MAINTENANCE & TROUBLESHOOTING MANUAL

SERIAL NO. _____

ZT-1230
ZT-1630



ZERO-TURN SERIES

MOBILE
ELEVATING
WORK
PLATFORMS

ANSI A92.20
CSA B354.6:17

ZT6.0-M | REV A

This manual refers to Serial Number(s):

ZT-1230 ZT12-60001 -
ZT-1630 ZT16-60001 -

For older Serial Numbers refer to our website,
www.axcs.com/service/resources

General Information

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Parts Information

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Register your AXCS Equipment / Hy-Brid Lift at:
www.axcs.com/service/register-equipment

Register to:

- Recieve product updates and recalls
- Recieve service bulletins, product and part recalls, and other important notifications
- Comply with ANSI A92.20 Standards
- Provide better records for service

WARNING

REGISTERING YOUR MEWP WITH THE MANUFACTURER IS AN ANSI A92.20 REQUIREMENT.

Original instructions are written in English

The purpose of this Maintenance Manual is to provide qualified service personnel with information for servicing and maintaining AXCS Equipment Zero-Turn scissor lift. 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 AXCS Equipment Zero-Turn scissor lift. Users must read and understand all information in the Safety and Operations Manual before operation.

⚠ DANGER

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

- 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.

⚠ WARNING

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

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REVISION LOG:

REV A ..... July 2026

1.1 | SAFETY SYMBOLS

⚠ DANGER

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.

⚠ WARNING

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.

⚠ CAUTION

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.

Although Custom Equipment, LLC conforms to specified ANSI, OSHA, & CSA 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 ANSI, OSHA, & CSA. 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.

1.3 | 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.

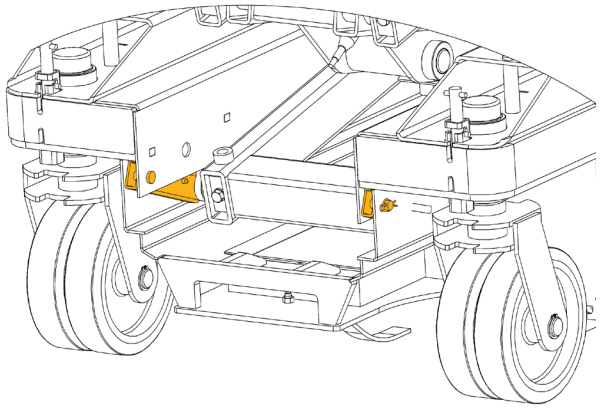


FIGURE 1: Maintenance Lock Use

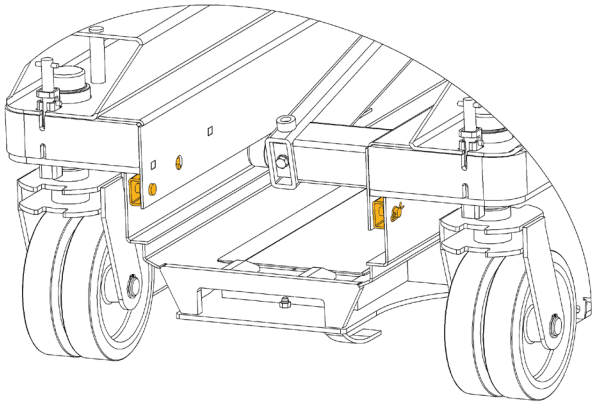


FIGURE 2: Maintenance Lock Storage

⚠ WARNING

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

This unit is equipped with deep cycle 12-volt batteries. 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.

⚠ CAUTION

NEVER ADD ACID TO BATTERY!

2.2 | CHARGING THE BATTERY

The charger may include an interlock circuit. If so equipped, the unit will not operate while charging. Operating while charging will shorten battery life.

To Charge:

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

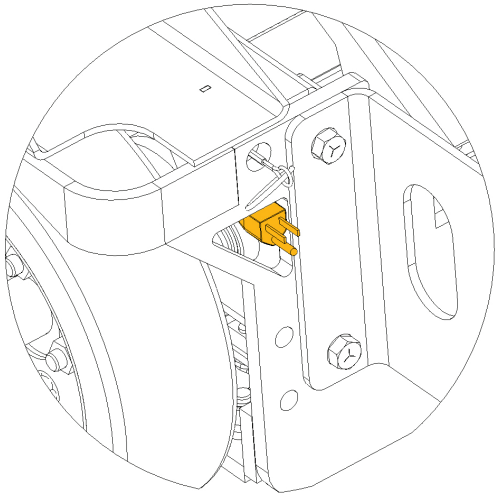


FIGURE 3: Charger Cord Location

⚠ WARNING

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

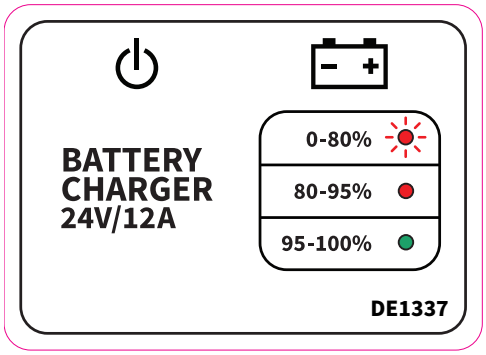


FIGURE 4: Battery Charge Charge Levels

WARNING

DO NOT OPERATE UNIT WHILE CHARGING.

Battery Charge Display: Pro Charging Systems IS2412

		MEANING
(OFF)	(SOLID)	**Standby Mode** (Or battery/ connection error)
(FLASHING)	(SOLID)	**Normal Charging** Bulk Charging
(SOLID)	(SOLID)	**Normal Charging** Absorption Stage
(SOLID)	(SOLID)	**Charge Complete** Flat/Maintenance Mode
(FLASHING)	(FLASHING)	**Charger Error**

2.3 | LUBRICATION

Item	Specification	Frequency of Lubrication
Wheels	Teflon Spray	Quarterly

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.

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⚠ CAUTION

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)
- Pre-Delivery/Frequent/Annual (Required every 3 months, after periods of storage, and after any alterations or repairs)

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

Pre-Start Inspection (Zero-Turn Series)

Model: _____

Serial No. _____

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

⚠ CAUTION

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.

Y-Yes/Acceptable **N**-No/Unacceptable **R**-Repaired **N/A**-Not Equipped	**Y**	**N**	**R**	**N/A**
VISUAL INSPECTIONS				
There are no loose or missing parts.				
Check that warning and instructional labels are legible and secure. Ensure that load capacity is clearly marked.				
Check the platform rails and safety gate for damage.				
Platform and base controls are not missing, damaged, or disconnected.				
Electrical cables and wires are not torn, frayed, or disconnected.				
Hydraulic hoses are not torn or loose, and there are no leaks. Hoses and the cables have no worn areas or chafing.				
Check the tires for damage. Check that wheel axle retaining rings and any set screw(s) in rear wheel are tight.				
Check that all snap rings are secure in grooves on pivot pins.				
FUNCTIONAL TESTS				
Gate closes automatically.				
Platform Controls: Check all push buttons for proper operation.				
Emergency Stop (Stops all movement)				
Drive & Up/Down Mode Button (Selects drive/steer or elevate mode)				
Joystick: (Return to neutral, drives forward & reverse,)				
Enable Trigger (Must be activated for joystick-operated movement)				
Elevates & lowers				
Horn sounds when button is pressed.				
Base Controls: Check all switches and push buttons for proper operation.				
Emergency Stop (Stops all movement)				
Key Switch (Selects Platform Control, Ground Control, or Off)				
Up/Down Rocker Switch (Elevates, Lowers)				
Descent Alarm (Not damaged, sounds for descent; may also sound for drive & elevate, if so equipped)				
Tilt Alarm (Not damaged, sounds when tilted and machine elevated above designated height)				
Wheels: Front and rear wheels rotate freely.				
Front wheels pivot freely.				
Drives in slow speed when elevated.				
Brakes: Machine stops when joystick released.				
Pothole guards deploy and lock when platform is elevated.				
Lift does not elevate when pothole guards are blocked.				
DATE:	INSPECTED BY:			

3.2 | PRE-DELIVERY/ANNUAL/FREQUENT INSPECTION CHECKLIST

Model: _____

Serial No. _____

- 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

⚠ CAUTION

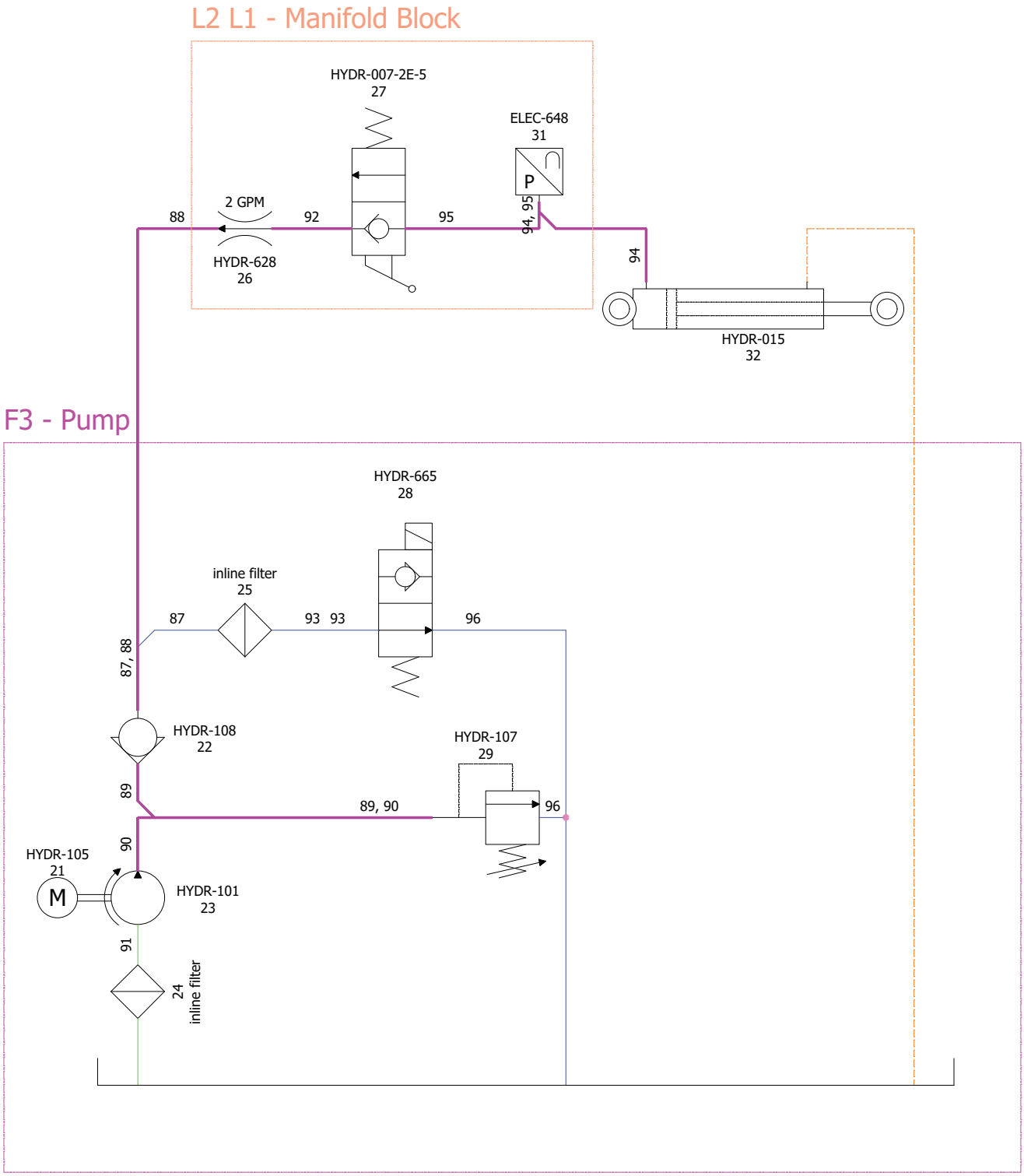
WORK PLATFORMS SHALL BE INSPECTED, SERVICED, AND ADJUSTED TO MANUFACTURER'S REQUIREMENTS BY A QUALIFIED MECHANIC PRIOR TO EACH SALE, LEASE, OR RENTAL, AND EVERY 3 MONTHS OR 150 HOURS, WHICHEVER COMES FIRST, AND ANNUALLY.

Y-Yes/Acceptable **N**-No/Unacceptable **R**-Repaired **N/A**-Not Applicable	Y	N	R	N/A
BASE:				
No broken welds				
Inspect slide tracks for damage				
All frame bolts tight				
Pump secure				
DC drive motors secure				
Batteries fully charged				
Tie rods secure (Pro Series)				
WHEELS:				
Snap rings secure				
Bolts/nuts tight				
SCISSORS:				
No broken welds				
No bent beam members				
All rollers turn freely				
Retaining rings secure on pivots				
Maintenance locks: Stored and securely connected				
Scissor beam tube bolts tight				
PLATFORM:				
No bent rails				
No broken welds				
All rails in place/secure				
110V outlet safe/working				
Entrance gate closes freely				

Y-Yes/Acceptable **N**-No/Unacceptable **R**-Repaired **N/A**-Not Applicable	**Y**	**N**	**R**	**N/A**
DECALS:				
Legible				
Correct capacity noted				
Proper placement & quantity				
RAILS/EXTENDING PLATFORM:				
Extends freely				
Cables in place/secure				
Locks in stowed position				
Locks in extended position				
FUNCTIONS:				
All functions (drive, elevate, and steer) operational (see Pre-Start Inspection for details)				
Pothole guards deploy when platform elevated				
Emergency stop breaks circuits				
Slow speed mode activates just after units pothole bars are deployed				
Pothole interlock functions correctly				
BRAKES:				
Operational				
EMERGENCY DOWN:				
Operational				
WIRING:				
Switches secure				
Contactor(s) secure				
Tight on terminals (No loose wiring)				
OIL:				
Level 1" from top (when platform stowed)				
OTHER:				
Check all hoses for leaks				
Check all fittings for leaks				
Battery charger secure/operational				
When tilted past the allowable degree, unit will not elevate				
Warning horn				
Hour meter operational				
Battery indication operational				
Operator's Manual is on the unit				
Overload light & alarm sounds when overloaded (Only required for annual inspection on CE Lifts)				
DATE:	INSPECTED BY:			

4.1 | HYDRAULIC SCHEMATIC

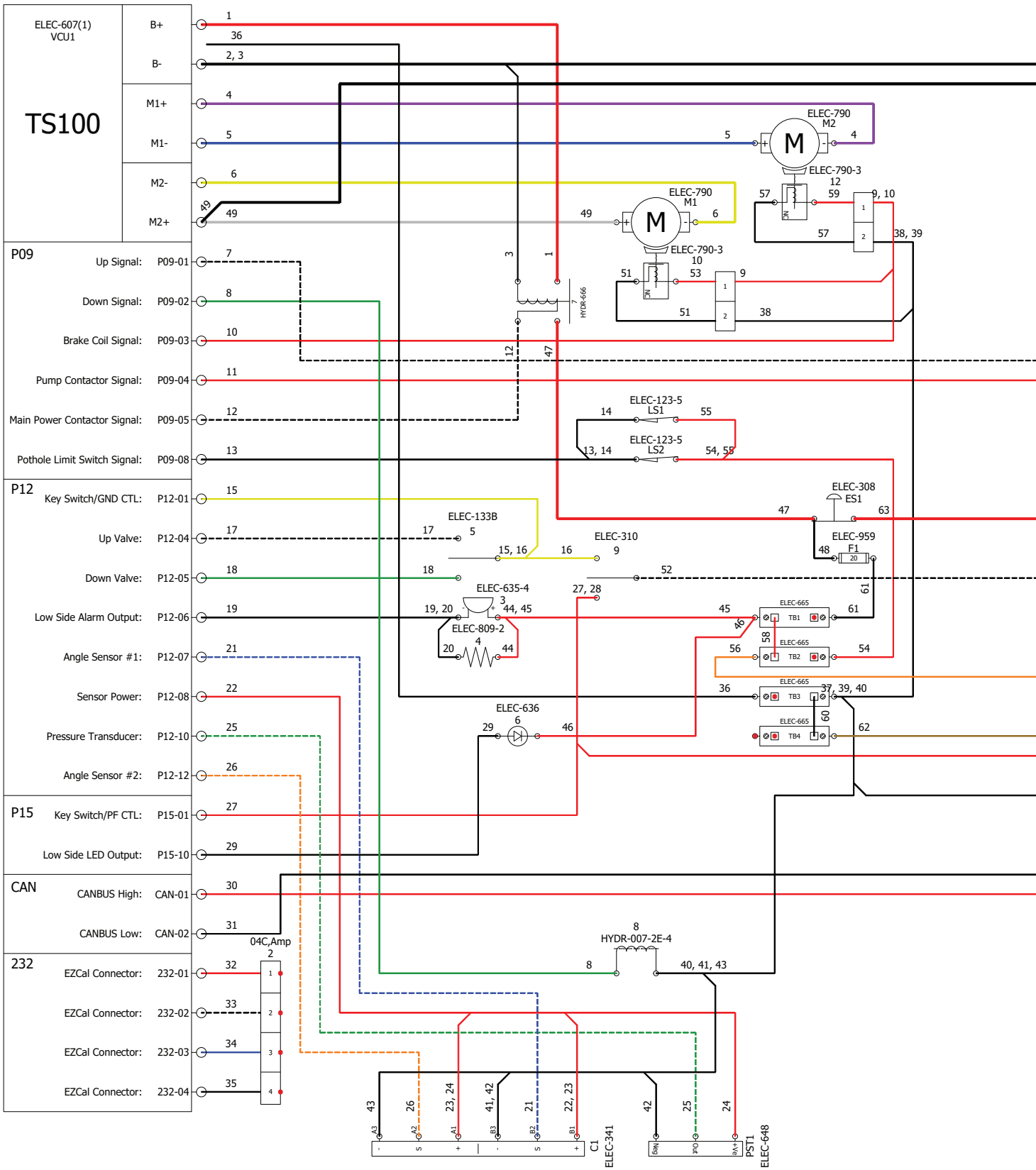
Part No. HS-129-20-601-50

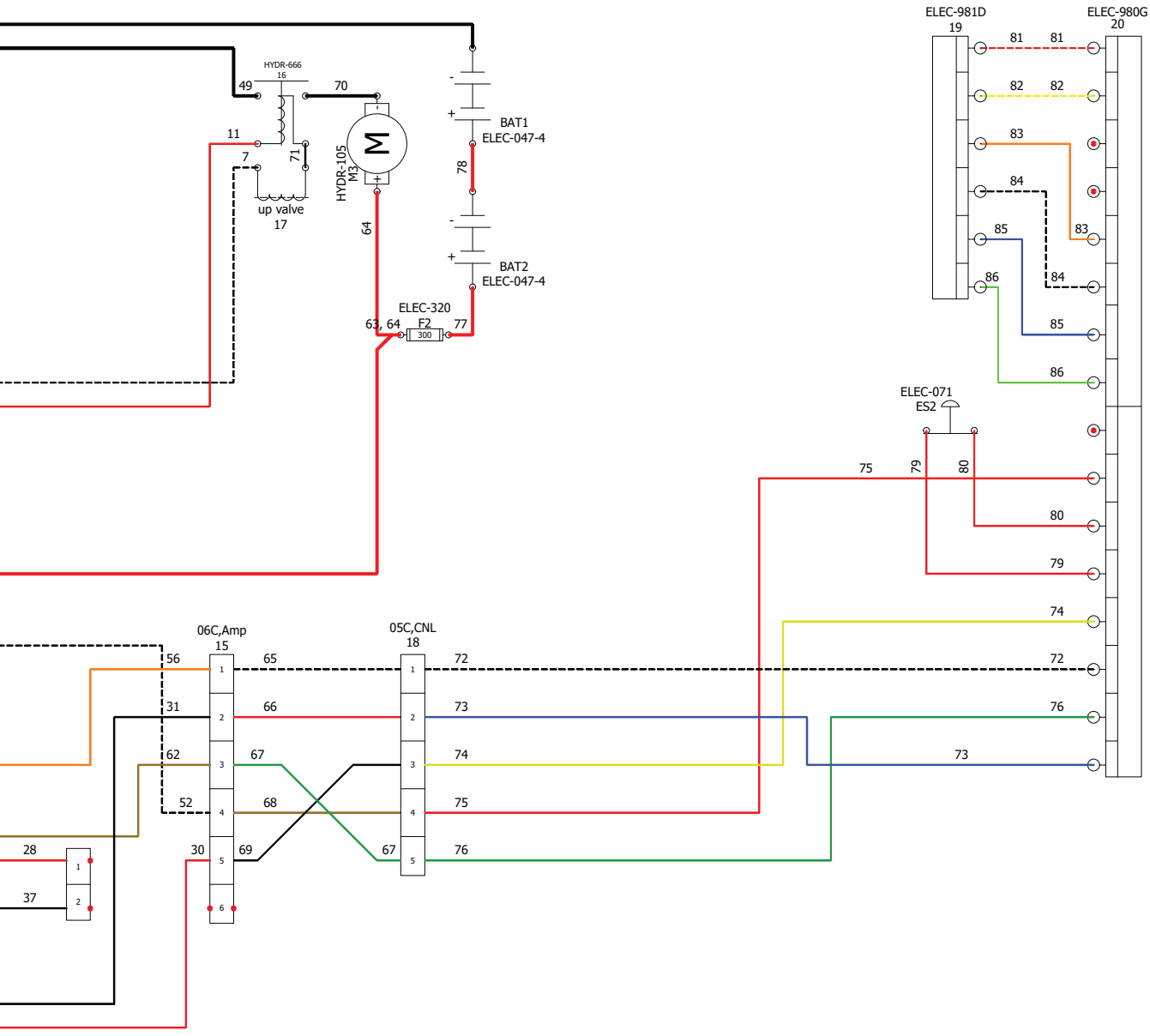


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4.2 | WIRING SCHEMATIC

Part No. WS-129-20-601-50




HYDR-666
16
49
70
11
7
71
up valve
17
HYDR-105
M3
64
78
BAT1
ELEC-047-4
BAT2
ELEC-047-4
ELEC-320
63, 64
F2
300
77
ELEC-981D
19
ELEC-980G
20
81
82
83
84
85
86
ELEC-071
ES2
75
79
80
74
72
76
73
06C,Amp
15
05C,CNL
18
56
31
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4.3 | CONTROL BOARD DIAGNOSTIC

When using the LED for diagnosis, note that a DUAL FLASH code is indicated. The LED will flash on/off a certain number of times, pause off for a short delay, then flash on/off a second certain number of times, followed by a much longer pause off. The sequence will then repeat.

EXAMPLE: The LED flash code 3-2 will look like: on/off/on/off/on/off-short-delay/on/off/on/off-long-delay/repeat

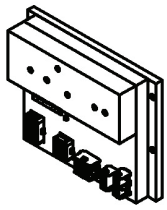


FIGURE 5: LED Light Diagnostic Location

If a handheld controller (Part no: ELEC-646-5) is available, it will display error codes and their description

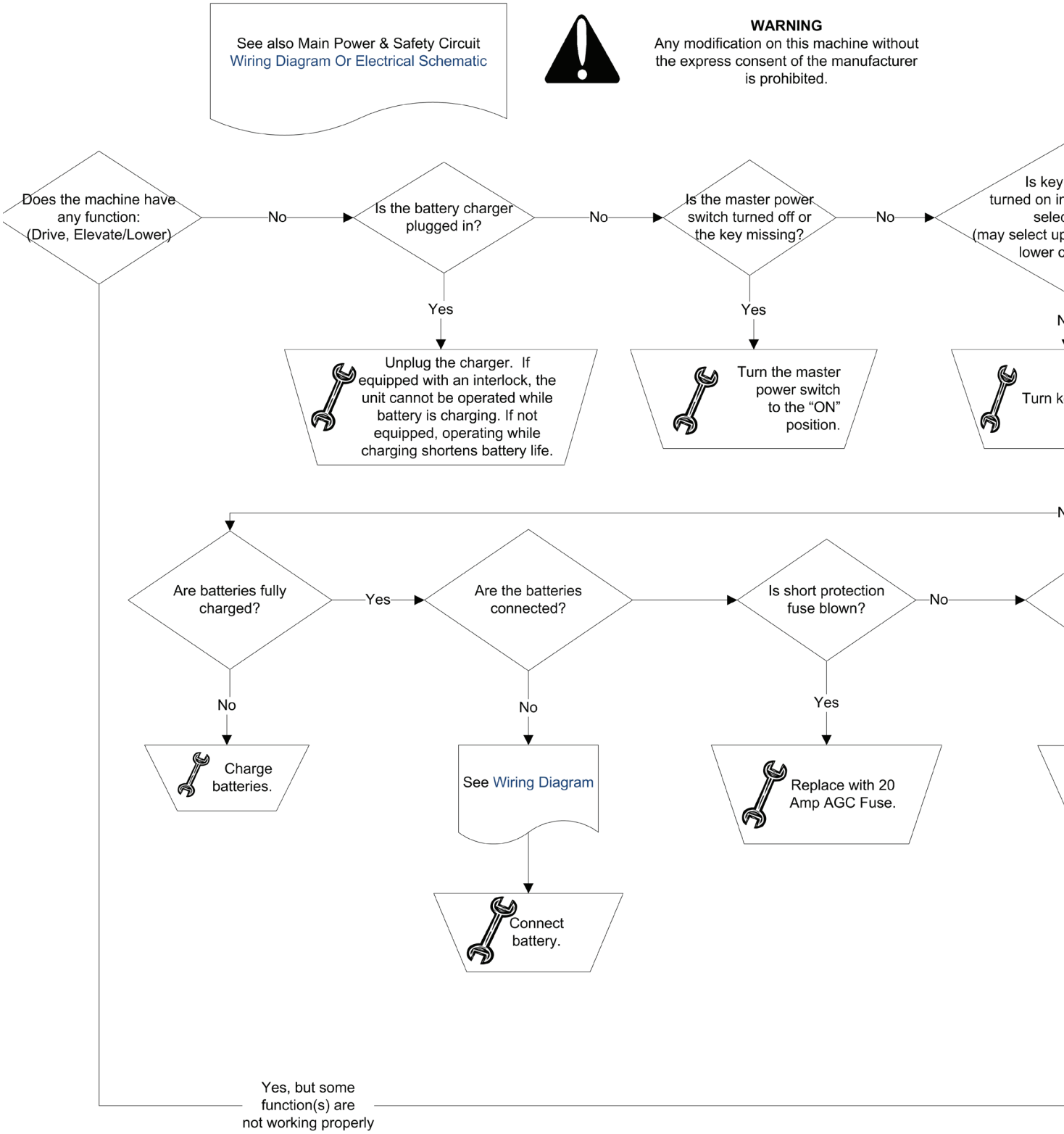


FIGURE 6: EZ Cal Handheld Controller

LED Code	Possible Cause
Fast Flash	Control Module is not calibrated, Do not operate unit.
Steady	Unit has just been powered on. You may need to wait for initialization, then re-select function. Ready to operate, things should be working normally. A function is selected but the enable trigger is not squeezed.
1-1	The control module is not calibrated. Do not use this unit.
2-1	The key switch selector switch indicate the mode in which the TS100 must operate. If neither input is active, or if both are active together, the TS100 does not know how to function. Check key switch and wiring to P15-1 and P12-1.
2-2	A safety feature is locking functions or a switch has failed. Check that platform is not overloaded, operating on a level surface, and pothole guards deploy. Check that joystick is neutral when powered on. Check that joystick trigger is not closed for too long without selecting a function. Check for failed joystick, selector switches, and up/down switches.
3-x	There is a problem with the drive contactor or valve wiring, or with the motor power wiring; disconnect connector P9 to see if the problem is caused by drive contactor or valve wiring (if the fault clears, check for an illegal B+ supply in to P9) Check motor power wiring; with the drive contactor open the B+ power terminals should be at 10V-15V (significantly lower than B+) If the LED is steady at power-on, and the fault (3-5) occurs after a delay when attempting to drive or lift, the motor may be stalled and causing an overload of the TS100 or there is a power wiring error like connecting the B+ cable to a motor stud

LED Code	Possible Cause
3-2	Check P9 wiring. One or more signals showing outputs when all should be off.
3-3	Check B+ stud connections on controller. Voltage is too high.
3-4	There is voltage on safe pre-valve supply when there should not be. Controller may need to be replaced.
3-5	The drive brake current is too high. Motor overload. Check for a siezed motor or for power wiring to motors.
4-x	There is a problem with battery supply, the height and/or pressure sensors, the supply to them, or the temperature sensor inside the TS100 Check battery supply to EMS inputs P15-1 or P12-1 (relative to the B- stud); the battery supply should be between 15V and 32V Check the output from height sensor (P12-12) If the TS100 heatsink is very hot then perhaps the controller has temporarily shut down – if so,platform lowering is still allowed; wait for the controller to cool down
4-2	Functions Locked: Board is overheated. Check pump, drive motor wiring. Problem with controller internal voltage. Controller may need to be replaced.
4-3	Problem with controller internal voltage. Controller may need to be replaced.
4-4	Battery supply is too low or too high. Make sure batteries afe fully charged. Do not operate while charging.
4-5	Joystick signal problem. Wiring problem-check for short circuits, misconnection, check P15-12 connection.
6-x	There is a problem with the height measurements, or the elevation switch disagrees with the height sensor. Check that the output from height sensor (P12-12) is in range (between 0.5V and 4.5V)
6-1	Problem with angle sensor or its connections
6-2	This feature does not apply on ANSI/CSA models.
6-3	Problem with elevation switch or its connections
6-6	This feature does not apply on ANSI/CSA models.
7-x	There is a problem with the power wiring – the voltage on the B+ stud is too low Check for a short-circuit to the B+ stud
7-1	Motor A current too high.
7-2	Motor A current too low.
7-3	Motor B current too high.
7-4	Motor B current too low.
7-5	Check drive connections at both drives--short or multiple wiring faults.
7-7	Check B+ stud connections on controller. Voltage is too low.

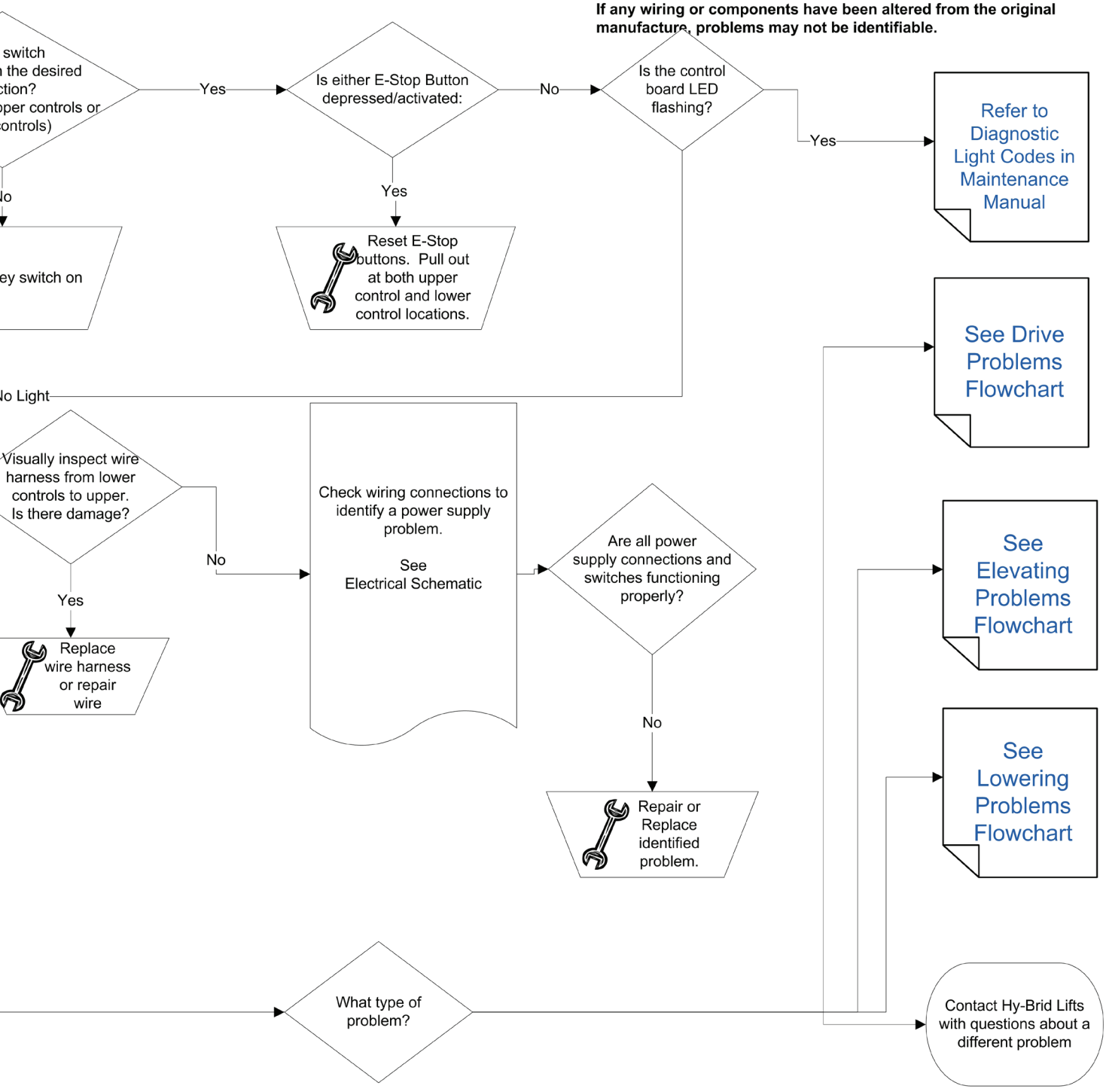
5.1 | MAIN POWER/SAFETY CIRCUIT



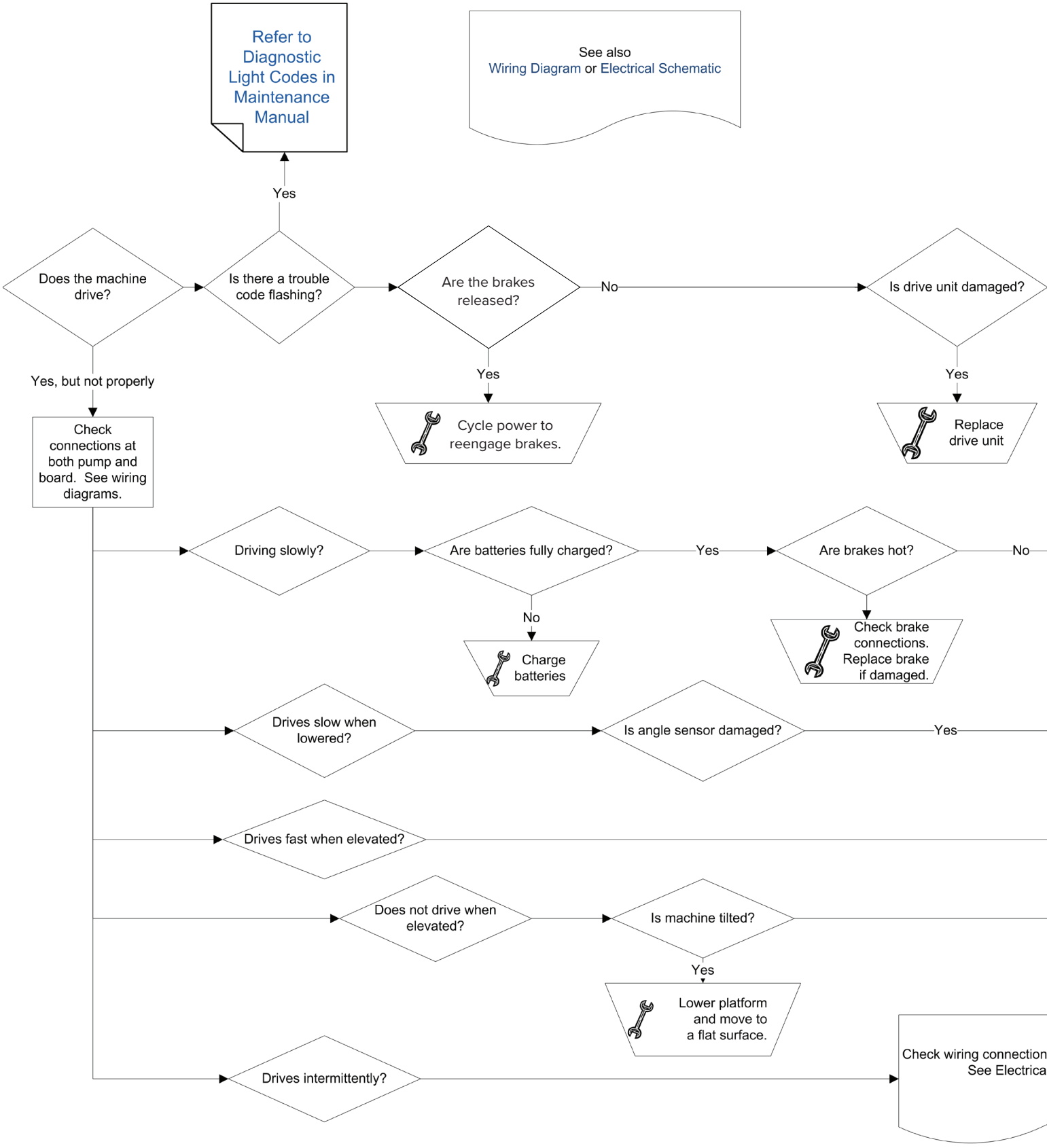


WARNING
Failure to comply with safety precautions may result in damage, injury, or death. Refer to Maintenance Manual for complete warnings

Troubleshooting Flowcharts--General Notes:
Inspect parts for visible damage as they are encountered.
After each step, check if problem has been indentified 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 View to identify part number to order.
If any wiring or components have been altered from the original manufacture, problems may not be identifiable.



5.2 | DRIVE CIRCUIT

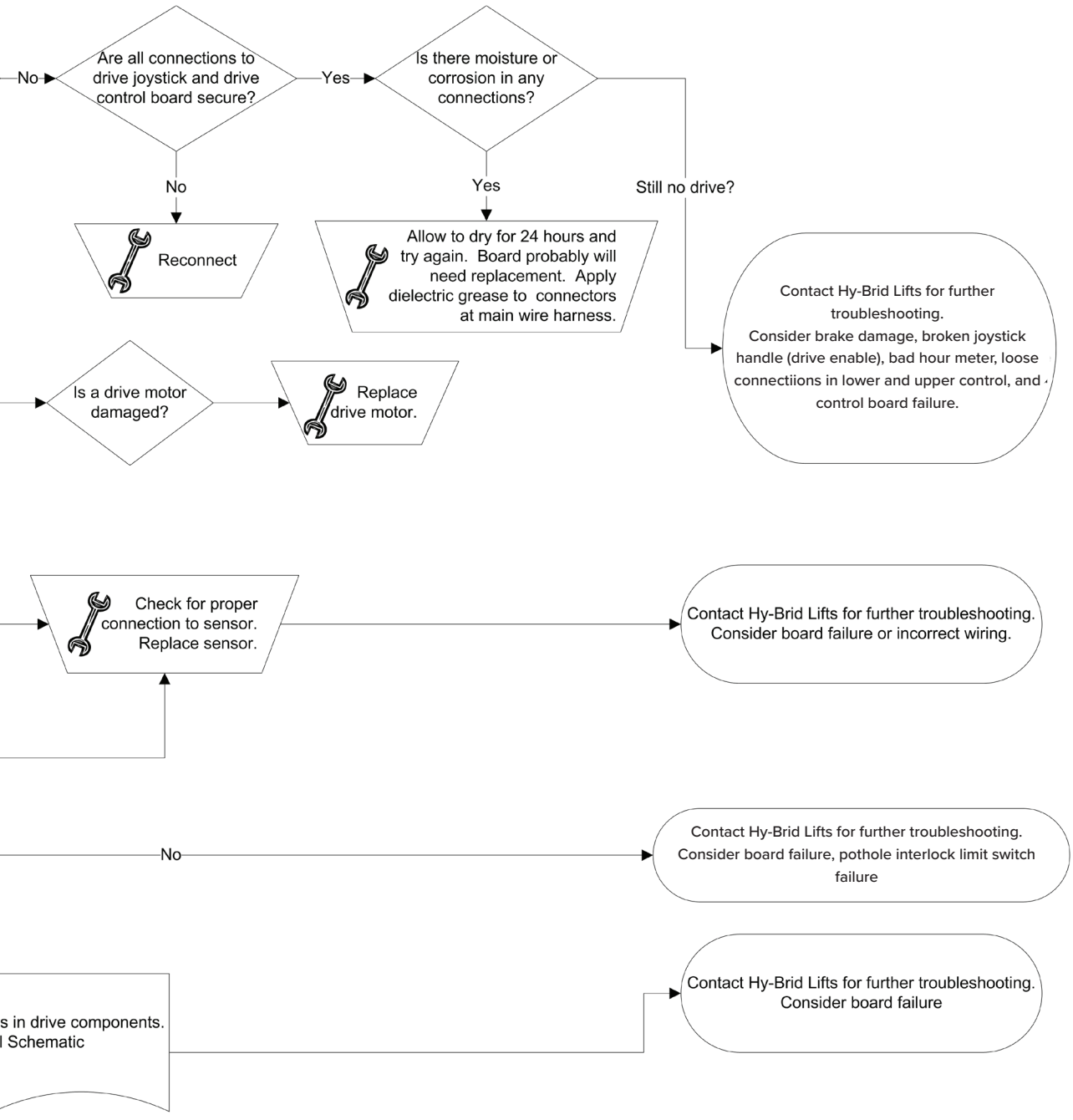


WARNING
Any modification on this machine without the express consent of the manufacturer is prohibited.

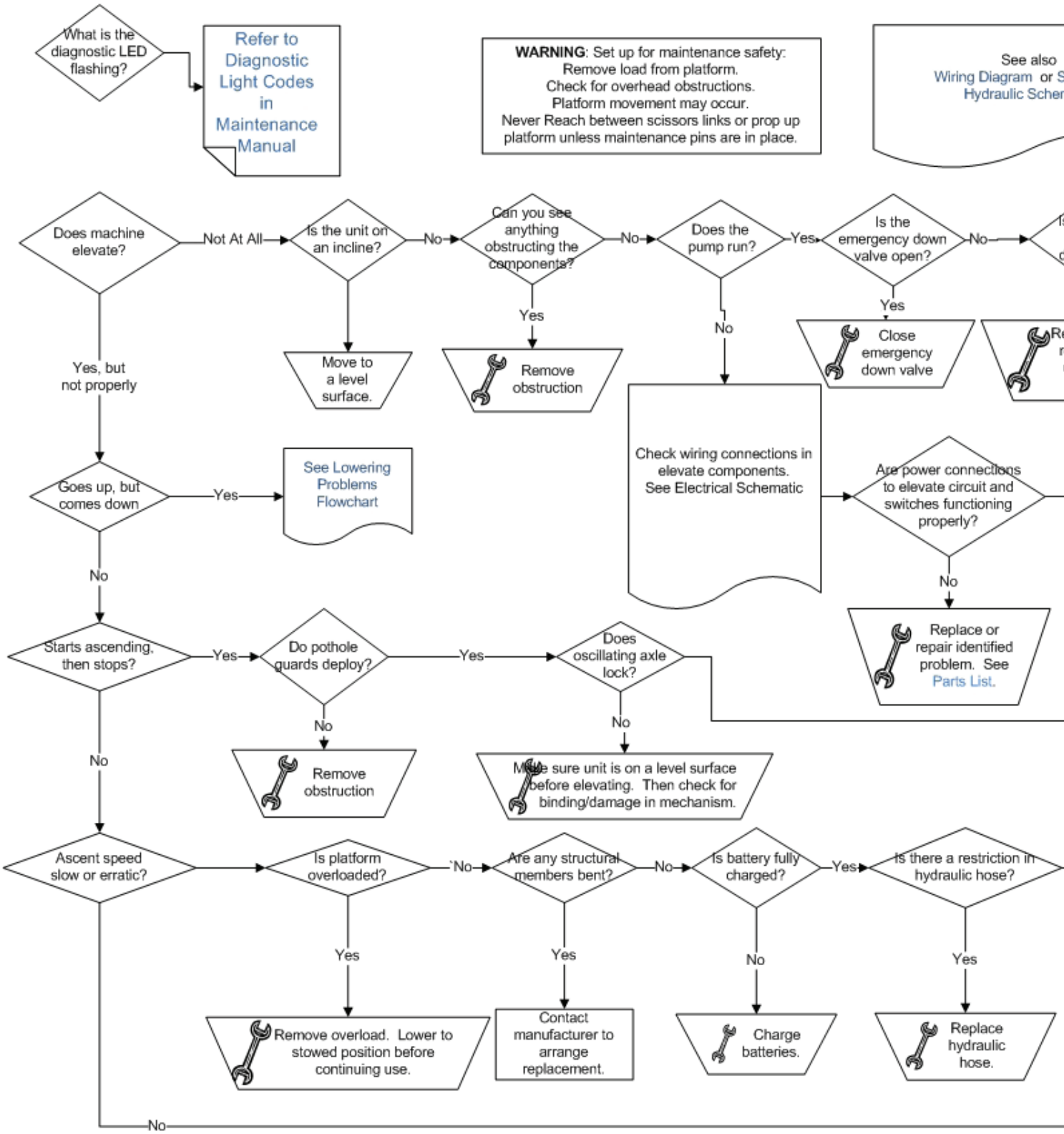
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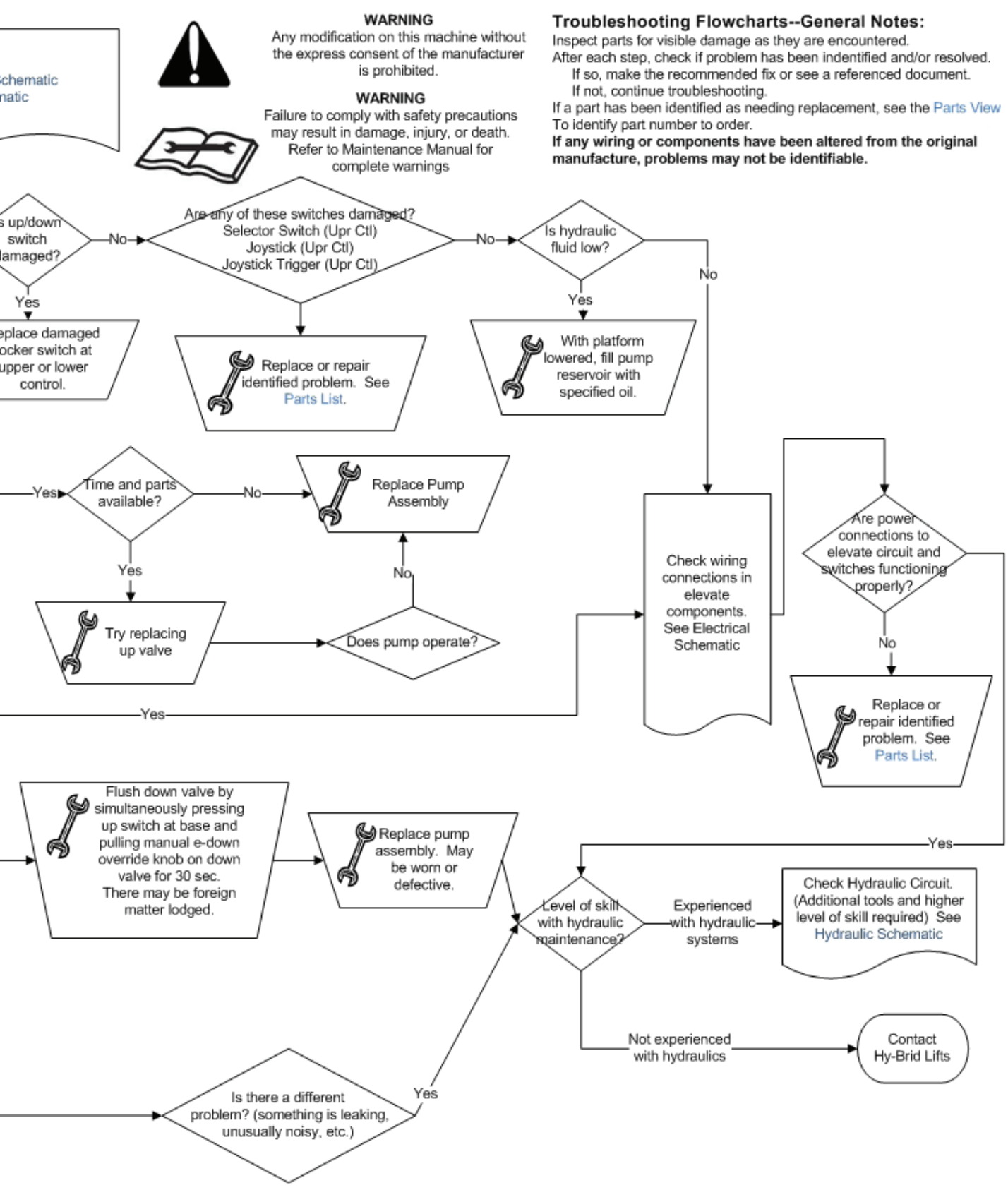
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If a part has been identified as needing replacement, see the Parts View To identify part number to order.
If any wiring or components have been altered from the original manufacture, problems may not be identifiable.

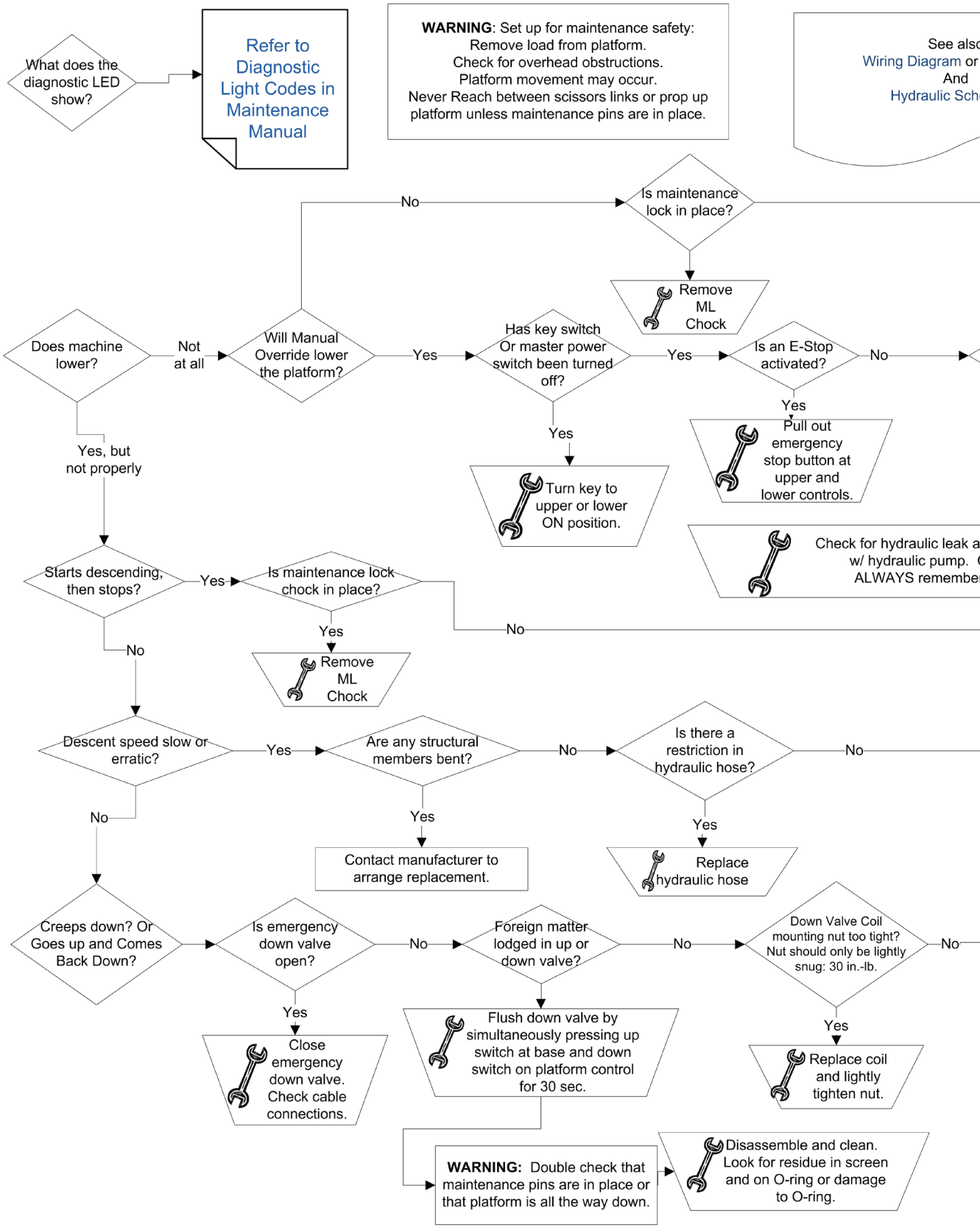


5.3 | ELEVATE CIRCUIT




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 indentified 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 View To identify part number to order.
If any wiring or components have been altered from the original manufacture, problems may not be identifiable.
Schematic
matic
s up/down switch damaged?
No
Yes
eplace damaged ocker switch at upper or lower control.
Are any of these switches damaged?
Selector Switch (Upr Ctl)
Joystick (Upr Ctl)
Joystick Trigger (Upr Ctl)
No
Yes
Replace or repair identified problem. See Parts List.
Is hydraulic fluid low?
No
Yes
With platform lowered, fill pump reservoir with specified oil.
Yes
Time and parts available?
No
Yes
Replace Pump Assembly
No
Try replacing up valve
Does pump operate?
Yes
Check wiring connections in elevate components. See Electrical Schematic
Are power connections to elevate circuit and switches functioning properly?
No
Replace or repair identified problem. See Parts List.
Yes
Flush down valve by simultaneously pressing up switch at base and pulling manual e-down override knob on down valve for 30 sec. There may be foreign matter lodged.
Replace pump assembly. May be worn or defective.
Level of skill with hydraulic maintenance?
Experienced with hydraulic systems
Check Hydraulic Circuit. (Additional tools and higher level of skill required) See Hydraulic Schematic
Not experienced with hydraulics
Contact Hy-Brid Lifts
Is there a different problem? (something is leaking, unusually noisy, etc.)
Yes

5.4 | LOWER CIRCUIT

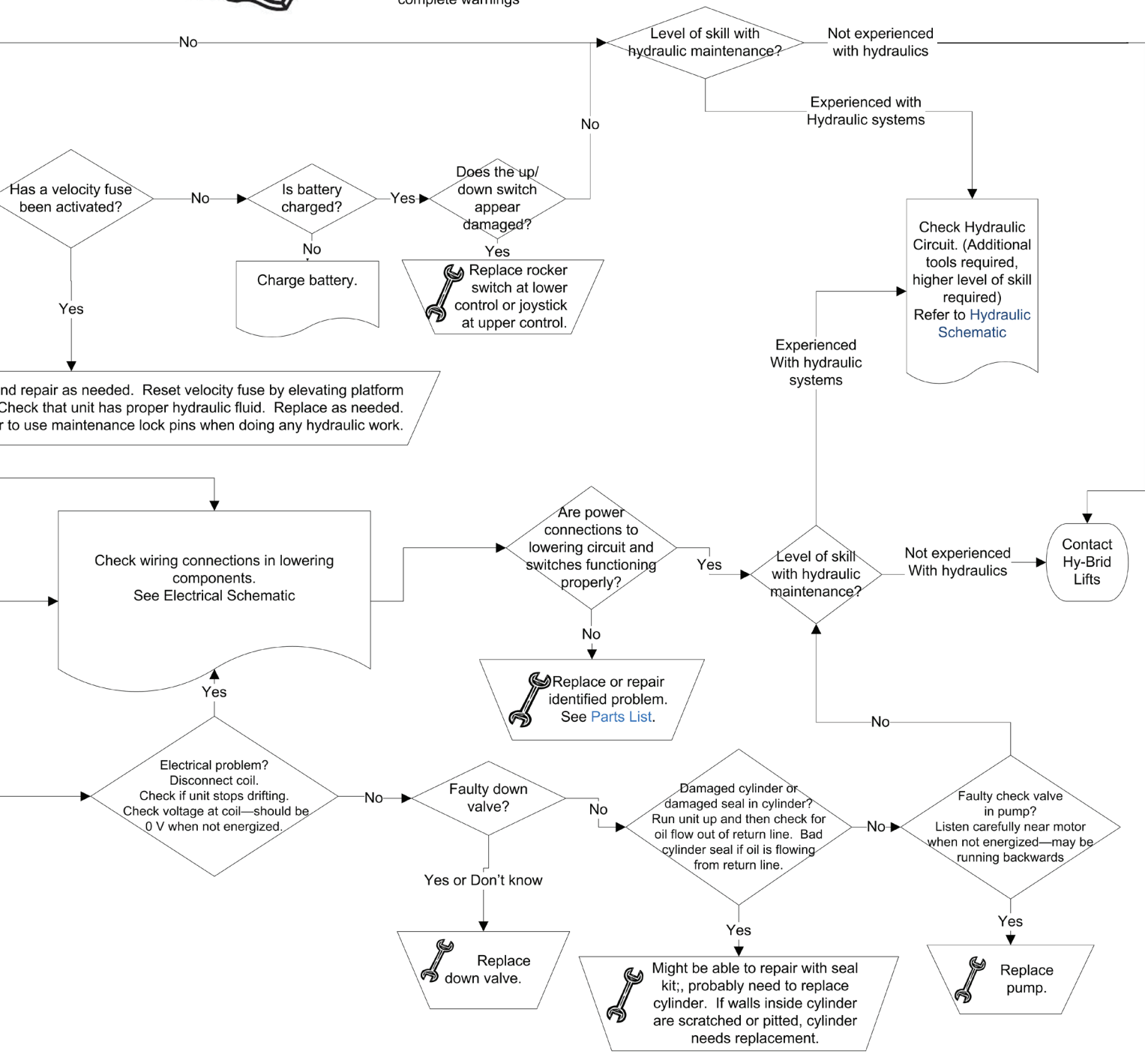


WARNING
Any modification on this machine without the express consent of the manufacturer is prohibited.

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 indentified 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 View To identify part number to order.
If any wiring or components have been altered from the original manufacture, problems may not be identifiable.



⚠ CAUTION

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

⚠ CAUTION

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.

Refer to the AXCS Equipment Operation and Safety Manual for decal part numbers and locations.

In addition to the decals listed in the Operation and Safety Manual, a partial list of replacement parts. These represent current model revisions.

Refer to our website, www.axcs.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
ALARM, CONTINUOUS	ELEC-635-4	
BOARD,DRIVE/LIFT CTL ZERO-TURN S6	129-21-617-50-K / 129-21-617-60-K	
BUTTON,PUSH/PULL RED E-STOP	ELEC-071-KIT	
BUTTON,PUSH/TWIST RED E-STOP	ELEC-065	USED ON SOME UPPER CONTROLS
CHARGER,24V	ELEC-795	
CORD,NEMA 5-15P/5-15R,12.0	ELEC-639	
CTL,ASM LWR	129-21-616-50	
CTL,ASM UPR	129-21-563-50	
CTL,WIRE HARNESS MAIN ZT-1230/ ZT-1630	129-21-634-50	
DECALS,ZT S6 ANSI	129-21-620-50/ 129-21-620-60	
DRIVE MOTOR,24VELE,HB AUB	ELEC-790	
HYDRAULIC OIL	HYDR-032	Not available as a replacement part. Replace with Flomite #150, Dexron II, Mobil-DTE 2 or equivalent.
MANUAL BOX	HARD-603	
SWITCH KNOB,MASTER DISCONNECT	ELEC-308	
SWITCH,KEY,MOMENTARY	ELEC-310	
SWITCH,LIMIT,ROT LVR,NO/NC PO	ELEC-123-5	
SWITCH,ROCKER DPDT	ELEC-133B	
WHL,12X4 NM RUBBER W/HUB	WHEE-302	
WHL,8X2,GREY NM RUBBER	WHEE-706-KIT	
ASM,SCISSOR CYL HB12-ANSI	129-21-623-50	
MANUAL,OPERATIONS ZERO-TURN SERIES 6	ZT6.0-S	

7.1 | LIMITED WARRANTY

Warranty Statement - Two Year Agreement

7.2 | 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 specifi cations 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.

7.3 | 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 modifi ed 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.

7.4 | 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 specifi cally identify the suspected defect, the original delivery date and complete Buyer identifi cation 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. 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 8.3 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.

7.5 | EXCLUSIVE WARRANTY REMEDIES

Exclusive Repair or Replace 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 8.1 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, re-manufactured 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 and labor charges, up to the Maximum Labor Amount determined in accordance with Section 8.5 of this Limited Warranty, necessary to remedy such defect.

Labor Charges

If fi eld repairs or parts replacement are necessary on any Product covered by this Limited Warranty, the Company will reimburse its designated authorized dealer for those direct labor costs incurred to perform such field repairs or parts replacement up to the maximum amount specifi ed in the Company's current Field Service Rate (hereinafter, the "FSR") or in any 'Flat Rate Guides' or similar agreement established with the authorized dealer (such maximum amount shall be referred to in this Limited Warranty as the "Maximum Labor Amount"). Current versions of the Company's FSR and Flat Rate Guides are incorporated by reference into this Limited Warranty. For a current copy of the Company's FSR and Flat Rate Guides, Buyer should contact the Company at 1-866-334-0756. Buyer shall be responsible for any costs or fees due to the authorized dealer in excess of the Maximum Labor Amount.

7.6 | 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 modifi cation is made in writing and signed by an officer of the company.

7.7 | LIMITATION OF LIABILITY

Notwithstanding anything in this warranty to the contrary, in no event shall the company or any of its affi liates 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.

Version 1.15.16

DATE	COMMENTS

DATE	COMMENTS

Self-Propelled
Mobile Elevated Work Platform
ZT-1230, ZT-1630

Maintenance & Troubleshooting
Manual

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"AXCS Equipment" & "Hy-Brid Lifts" are trademarks of Custom Equipment, LLC. These machines comply with ANSI/SAIA A92.20, CSA B354.6:17.

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