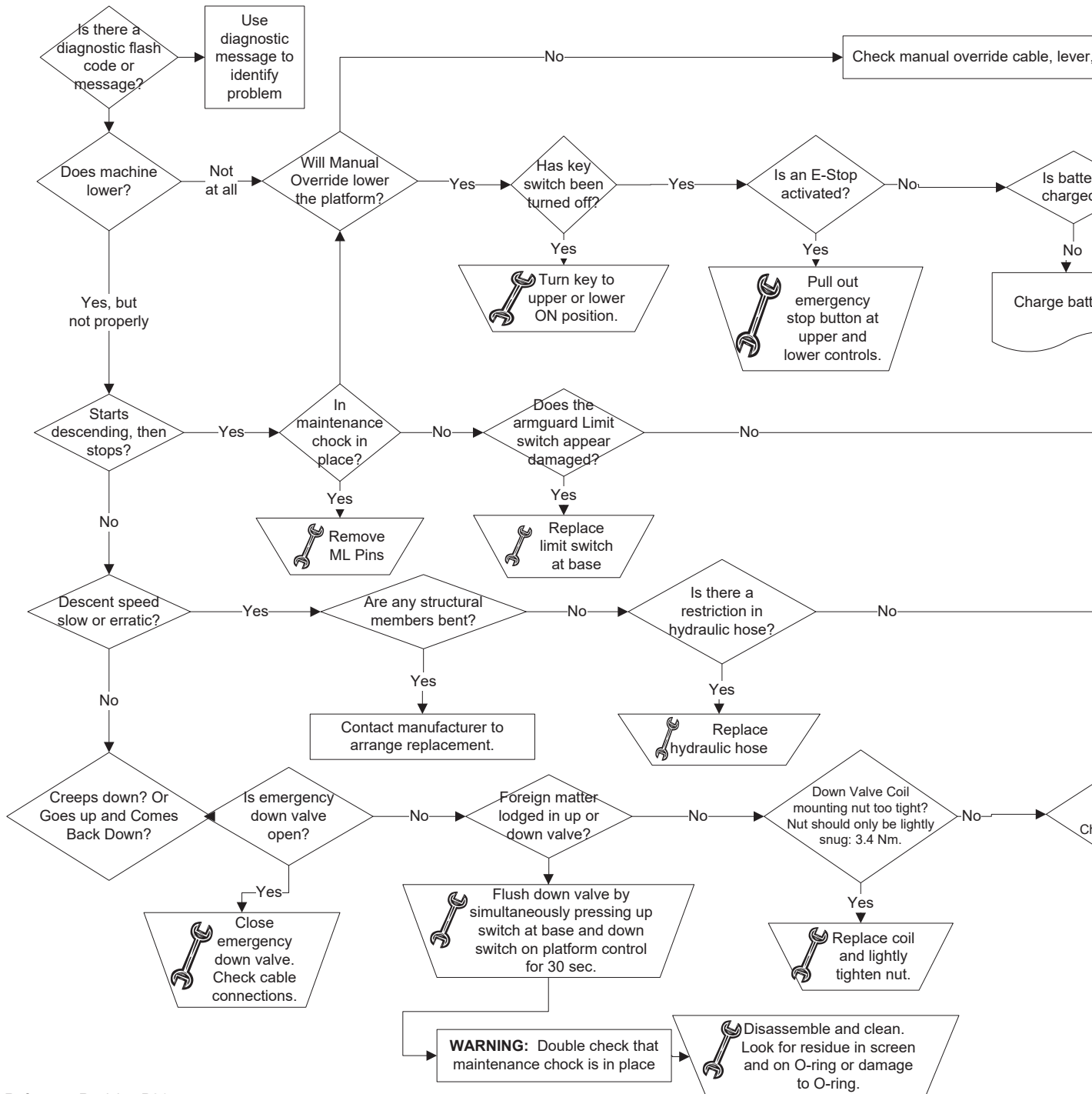
Troubleshooting Step 2B: Lowering

WARNING: Set up for maintenance safety:
Remove load from platform.
Check for overhead obstructions.
Platform movement may occur.
Never Reach between scissors links or prop up platform unless maintenance pins are in place.

See also
[Wiring Diagram Electrical Schematic](#)
And
[Hydraulic Schematic](#)



WARNING
Any modification on this machine
the express consent of the man
is prohibited.



Reference Revision P01



without
manufacturer

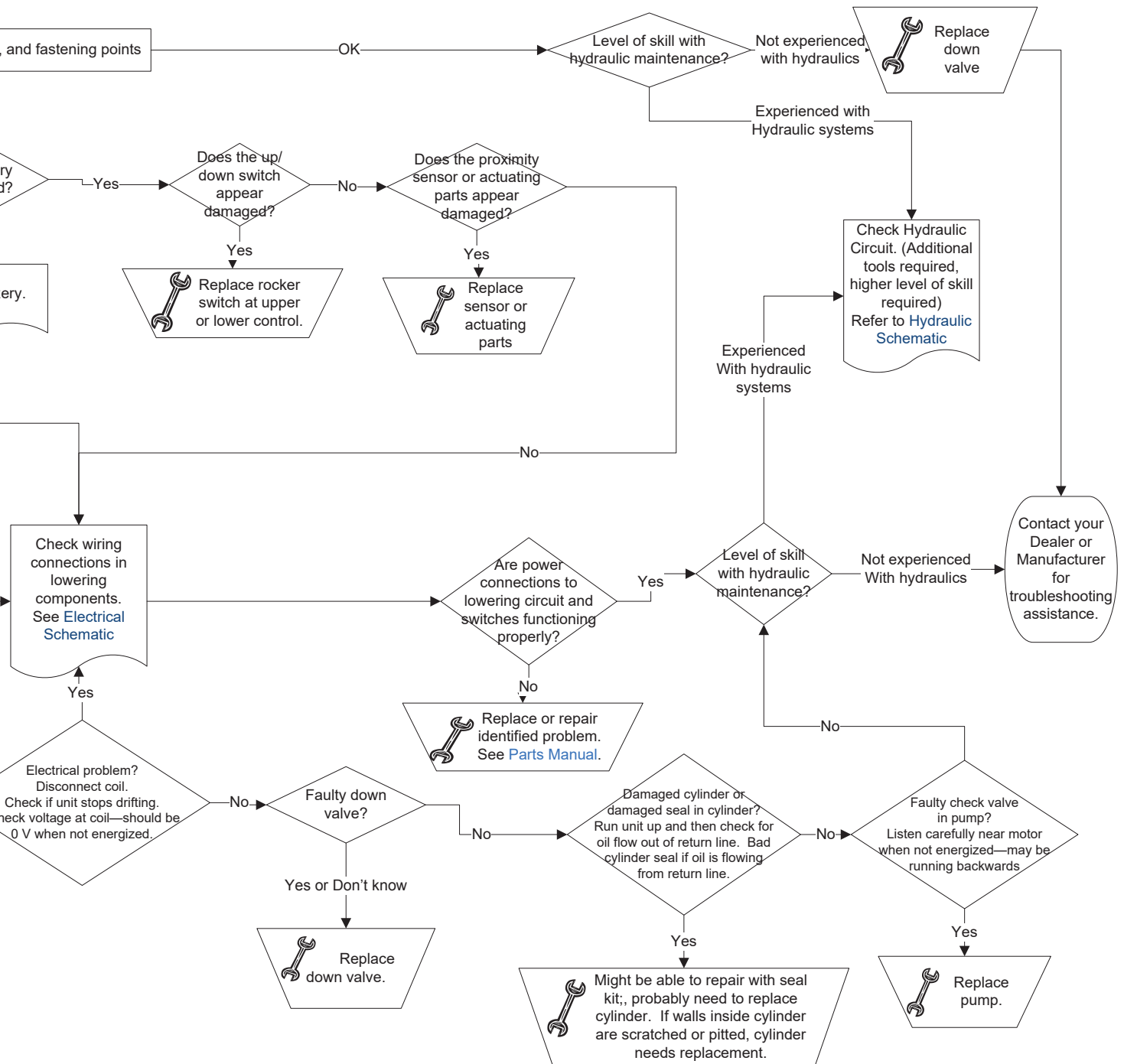


WARNING

Failure to comply with safety precautions may result in damage, injury, or death. Refer to Maintenance Manual for complete warnings

Troubleshooting Flowcharts--General Notes:

Inspect parts for visible damage as they are encountered. After each step, check if problem has been identified and/or resolved. If so, make the recommended fix or see a referenced document. If not, continue troubleshooting. If a part has been identified as needing replacement, see the [Parts Manual](#) to identify part number to order. **If any wiring or components have been altered from the original manufacture, problems may not be identifiable.**



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SECTION 5 | PARTS

5.1 | SELECTED REPLACEMENT PARTS

Description	Part #	Notes
DECAL KIT, IQ LIFT PRO 10	177-21-008-50-K	
PLATFORM CONTROL ASSEMBLY	177-21-006-50	
MAIN WIRE HARNESS	177-21-019-50	
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	
ROCKER SWITCH	ELEC-133B	
CHARGER,12V,06A PCS	ELEC-746	
GATE SPRING	HARD-302	
BRAKE SPRING	HARD-690	
HYDRAULIC OIL FLUID	HYDR-032	Not available as a replacement part. Replace with Flomite #150, Dexron II, Mobil-DTE 2 or equivalent 32 weight implement oil.
DOWN VALVE	HYDR-007-2E-5	
SWIVEL CASTER ASSEMBLY	WHEE-764	
WHEEL,700 MM	WHEE-765	
HANDBOOK BOX 8.5X11X1 W/GASKET	HARD-603	

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IQ Lift PRO 10
Maintenance & Troubleshooting Handbook

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