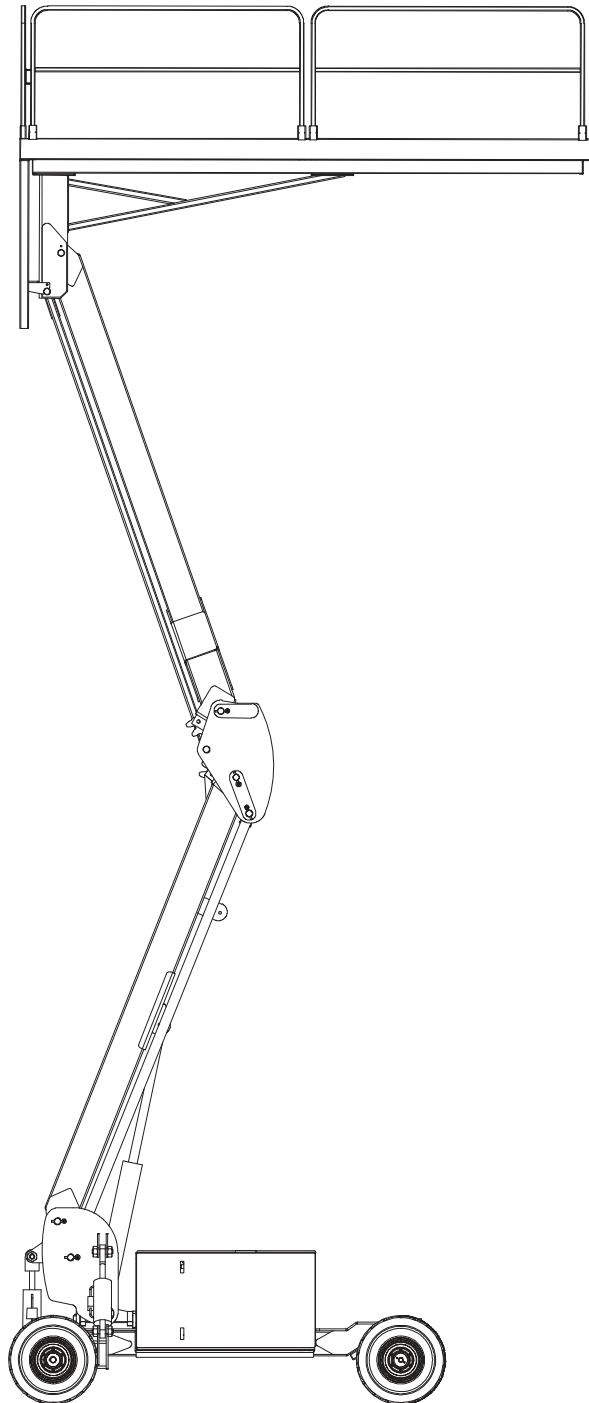




Operator's Manual

3084ES Speed Level™



3084ES Serial Number Range
11700000 - Up

Part # 91863
August 2020

Revision History

Date	Reason for Update
August 2020	Update to ANSI 92.20-2020



MEC Aerial Work Platforms

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Table of Contents

Section 1 - Introduction	1
<i>Introduction</i>	1
Section 2 - Safety	2
<i>Safety</i>	2
<i>Safety Alert Symbols & Fall Protection</i>	3
Section 3 - Specifications	4
<i>Specifications</i>	4
Section 4 - Hazards	5
<i>Electrocution Hazard</i>	5
<i>Minimum Safe Approach Distance</i>	6
<i>Tip-over Hazards</i>	8
<i>Fall Hazards & Collision Hazards</i>	10
<i>Additional Safety Hazards</i>	11
Section 5 - Jobsite Inspection	12
<i>Jobsite Inspection</i>	12
Section 6 - Function Tests and Operating Instructions	13
<i>Functions Test</i>	13
<i>Operating Instructions</i>	14
Section 7 - Emergency Systems	20
<i>Emergency Systems</i>	20
Section 8 - Fold Down Platform Railings	21
<i>Fold Down Platform Railings</i>	21
Section 9 - Machine Inspections	23
<i>Machine Inspections</i>	23
<i>Pre-Start Inspection Checklist</i>	25
<i>Monthly Inspection Checklist</i>	26
<i>Quarterly Inspection Checklist</i>	27
<i>Annual Inspection Report</i>	28
Section 10 - Maintenance	29
<i>Maintenance</i>	29
<i>Routine Maintenance</i>	31
<i>Support the Platform</i>	32
<i>Lubrication</i>	33
Section 11 - Battery Charger	34
<i>Battery Charger</i>	34
Section 12 - Component Locations	36
<i>Component Locations</i>	36
<i>Upper Controls</i>	38

<i>Lower Controls.</i>	39
Section 13 - Decals	40
<i>Decals</i>	40
Section 14 - Troubleshooting	44
<i>Troubleshooting</i>	44
Section 15 - Serial Plate.	45
<i>Serial Plate</i>	45
Section 16 - Transport and Lifting Instructions	46
<i>Transport and Lifting Instructions</i>	46
<i>Lifting and Tie Down Instructions</i>	48

Introduction

This Operator's Manual has been designed to provide you, the owner, user or operator, with the instructions and operating procedures essential to properly and safely operate your MEC Aerial Work Platform for positioning personnel, along with their necessary tools and materials, to overhead work locations.

This Operator's Manual and other manuals provided by MEC on the machine must be read and understood prior to operating your MEC Aerial Work Platform. The operator should not accept operating responsibility until he/she has read and understands the operator's manual as well as having operated the MEC Aerial Work Platform under supervision of an authorized, trained and qualified operator.



It is essential that the operator of the aerial work platform is not alone at the workplace during operation.

Modifications of this machine from the original design and specifications without written permission from MEC are strictly forbidden. A modification may compromise the safety of the machine, subjecting the platform occupants and personal around the machine to serious injury or death.

Your MEC Aerial Work Platform has been designed, built, and tested to provide safe, dependable service. Only authorized, trained and qualified personnel shall be allowed to operate or service the machine.

MEC, as manufacturer, has no direct control over machine application and operation. Proper safety practices are the responsibility of the owner, user and operator.

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



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Safety

DO NOT operate this machine until you have read and understood this manual, have performed the Workplace Inspection, Pre-Start Inspection and Routine Maintenance, and have completed all the test operations detailed in the Operating Instructions section.

Failure to read, understand and follow all safety rules, warnings, and instructions could result in serious injury or death. For your safety and the safety of those around you, you must operate your machine as instructed in this manual.

MEC designs aerial work platforms to safely and reliably position personnel, along with their necessary tools and materials, at overhead work locations. The owner/user/operator of the machine should not accept responsibility for the operation of the machine unless properly trained.

ANSI and other applicable standards identify requirements of all parties who may be involved with self-propelled elevating work platforms. The Manual of Responsibilities is considered a part of this machine and can be found in the manual compartment, located at the platform control station. To ensure safe use of machine, inspections and training specified in ANSI/SIA A92.22 & A92.24 must be performed at designated intervals as prescribed.



This product can expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Safety Alert Symbols & Fall Protection

MEC manuals and decals use symbols, colors and signal words to help you recognize important safety, operation and maintenance information.



RED and the word DANGER – Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



ORANGE and the word WARNING – Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



YELLOW with alert symbol and the word CAUTION – Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



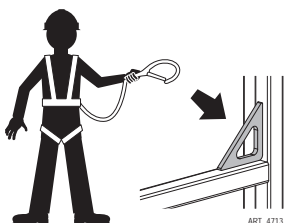
YELLOW without alert symbol and the word CAUTION – Indicates a potentially hazardous situation which, if not avoided, may result in property damage.



GREEN and the word NOTICE – Indicates operation or maintenance information.

Fall Protection

Operators must comply with employer, job site and governmental rules regarding the use of personal protective equipment.



If required by your employer or job site, use personal fall protection equipment (PFPE) when operating this machine.

All PFPE must comply with applicable governmental regulations, and must be inspected and used in accordance with the PFPE manufacturer's instructions.

Fall restraint must be properly attached to a designated anchorage point when driving or operating the machine. Attach only one fall restraint to each anchorage point.

Specifications

Working Height*		36 ft*	11.0 m*
Platform Height		30 ft	9.0 m
Stowed Height	Rails Up	105 in	2.67 m
	Rails Folded Down	70 in	1.78 m
Maximum Number of Occupants		5	
Lift Capacity (Evenly Distributed)		1,500 lb	680 kg
Platform Dimensions	Length (Inside Rails)	14 ft	4.27 m
	Platform Width (Inside Rails)	72 in	1.83 m
	Guardrail Height	43.5 in	1.1 m
	Toeboard Height	6 in	15 cm
Overall Length		14 ft 6 in	4.4 m
Overall Width		84 in	2.13 m
Wheel Base		100 in	2.54 m
Wheel Track		72.0 in	1.83 m
Turning Radius	Inside	8 ft 0 in	2.44 m
	Outside	16 ft 8 in	5.08 m
Ground Clearance		10 in	25 cm
Machine Weight** (Unloaded) (Approx.)		8,000 lb**	3,630 kg**
Drive System (Proportional)	Drive Speed (Platform Elevated)	0 – 0.75 mph	1.2 km/h
	Drive Speed (Platform Lowered)	0 – 4 mph	6.4 km/hr
Lift/Lower Speed (Approx.)		30 sec / 40 sec	
Gradeability		40%	21.8°
Ground Pressure/Wheel (Maximum)		87 psi	6.1 kg/cm²
Wheel Load		2,610 lb	1,186 kg
Tire Size-Standard		26 x 12D / 380NHS	
Tire Pressure, 12 Ply Pneumatic		45 psi	3.1 bar
Wheel Lug Nut Torque		75-85 ft/lb	102-115 Nm
Hydraulic Pressure	Main System	2,800 psi	193 bar
	Lift System	2,800 psi	193 bar
	Steer	2,000 psi	138 bar
Hydraulic Fluid Capacity		23 GAL	87 liters
Electric Motor		8 h.p. (6 kW): 3600 rpm	
Power Source – Voltage		48 Volts DC	
Batteries		Eight 6 Volt DC 350 amp hour industrial, deep cycle	
Battery Charger	Input	120 Volt AC, 50.60 Hz, 18 Amp—240 Volt AC, 50.60 Hz, 9 Amp	
	Output	48 Volt DC, 32 Amp, 1500 W, Timed Shutoff	
Leveling	Side to Side	14°	
	Front to Rear	10°	
Brakes		Multi-disc / Dual Rear Wheel	
Meets requirements of ANSI 92.20-2020 and CSA B354.6-2019.			
*Working height adds 6 feet (2 m) to platform height.			
**Weight may increase with certain options or country standards.			

Electrocution Hazard

ELECTROCUTION HAZARD!!! THIS MACHINE IS NOT INSULATED!

DEATH OR SERIOUS INJURY will result from contact with or inadequate clearance from any electrically charged conductor.



You must maintain a **CLEARANCE OF AT LEAST 10 FEET (3.05 m)** between any part of the machine, or its load, and any electrical line or apparatus carrying over 300 Volts up to 50,000 Volts. One foot (30.5 cm) additional clearance is required for every additional 30,000 Volts.

Observe Minimum Safe Approach Distance.

DO NOT work in close proximity to, or in contact with, energized power lines and electrical equipment. This machine is not insulated and WILL NOT protect the operator from injury or the machine from damage.

Refer to Table and all applicable governmental regulations for the minimum safe distances from energized power lines and electrical equipment.



Minimum Safe Approach Distance

Voltage	Minimum Safe Approach Distance	
Phase to Phase	Feet	Meters
0 to 300 Volts	Avoid Contact	
Over 300V to 50kv	10	3.05
Over 50KV to 200KV	15	4.60
Over 200KV to 350KV	20	6.10
Over 350KV to 500KV	25	7.62
Over 500KV to 750KV	35	10.67
Over 750KV to 1000KV	45	13.72

DO NOT touch the machine if it contacts energized power lines.

Personnel in the platform:

- Move away from the platform rails,
- DO NOT attempt to operate the machine, and
- DO NOT touch any part of the machine until energized power lines are shut off.

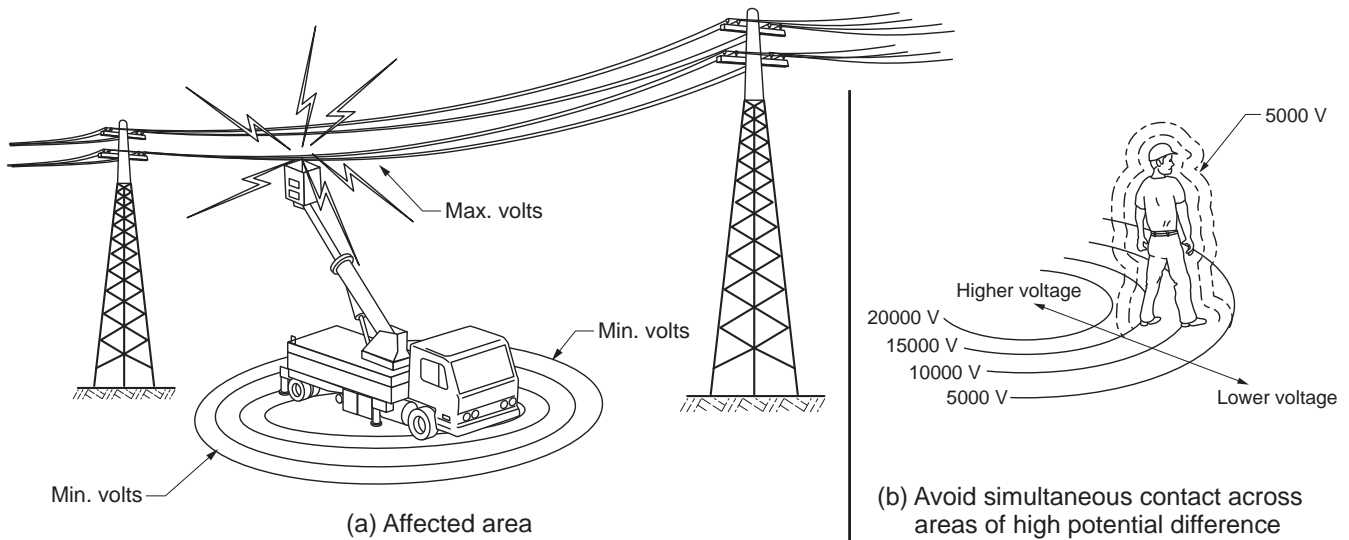
Personnel on the ground:

- DO NOT approach the machine and
- DO NOT touch or attempt to operate the machine until energized power lines are turned off.

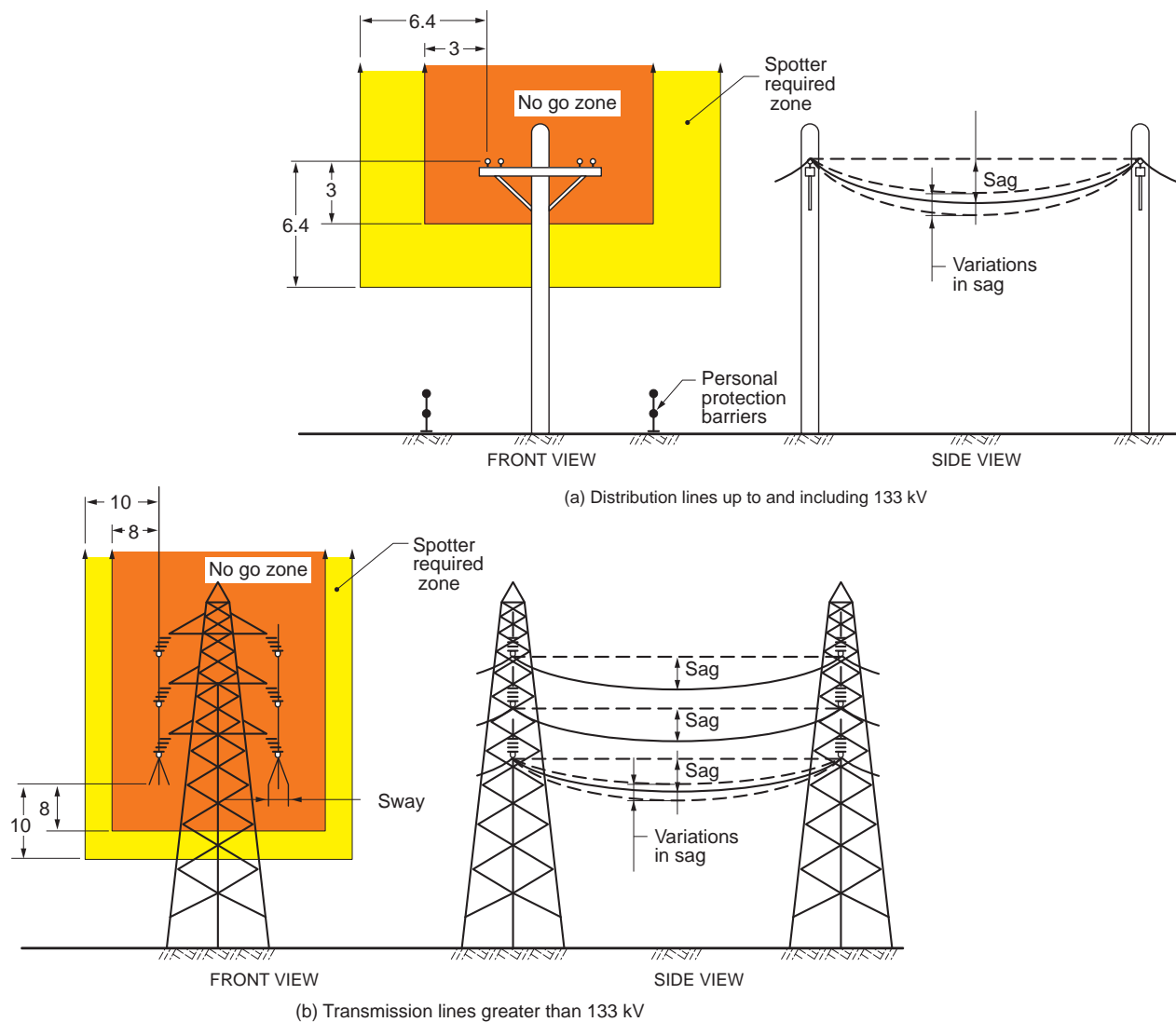
Do not operate the machine during electrical storms or lightning.

DO NOT use the machine as a ground for welding unless properly equipped with a weld line to platform option.

Minimum Safe Approach Distance



CLEARANCES FROM LIVE AERIAL CONDUCTORS



LEGEND

- = No shading, in the front views, indicates no proximity requirements
- = Light shading indicates spotter is required
- = Heavy shading indicates the NO GO ZONE

ART_3265

When working in the area of energized conductors the user shall direct and the operator shall comply with the requirements to:

- a. Stay at least 10 feet away from power lines with any part of their body, conductive object or any part of the MEWP.
- b. If work requires working nearer than 10 feet, stop and consult a qualified person with respect to electrical transmission and distribution to have appropriate measures taken (such as de-energizing and grounding).
- c. If there is a question that the power lines may carry more than 50kV, consult a qualified person with respect to electrical transmission and distribution before proceeding.
- d. If working or approaching closer than explained above, it shall only be done by a qualified person with respect to electrical transmission and distribution. Only qualified persons may work on electric circuit parts or equipment that has not been de-energized. Such persons shall be capable of working safely on energized circuits and shall be familiar with the proper use of special precautionary techniques, personal protective equipment, insulating and shielding materials and insulated tools.

Tip-over Hazards



ART_3065

DO NOT OVERLOAD

DO NOT exceed the maximum platform capacity (see Specifications). The weight of options and accessories will reduce the rated platform capacity and must be factored into the total platform load. Refer to the decals on the options.

DO NOT elevate the platform when the machine is on a surface that is soft, non-planar, or exceeds the leveling range of the machine.

The tilt alarm will sound when the machine is off level. If the alarm sounds when the platform is lowered, DO NOT attempt to elevate the platform. Carefully lower, re-level the machine, or move the machine to a surface within the leveling range.



ART_3064

**DO NOT ELEVATE
OR DRIVE ELEVATED
ON A SURFACE
THAT EXCEEDS THE
LEVELING RANGE**

If the alarm sounds when the platform is raised, use extreme caution to lower the platform.

Driving in stowed position: Use extreme care and slow speeds when driving across uneven terrain, debris, unstable or slippery surfaces, and near holes or drop-offs.

Driving with the platform elevated: DO NOT drive on or near uneven terrain, unstable surfaces or other hazardous conditions.



ART_3063

**DO NOT DRIVE
ELEVATED ON
IRREGULAR OR
UNSTABLE SURFACE**

DO NOT push off or pull toward any object outside the platform.

Maximum Allowable Side Force

ANSI and CSA	CE and AUS
250 lbs (1,100 N)	90 lbs (400 N)

DO NOT elevate the platform when wind speeds are in excess of 28 m.p.h. (12.5 m/s). If these wind speeds occur when the platform is elevated, carefully lower and discontinue operation.



ART_3069

**DO NOT PUSH OR PULL
OBJECTS OUTSIDE
PLATFORM**

DO NOT increase the surface area of the platform (i.e. cover the rails with tarp or plywood). Increased surface area exposed to the wind will decrease machine stability.

DO NOT attach overhanging loads or use the machine as a crane.

DO NOT transport tools and materials unless they are evenly distributed and can be safely handled by personnel in the platform. Secure all tools and loose materials to prevent injury to personnel below the platform.



ART_3071

**DO NOT ELEVATE IN
WINDY CONDITIONS**

DO NOT alter or disable machine components that may affect safety and stability.

DO NOT replace items critical to machine stability with items of different weight or specification.

DO NOT modify or alter the work platform without written permission from MEC, as modifications can increase weight and/or surface area resulting in instability.



ART_3059

**DO NOT USE AS
CRANE**

DO NOT place ladders or scaffolds in the platform or against any part of the machine.

DO NOT use the machine on a moving or mobile surface or vehicle.

Ensure that all tires are in good condition, air filled tires are properly inflated and lug nuts are properly torqued.

Fall Hazards & Collision Hazards

Fall Hazards



ART_3067

**DO NOT CLIMB ON
RAILS**

DO NOT sit, stand or climb on the platform guard rails. Maintain a firm footing on the platform floor at all times.

DO NOT exit the platform when elevated

DO NOT climb down from the platform when elevated.

Keep the platform floor clear of debris.

DO NOT fasten a fall restraint lanyard to an adjacent structure.

Ensure that the entry is properly closed before operating the machine.

Operators must comply with employer, job site and governmental rules regarding the use of personal protective equipment.



ART_3058

**DO NOT EXIT
PLATFORM WHEN
ELEVATED**

Collision Hazards



ART_3072

Be aware of blind spots while operating this machine.

Watch for overhead obstructions when elevating the platform.



ART_3062

Watch for crushing hazards when holding the platform rail.

Reduce travel speed when moving the machine on slopes, when near personnel and obstacles, or when surface conditions are wet, slippery or otherwise limiting.

DO NOT operate in the path of any crane unless the controls of the crane have been locked out and/or precautions have been taken to prevent any possible collision.



ART_3066

Stunt driving and horseplay are PROHIBITED.

Additional Safety Hazards

Explosion and Fire Hazards

- DO NOT operate the machine in hazardous locations or locations where potentially flammable or explosive gasses or particles may be present.

Damaged Machine Hazards

- Conduct a thorough pre-start inspection of the machine and test all functions before each work shift to check for damage, malfunction and unauthorized modification. Tag and remove a damaged, malfunctioning or modified machine from service. DO NOT use a damaged, malfunctioning or modified machine.
- Routine maintenance must be performed by the operator before each work shift. Scheduled maintenance must be performed by a qualified service technician at scheduled intervals. Tag and remove from service any machine that has not had scheduled preventative maintenance performed.
- Check that all safety and instructional decals are in place and undamaged.
- Check that the operator's, safety and responsibilities manuals are present in the storage container located in the platform. All manuals must be complete, undamaged and readable.

Bodily Injury Hazards

- DO NOT operate the machine when there is a hydraulic fluid or air leak. Hydraulic fluid or air under pressure can penetrate and/or burn skin.
- All compartments must remain closed and secure during machine operation. Improper contact with components under any cover will cause serious injury. Only trained maintenance personnel should access compartments. The operator should only access a compartment when performing pre-operation inspection.

Weld Line to Platform Safety (if equipped)

- Read, understand and follow all warnings and instructions provided with the welding power unit.
- DO NOT connect weld leads or cables unless the welding power unit is turned off at the platform controls.
- DO NOT operate unless the weld cables are properly connected.

Battery Safety

Burn Hazards

- Batteries contain acid. Always wear protective clothing and eye wear when working with batteries.
- Avoid spilling or contacting battery acid. Neutralize battery acid spills with baking soda and water.

Explosion Hazard

- Keep sparks, flame and lighted tobacco away from batteries. Batteries emit explosive gas.

Electrocution Hazard

- Avoid contact with electrical terminals.

Jobsite Inspection

DO NOT operate this machine until you have read and understood the **Safety** section of this manual, have performed the **Pre-Start Inspection, Routine Maintenance, and Functions Test**, have inspected the jobsite for hazards, and have learned the operating procedures for this machine.

Inspect the jobsite and determine whether the jobsite is suitable for safe machine operation. Do this before moving the machine to the jobsite.

Be aware of changing jobsite conditions, and continue to watch for hazards while operating the machine.

Operators must comply with employer, job site and governmental rules regarding the use of personal protective equipment – see “Fall Protection” on page 3.

Workplace Inspection

Check the jobsite where the machine will be used for all possible hazards, including but not limited to:

- Drop-offs or holes, including those concealed by water, ice, mud, etc.
- Unstable or slippery surfaces
- Bumps, surface obstructions and debris
- Overhead obstructions and electrical conductors
- Hazardous locations and atmospheres
- Inadequate surface and support to withstand all load forces imposed by the machine
- Wind and weather conditions
- The presence of unauthorized personnel
- Other possible unsafe conditions

Functions Test

DO NOT operate this machine until you have read and understood the **Safety** section of this manual, have performed the **Pre-Start Inspection**, **Routine Maintenance**, and **Functions Test**, have inspected the jobsite for hazards, and have learned the operating procedures for this machine.

The operator must conduct a Functions Test of the machine before each work shift to check that all machine systems are working properly.

Test the machine on a firm level surface with no debris, drop-offs, potholes or overhead obstructions. Perform each test outlined in Operating Instructions before using the machine.

DO NOT use a machine that is malfunctioning. If any function does not perform as described, tag the machine and remove for repair by a qualified service technician. After repairs are completed, a Pre-Start Inspection and Functions Test must be performed before using the machine.

Operating Instructions

DO NOT operate this machine until you have read and understood the **Safety** section of this manual, have performed the **Pre-Start Inspection**, **Routine Maintenance**, and **Functions Test**, have inspected the jobsite for hazards, and have learned the operating procedures for this machine.

This section provides instructions for each function of machine operation. Follow all safety rules and instructions.

This machine may be operated by trained and authorized personnel only. If multiple operators use this machine, all must be qualified and authorized to use it. New operators must perform a Pre-Start Inspection (see page 25) and Functions Test prior to operating the machine.

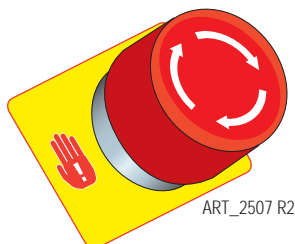
Operators must comply with employer, job site and governmental rules regarding the use of personal protective equipment – see “Fall Protection” on page 3.

Prestart

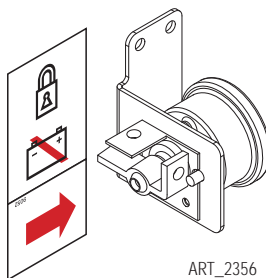


Perform Pre-Start Inspection (see page 25).

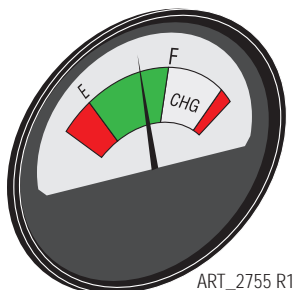
Check base control EMERGENCY STOP switch – turn clockwise to reset.



Check platform control EMERGENCY STOP switch – turn clockwise to reset.



Check Battery Disconnect switch in control module next to lower control box. Must be in ON position.

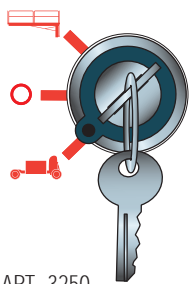


Check Charge Indicator on base control panel. Battery pack should be fully charged.

Note: If machine fails to operate, check the Diagnostic LED on the motor control processor inside the control module – see “Component Locations” on page 36.

Base Controls Operation and Test

IMPORTANT: Be sure the area above the machine is clear of obstructions to allow full elevation of platform.



ART_3250

Select BASE Operation

Turn the selector switch to BASE.



ART_2506 R2

Emergency Stop

Press the EMERGENCY STOP switch at any time to stop all machine functions.

Turn switch clockwise to reset.



ART_2519

Platform Overload Indicator

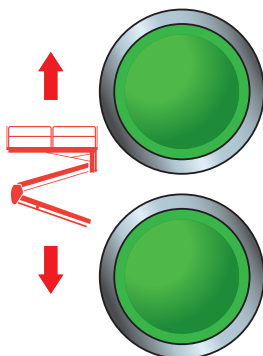
The Platform Overload Indicator will light and the platform will not lift when the sensor detects too much weight on the platform. Refer to the platform capacity labels and adjust the platform load accordingly.



Do not elevate the platform if the machine is not on a firm level surface.

Elevate Platform

- Press and hold the RAISE button on the base control panel to elevate the platform.



ART_3251

Test Operation

- Elevate to maximum height.
- Releasing the button will stop elevation.
- Pressing the EMERGENCY STOP switch will stop elevation.

Lower Platform

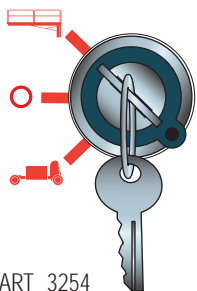
- Press the LOWER button. Release when the desired platform height is reached.

Test Operation

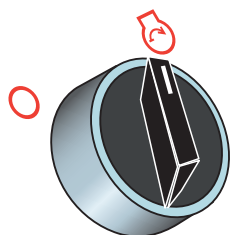
- Lower the platform to the stowed position.
- Releasing the button will stop descent.
- Pressing the EMERGENCY STOP switch will stop descent.

Platform Control Operation and Test

IMPORTANT: Check that the route of travel to be taken is clear of persons, obstructions, debris, holes, and drop-offs, and is capable of supporting the machine.

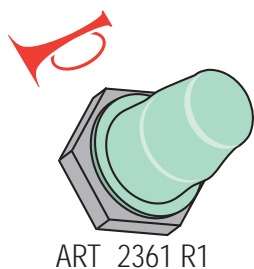
Select PLATFORM Operation**Lower Control Box**

Turn the selector switch to PLATFORM.

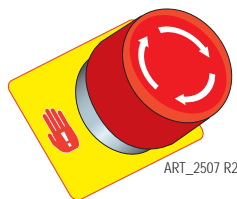
**Operate from Platform**

Enter the platform and secure the entry.

Turn the platform selector switch to the ON position.



Press the horn button to verify proper operation (optional).

**Emergency Stop**

Press the EMERGENCY STOP switch at any time to stop all machine functions.

Turn switch clockwise to reset.

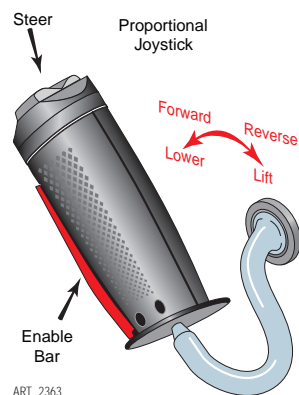
**Platform Overload Indicator**

The Platform Overload Indicator will light and the platform will not lift when the sensor detects too much weight on the platform. Refer to the platform capacity labels and adjust the platform load accordingly.



Activation of the EMERGENCY STOP switch will apply brakes immediately. This may cause unexpected platform movement as the machine comes to a sudden stop. Brace yourself and secure objects on the platform during operation of machine.

Joystick Operation



Function speed is proportional and is controlled by the movement of the joystick.

The further it is moved forward, the faster the speed will be.

The joystick returns to the neutral (center) position when released.

Do not elevate platform unless guardrails are installed and secure – see “Fold Down Platform Railings” on page 21.



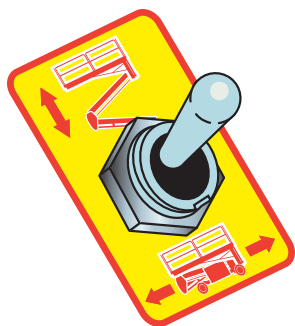
If the platform fails to lower DO NOT attempt to climb down the elevating assembly. Serious injury may result – see “Emergency Systems” on page 20.

Elevate Platform

- Place the MODE SELECT switch in the LIFT position.
- Squeeze the enable bar and move the joystick toward you.

Test Operation

- Rate of lift is proportional and is dependent on the movement of the joystick.
- Elevate to maximum height.
- Releasing the enable bar or the joystick will stop elevation.
- Pressing the EMERGENCY STOP switch will stop elevation.



ART_3259

Lower Platform

- Place the MODE SELECT switch in the LIFT position.
- Move the joystick away from you.

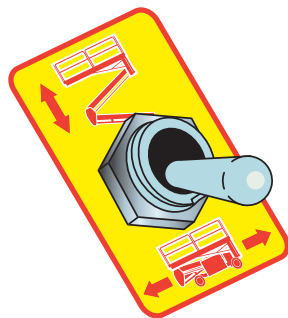
Test Operation

- Rate of descent is fixed - platform lowers at same rate regardless of handle position.
- Pressing the EMERGENCY STOP switch will stop descent.



Check that the route is clear of persons, obstructions, debris, holes and drop-offs, and is capable of supporting the machine.

IMPORTANT: Always check front steer wheel direction before driving.



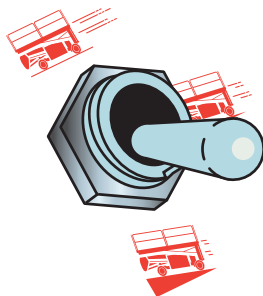
ART_3258

Steering

- Place the MODE SELECT switch in the DRIVE position.
- Squeeze the Enable Bar.
- Press the Steering Switch with your thumb to steer left or right.

Test Operation

- Releasing the Enable Bar or Steering Switch will stop steering function.
- The steer wheels do not automatically center after a turn. The steer wheels must be returned to the straight-ahead position with the steering switch.



ART_3260

Drive Torque (Speed Control)

Drive speed is selectable until the platform is elevated above 10 Feet (3 m). When the platform is elevated the machine defaults to MID RANGE and the switch is locked-out (non functioning).

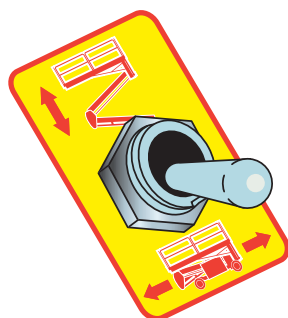
- HIGH SPEED: allows speeds up to 3 m.p.h. (4.8 km/h).
- MID RANGE: allows speeds up to 0.4 m.p.h. (0.6 km/h).
- HIGH TORQUE: use to drive up or down a slope that is too steep for normal speed.

Drive Forward

- Place the MODE SELECT switch in the DRIVE position.
- Squeeze the enable bar and move the joystick away from you.

Test Operation

- Drive speed is proportional and is dependent on the movement of the joystick.
- Releasing the enable bar or returning the joystick to the center position will stop drive.
- Pressing the EMERGENCY STOP switch will stop drive.



ART_3258

Drive Reverse

- Place the MODE SELECT switch in the DRIVE position.
- Squeeze the enable bar and move the joystick toward you.

Test Operation

- Drive speed is proportional and is dependent on the movement of the joystick.
- Releasing the enable bar or returning the joystick to the center position will stop drive.
- Pressing the EMERGENCY STOP switch will stop drive.

Brake

- For parking, the brake is automatically applied when the joystick is positioned in the neutral (center) position.

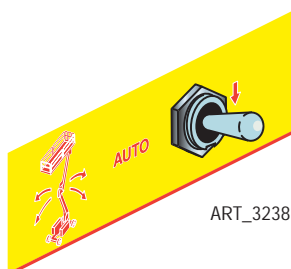
Leveling Procedure

Leveling of the machine can only be performed when the platform height is below the Stowed Height Limit Switch setting of approximately 10 feet (3 m).

When operating on a sloped surface, the platform can be brought to level using the AUTO LEVEL switch or the MANUAL LEVEL switches.



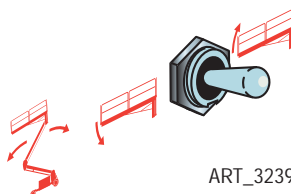
Do Not drive elevated across uneven terrain (see Tip-over Hazards on page 8).



Note: The platform will not elevate unless it is level.

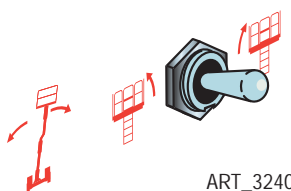
Auto Level

- Move the toggle switch DOWN to start leveling.
- Hold the toggle switch DOWN until leveling operation is complete.
 - When the platform reaches the level position, the TILT light will turn OFF and the machine will stop correcting.



Manual Level: Front to Rear

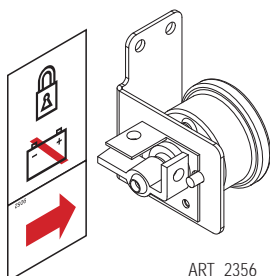
- **Tilt to Front:** Move and hold the toggle switch to the LEFT to tilt the platform to the desired position.
- **Tilt to Rear:** Move and hold the toggle switch to the RIGHT to tilt the platform to the desired position.



Manual Level: Side to Side

- **Tilt to Left:** Move and hold the toggle switch to the LEFT to tilt the platform to the desired position.
- **Tilt to Right:** Move and hold the toggle switch to the RIGHT to tilt the platform to the desired position.

Shutdown Procedure



- When finished with the machine, place the platform in the stowed position.
- Park the machine on a level surface.
- Turn the platform controls selector switch to the OFF position.
- Carefully exit the platform using a constant three (3) point dismount/grip.
- Turn the key switch to the OFF position and remove the key to prevent unauthorized use.
- Turn the battery disconnect switch to the OFF position.

Note: Leaving the battery disconnect switch in the ON position for an extended time will drain the battery. Always put the switch in OFF position when leaving the machine at the end of the work day.

- Put a padlock on the battery disconnect switch to prevent unauthorized operation.

Emergency Systems



If the control system fails while the platform is elevated, have an experienced operator use the emergency lowering procedure to safely lower the platform.

Do not attempt to climb down elevating assembly.

Emergency Stop

The machine is equipped with an EMERGENCY STOP switch on both control panels.

- Press the EMERGENCY STOP switch at any time to stop all machine functions.
- Turn switch clockwise to reset.

Selector Switch set to PLATFORM

- Either switch will stop all machine functions.
- Both switches must be reset or machine will not operate.

Selector Switch is set to BASE

- The upper controls are locked out.
- The lower switch must be reset or the machine will not operate.
- The machine will operate from the lower controls if the upper controls switch is tripped.

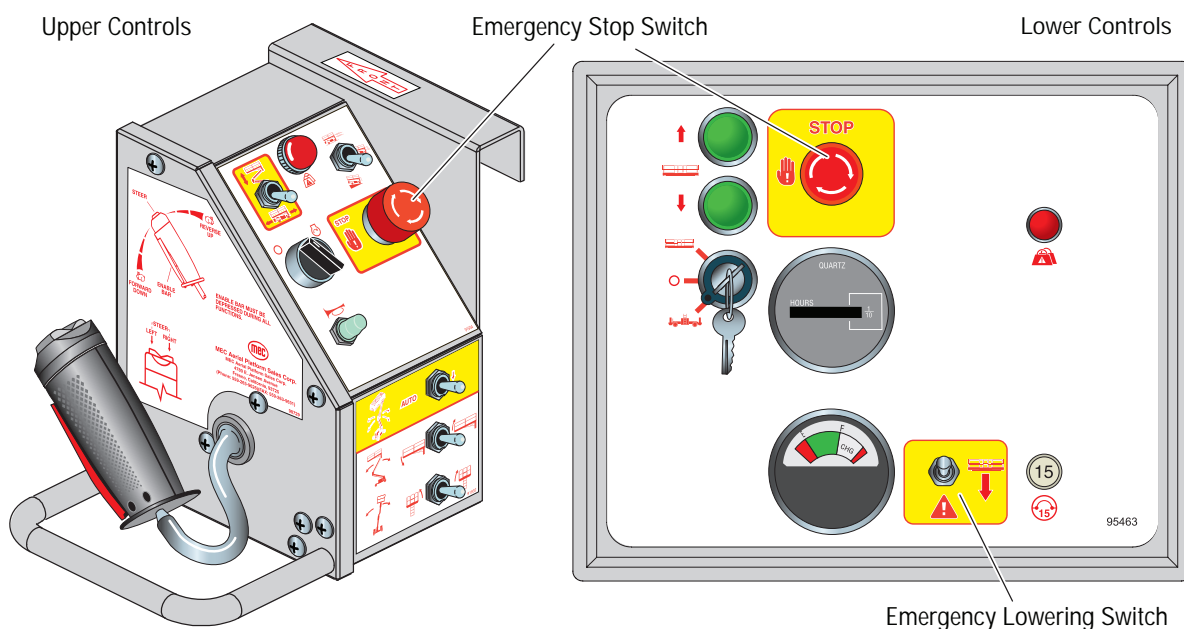
Emergency Lowering

The Emergency Lowering System is used to lower the platform in case of power or valve failure.

The Emergency Lowering switch will function if the EMERGENCY STOP switch is tripped.

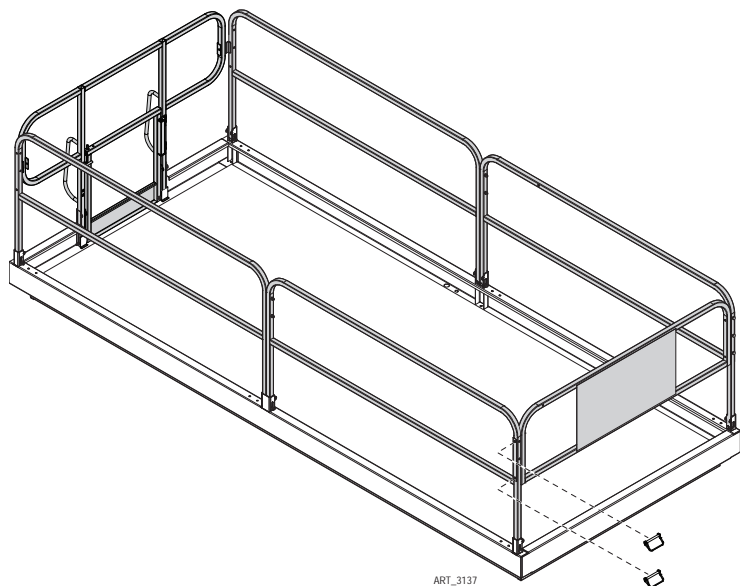
To lower the platform, perform the following steps:

- Push and hold the toggle switch down to lower the platform.
- Once the platform is fully lowered, release the toggle switch.



ART_3243

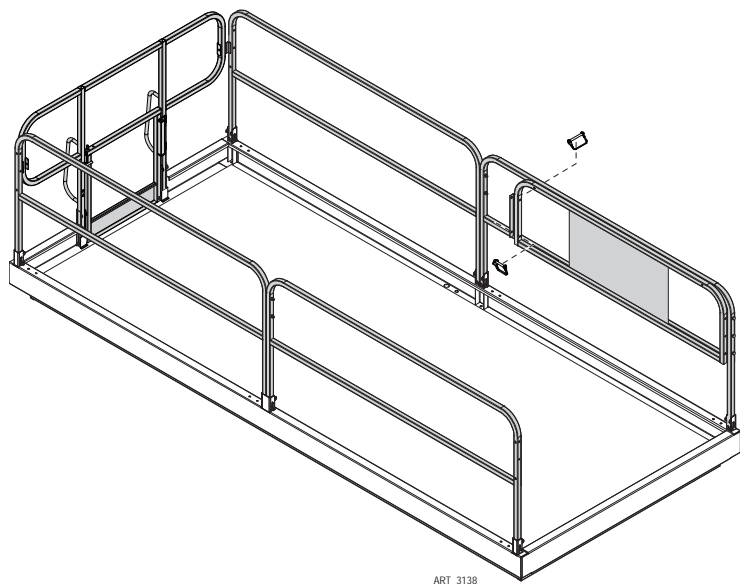
Fold Down Platform Railings



1

Open the Loading Gate

- Remove the 2 snap pins that hold the loading gate to the side guardrail.

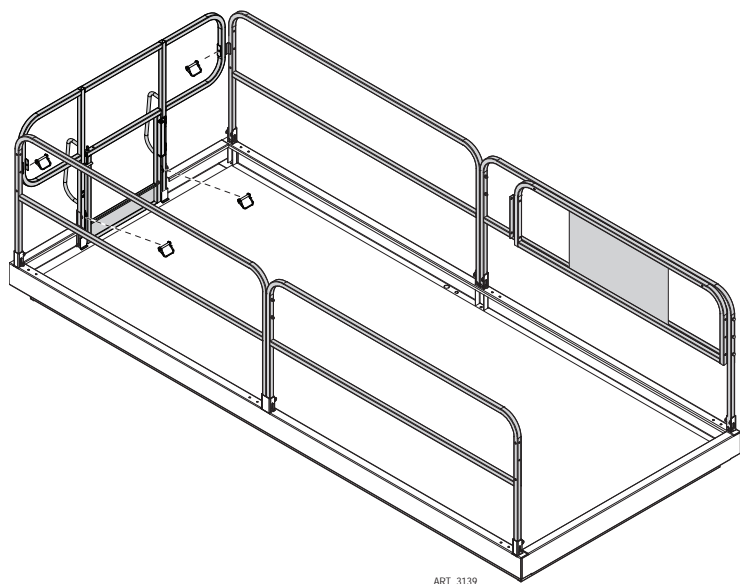


2

Secure the Loading Gate

Swing the loading gate open

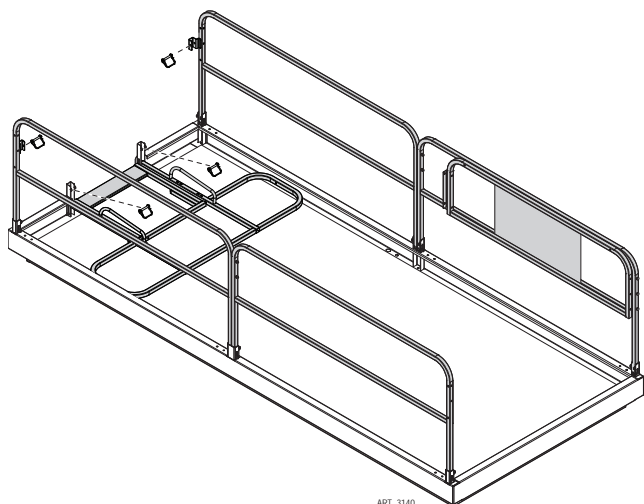
- Secure the gate to the side guardrail using 1 of the 2 snap pins.
- Return the other snap pin to its place.



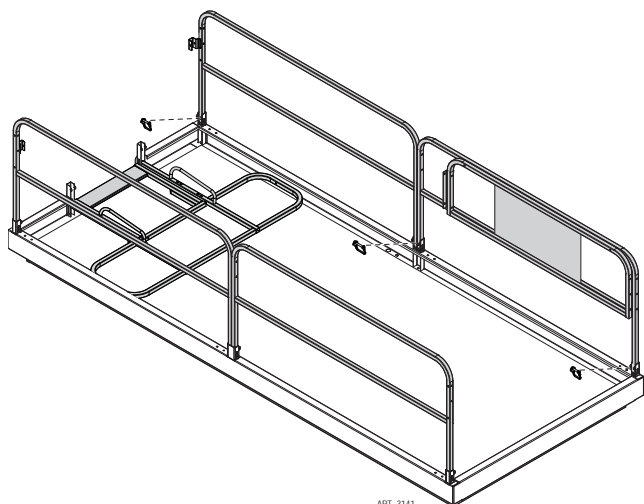
3

Release the Entry Rail

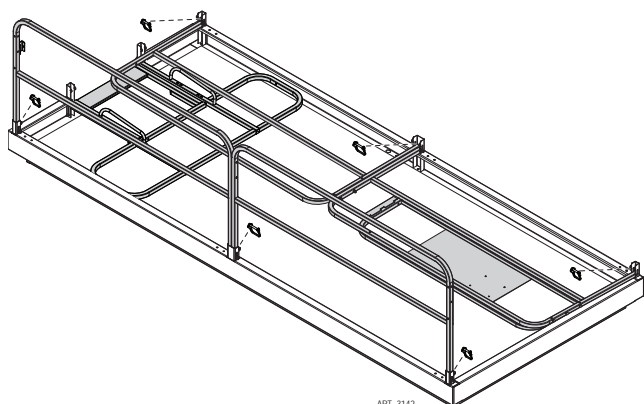
- Remove the 2 snap pins from the top corners of the entry guardrail.
- Remove the 2 snap pins from the base of the entry guardrail.

**4****Lower the Entry Rail**

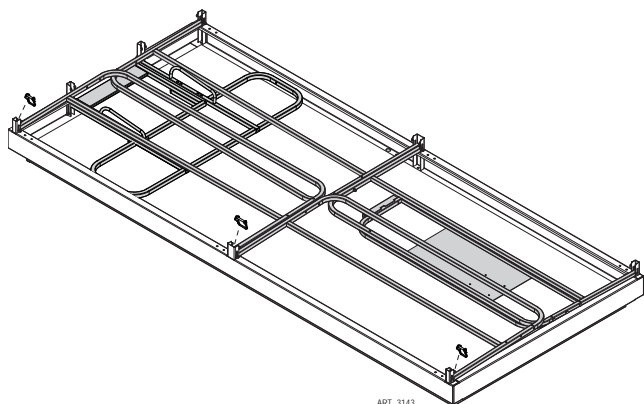
- Lower the entry guardrail to the platform floor.
- Return the snap pins to their places.

**5****Release Left Side Rail**

- Remove the 3 snap pins from the base the guardrail with the loading gate.

**6****Lower Left Side Rail**

- Lower the guardrail and loading gate to the platform floor.
- Return the snap pins to their places.

**7****Release and Lower Right Side Rail**

- Remove the 3 snap pins from the base of the right side guardrail.
- Lower the guardrail to the platform floor.
- Return the snap pins to their places.

Reverse the procedure to erect the guardrails.

Machine Inspections

DO NOT operate this machine until you have read and understood the Safety section of this manual, have performed the Pre-Start Inspection, Routine Maintenance, and Functions Test, have inspected the jobsite for hazards, and have learned the operating procedures for this machine.

The operator must conduct a thorough Pre-Start Inspection of the machine and test all functions before each work shift to check for damage, malfunction and unauthorized modification.

Tag and remove a damaged, malfunctioning or modified machine from service. DO NOT use a damaged, malfunctioning or modified machine.

Use the Pre-Start Inspection to determine what Routine Maintenance is required. The operator may perform only the routine maintenance items specified in this manual.

IMPORTANT: Scheduled maintenance inspection checklists are included in this manual for use only by qualified service technicians. Only qualified service technicians may perform repairs to the machine. After repairs are completed, the operator must perform a Pre-Start Inspection before proceeding to the Functions Test.

Never perform service on the machine with the platform elevated without first blocking the elevating assembly (see Support the Platform on page 32).

Never leave hydraulic components or hoses open. They must be protected from contamination (including rain) at all times.



Never open a hydraulic system when there are contaminants in the air.

Always clean the surrounding area before opening hydraulic systems.

Use only recommended lubricants. Improper lubricants or incompatible lubricants may be as harmful as no lubrication.

Watch for makeshift “fixes” which can jeopardize safety as well as lead to more costly repair.



Hydraulic fluid under pressure can penetrate and burn skin, damage eyes, and may cause serious injury, blindness, and even death. Correct leaks immediately.



Failure to perform preventive maintenance at recommended intervals may result in the unit being operated with a defect that could result in injury or death of the operator.

Immediately report to your supervisor any Defect or malfunction. Any defect shall be repaired prior to continued use of the aerial work platform.



Inspection and maintenance should be performed by qualified personnel familiar with the equipment.

Fluid leaks under pressure may not always be visible. Check for pin hole leaks with a piece of cardboard, not your hand.

Pre-Start Inspection Checklist

The operator must conduct a thorough Pre-Start Inspection of the machine before each work shift – see “Machine Inspections” on page 23.

General Inspection Checklist

- _____ Check that the operator's, safety, and responsibilities manuals are in the storage container located on the platform.
- _____ Perform a visual inspection of all machine components. Look for missing parts, torn or loose hoses, hydraulic fluid leaks, torn or disconnected wires, damaged tires etc.
- _____ Check all structural components of the machine for cracked welds, corrosion and collision damage.
- _____ Check all hoses and the cables for worn or chafed areas.
- _____ Check the platform rails and sliding mid-rail entry for damage or modification
- _____ Check that all warning and instructional labels are legible and secure.
- _____ Check the tires for damage.
- _____ Check the tire pressure (not required for foam filled tires).
- _____ Check the lower limit switch for visual damage or loose or missing hardware.
- _____ All structural components, pins and fasteners are present and properly tightened.

Fluid Level Checklist

- _____ Check for fluid leaks.
- _____ Hydraulic fluid level (check with platform fully lowered).

Secure for operation

- _____ Secure all covers and panels. Perform Routine Maintenance as needed, then proceed to the Functions Test.

Monthly Inspection Checklist



This checklist must be used at monthly intervals or every 100 hours of machine use, whichever occurs first. Failure to do so could result in death or serious injury.

Scheduled Maintenance Inspections should be conducted by qualified service technicians only. Photocopy this page for reuse. Keep inspections records up to date. Record and report all discrepancies to your supervisor.

Model Number _____ **Serial Number** _____

- _____ Perform all checks listed on Prestart Inspection.
- _____ Inspect the condition of hydraulic fluid in the reservoir. Oil should have a clear amber color.
- _____ Check battery electrolyte level and connections.
- _____ Check wheel lug nuts for proper torque (see Specifications).
- _____ Check if tires are leaning in or out.
- _____ Inspect all beams and pivot points for signs of wear and/or damage.
- _____ Check the pin joints and retaining rings for security.
- _____ Inspect the entire machine for signs of damage, broken welds, loose bolts, improper or makeshift repairs.
- _____ Check that the platform does not drift down with a full load.
- _____ Lubricate the king pins, steering cylinder pivot points, and tie rod ends (see Lubrication on page 33).
- _____ Check all wire connections.
- _____ Check that all adjustable flow valves are locked, check setting if any are not locked.
- _____ Lubricate the boom gear (see Lubrication on page 33).

DATE _____ **INSPECTED BY** _____

Quarterly Inspection Checklist



This checklist must be used at quarterly intervals or every 300 hours of machine use, whichever occurs first. Failure to do so could result in death or serious injury.

Scheduled Maintenance Inspections should be conducted by qualified service technicians only. Photocopy this page for reuse. Keep inspections records up to date. Record and report all discrepancies to your supervisor.

Model Number _____ **Serial Number** _____

- _____ Perform all checks listed on Prestart/Monthly Inspection.
- _____ Check the operation speeds to ensure they are within specified limits (see Specifications).
- _____ Check the emergency lowering system.
 - _____ Clean and lubricate all push button switches with dry lubricant and ensure that the switches operate freely in all positions.
- _____ Check the tightness of the platform frame and the linkage pins.
- _____ Check the overall platform and guardrail component stability.
- _____ Check the electrical mounting and hardware connections for security.
- _____ Check the king pins for excessive play.

Additional maintenance requirements for severe conditions

- _____ Replace hydraulic filter element (under normal conditions replace every six [6] months).

DATE _____ **INSPECTED BY** _____

Annual Inspection Report



Aerial Platform Sales Corp

1401 South Madera Avenue, Kerman, California 93630, USA

Tel: 559.842.1500 Toll Free: 1.877.632.5438 Fax: 559.842.1520

Email: info@MECawp.com

Web: www.MECawp.com

"Y"	Yes/Acceptable
"N"	No/Unacceptable
"R"	Repaired
"U"	Unnecessary/Not Applicable

Date		Customer		Dealer	
Serial Number		Street		Street	
Model Number		City/State/Zip		City/State/Zip	
Date of Last Inspection		Phone Number		Phone Number	
Date Placed in Service		Contact		Contact	

- Check each item listed below.
- Use proper Operator's and, Service & Parts 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.

	Y	N	R	U		Y	N	R	U		Y	N	R	U
Decals:					Base:					Operation:				
Proper Placement/Quantity					Cover Panels Secure					Wires Tight				
Legibility					Base Fasteners Tight					Switches Secure				
Correct Capacity Noted					Bolts Tight					All Functions Operational				
Rails:					Front Axle Mounting (4WD)					Emergency Down:				
All Rail Fasteners Secure					Rear Axle Mounting (4WD)					Operational				
Entry Gate/Chain Closes Properly					Front Axle/Front Wheel Assemblies:					Slow Speed Limit Switch:				
Manual/Safety Data In Box					Wheel Motors-Mounting Secure					Set Properly				
Rear Rail Pad In Place					Wheel Motors-Leaks					Pothole Bars:				
Extending Platform:					Lug Nuts Torqued Properly					Operate Smoothly				
Slides Freely					Steering Cylinder Pins Secure					Lock In Place				
Latches In Stowed Position					Pivot Points Lubed					Limit Switches Adjusted				
Latches In Extended Position					Drive Assembly Front Hubs:					Pressures & Hydraulics:				
Rail Latches Work Properly					Castle Nut Torqued Properly					Oil Filter Secure/Chg				
Cable Secure					Cotter Pinned					Oil Level Correct/Chg				
Platform:					Rear Axle/Rear Wheel Assemblies:					Steering Pressure Set				
Platform Bolts Tight					Brakes Operational					Drive Pressure Set				
Platform Structure					Wheel Motors-Mounting Secure					Lift Pressure Set				
Platform Overload System:					Wheel Motors-Leaks					Engine:				
Functional					Lug Nuts Torqued Properly					Engine Mounts Tight				
Calibrated					Axle Pivot Lubed (4WD)					Fuel Lines Secure				
Wire Harnesses:					Axle Lock Operational					Fuel Lines Free Of Leaks				
Mounted Correctly					Component Area:					Fuel Tanks Secure				
Physical Appearance					Valve Manifold(s) Secure					Fuel Shut Off Valves Func.				
110/220V Outlet Safe/Working					Hoses Tight/No Leaks					All Shields/Guards In Place				
Elevating Assembly:					D/C Mtr(s) Secure/Operational					Oil Level				
Beam Structures					Contactors Secure					Oil Filter				
Welds					Pump Secure					Air Filter				
Retaining Rings					Batteries:					Options Operational:				
Upper Cylinder Pins Secure					Secure					Hour Meter				
Lower Cylinder Pins Secure					Fully Charged					Battery Indicator				
Lower Beam Mounts tight					Battery Charger:					Warning Light				
Rollers Turn Freely					Secure					Warning Horn				
Maintenance Locks:					Operational					Generator				
Secure					Emergency Stop:					Converter				
Operational					Breaks All Circuits									

Signature/Owner-User: _____ Date: _____

Signature/Mechanic: _____ Date: _____



Maintenance

DO NOT operate this machine until you have read and understood the Safety section of this manual, have performed the Pre-Start Inspection, Routine Maintenance, and Functions Test, have inspected the jobsite for hazards, and have learned the operating procedures for this machine.

Tag and remove a damaged, malfunctioning or modified machine from service. DO NOT use a damaged, malfunctioning or modified machine.

Use the Pre-Start Inspection to determine what Routine Maintenance is required. The operator may perform only the routine maintenance items specified in this manual.

IMPORTANT: Scheduled maintenance inspection checklists are included in this manual for use only by qualified service technicians. Only qualified service technicians may perform repairs to the machine. After repairs are completed, the operator must perform a Pre-Start Inspection before proceeding to the Functions Test.

Never perform service on the machine with the platform elevated without first blocking the elevating assembly (see Support the Platform on page 32).

Never leave hydraulic components or hoses open. They must be protected from contamination (including rain) at all times.



Never open a hydraulic system when there are contaminants in the air.

Always clean the surrounding area before opening hydraulic systems.

Use only recommended lubricants. Improper lubricants or incompatible lubricants may be as harmful as no lubrication.

Watch for makeshift “fixes” which can jeopardize safety as well as lead to more costly repair.



Hydraulic fluid under pressure can penetrate and burn skin, damage eyes, and may cause serious injury, blindness, and even death. Correct leaks immediately.

Failure to perform preventive maintenance at recommended intervals may result in the unit being operated with a defect that could result in injury or death of the operator.



Immediately report to your supervisor any Defect or malfunction. Any defect shall be repaired prior to continued use of the aerial work platform.

Inspection and maintenance should be performed by qualified personnel familiar with the equipment.

**CAUTION**

Fluid leaks under pressure may not always be visible. Check for pin hole leaks with a piece of cardboard, not your hand.

Routine Maintenance

IMPORTANT: The operator may perform routine maintenance only. Scheduled maintenance must be performed by qualified service technicians.

Charge Batteries

- See Charge Batteries on page 35

Pre-Start Inspection

- Perform routine maintenance as identified in the Pre-Start Inspection Checklist on page 25.

Scheduled Maintenance

Maintenance performed monthly, quarterly, annually and biannually must be performed by a qualified service technician trained and authorized to perform maintenance on this machine, and must be done in accordance with the procedures outlined in the service manual. Scheduled maintenance inspection checklists are included in this manual for use by qualified service technicians.

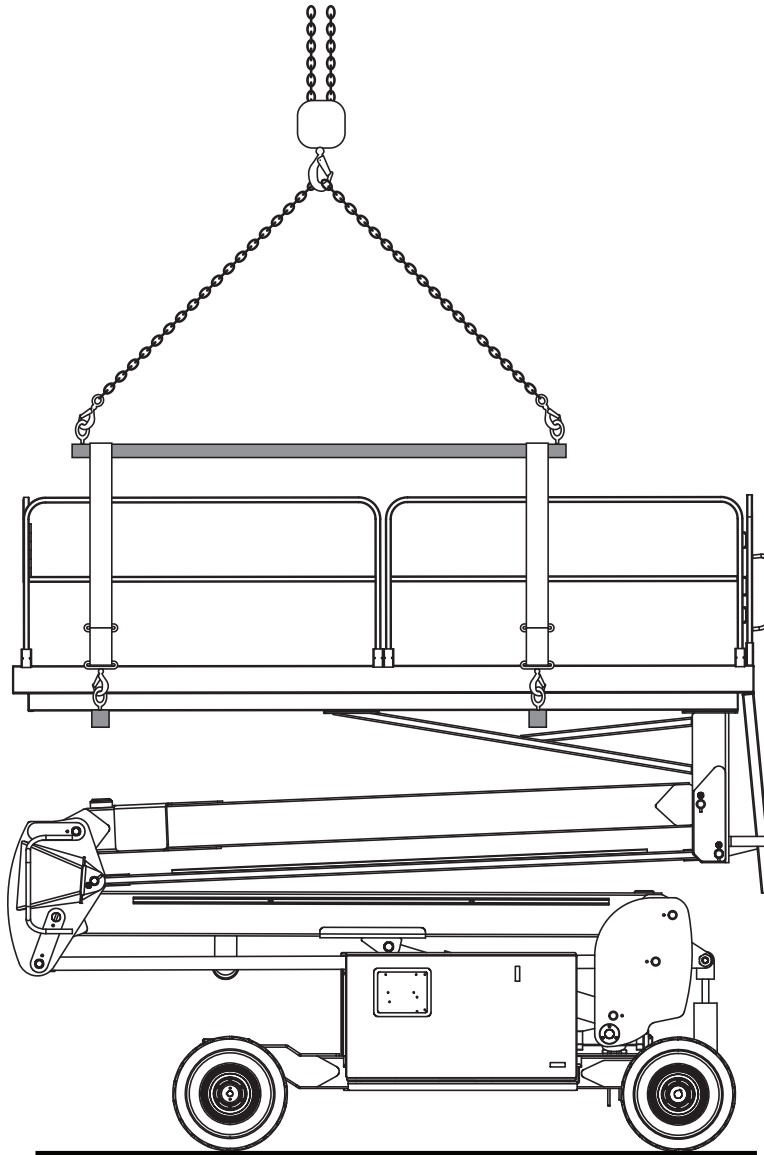
Machines that have been out of service for more than three months must receive the quarterly inspection before returning to service.

Support the Platform



Never perform service on the machine with the platform elevated without first supporting the elevating assembly.

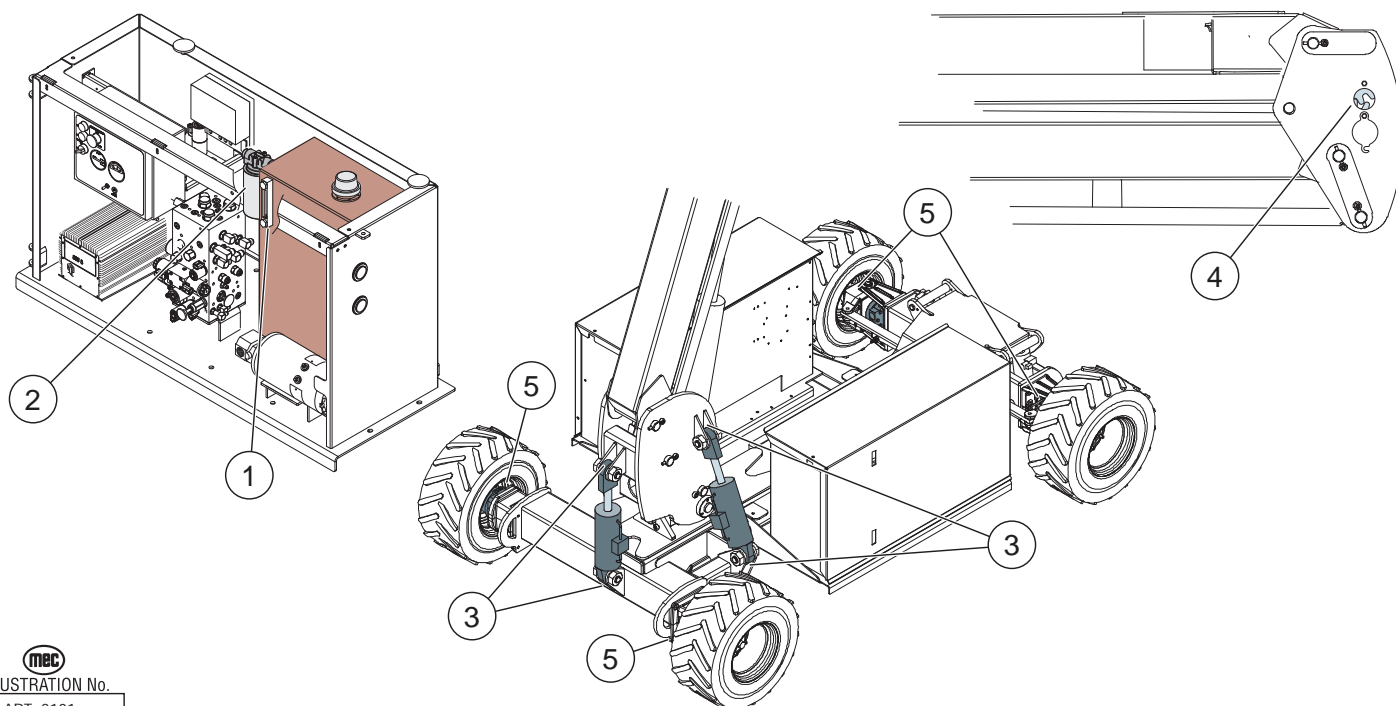
Use a crane with chains and straps of adequate lifting capacity to support the platform.



Art_3098

Lubrication

Operator may perform routine maintenance only. Lubrication listed as Scheduled Maintenance must be performed by a qualified service technician.



mec
ILLUSTRATION No.
ART_3101

No.	Item	Specification	Frequency
1	Hydraulic Reservoir	Mobile Fluid DTE 10, DTE 13 M, or AW32 <i>Do not substitute with lower grade fluids as pump damage may result.</i> Fill to the middle of the sight gauge with platform in the stowed position.	Routine Maintenance Check Daily Scheduled Maintenance Change yearly or every 1000 hours, whichever occurs first
2	Hydraulic Filter	Filter Element	Scheduled Maintenance Normal Conditions Change every six months or 500 hours, whichever occurs first Severe Conditions Change every three months or 300 hours, whichever occurs first
3	Tilt Cylinders Pivot Points	Lithium N.L.G. #2 EP Purge old grease	Scheduled Maintenance Normal Conditions Apply every 6 months or 500 hours, whichever occurs first Severe Conditions Apply every 3 months or 250 hours, whichever occurs first
4	Boom Gear	High copper content anti-sieze compound. Apply new grease	Scheduled Maintenance Normal Conditions Apply every 1 months or 100 hours, whichever occurs first Severe Conditions Apply every 2 weeks or 50 hours, whichever occurs first

Battery Charger

The charger is an advanced, microprocessor controlled, high frequency switching type charger.

The charger will work even with batteries in a severe discharge state with battery terminal voltages as low as 4V. This reduces the need to “boost charge” weak batteries before charging.

The charger has a 22 hour timer in case charging can not be completed due to battery problems. The charger senses and flashes error codes for problems – refer to the SERVICE MANUAL.

Battery charger LEDs can be viewed through a window in the door of the Control Module.

IMPORTANT: Unit will not operate when charger is plugged in. Be sure to disconnect the charger from the outlet before attempting to operate the unit.

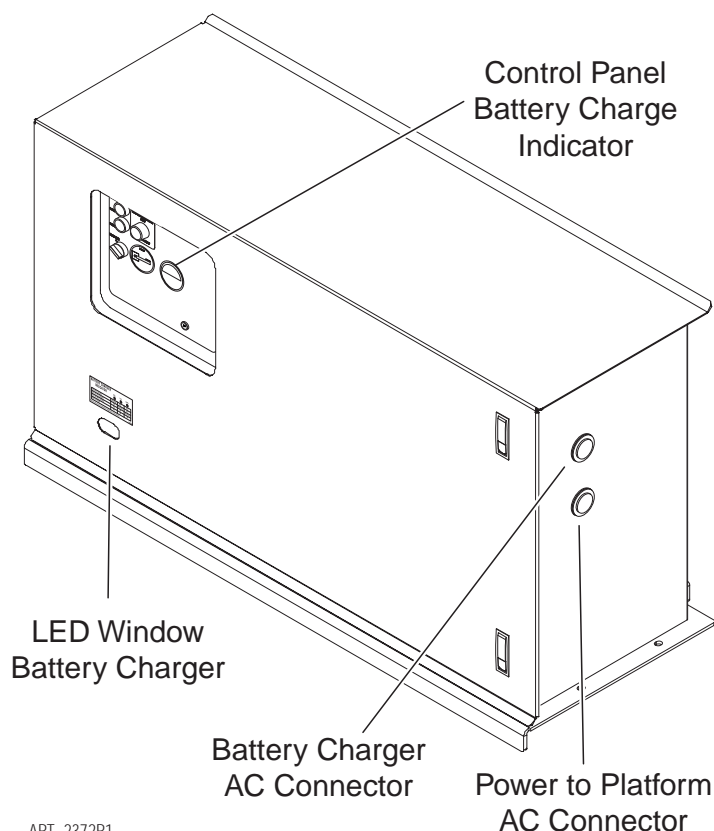
Lead-acid batteries generate explosive gases. Keep sparks and flame away from batteries.

No Smoking!

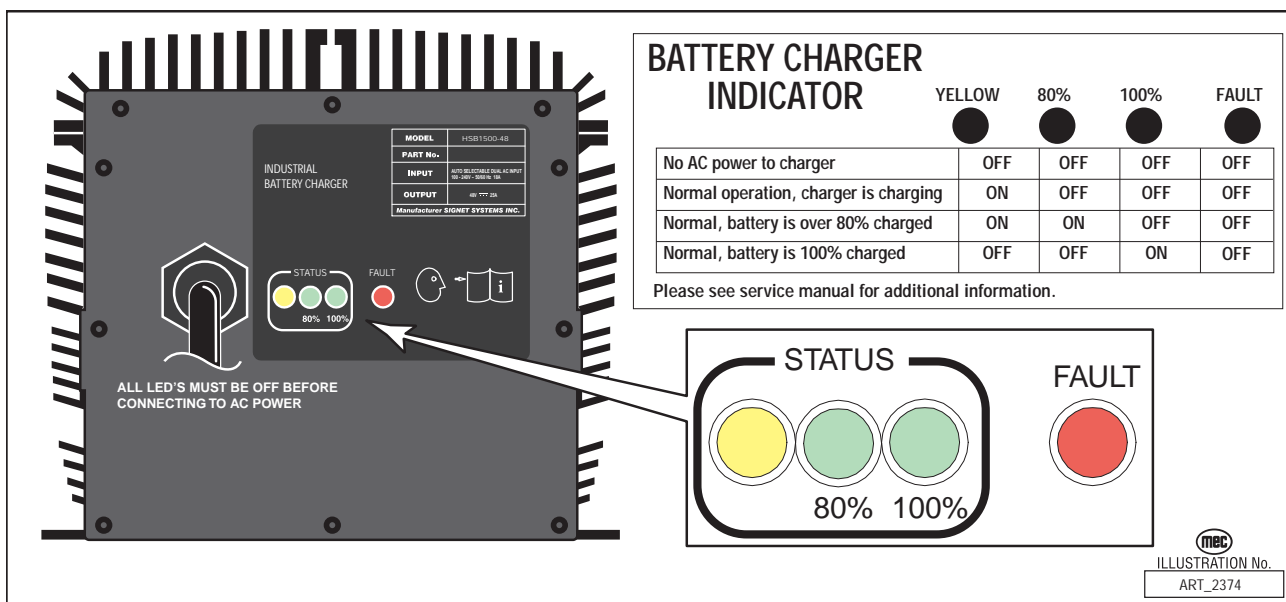


The charger surface can get hot while operating. Contact with the skin or surrounding materials should be avoided.

To reduce the risk of an electric shock, connect only to a properly grounded single-phase (3 wire) outlet.



ART_2372R1



Charge Batteries

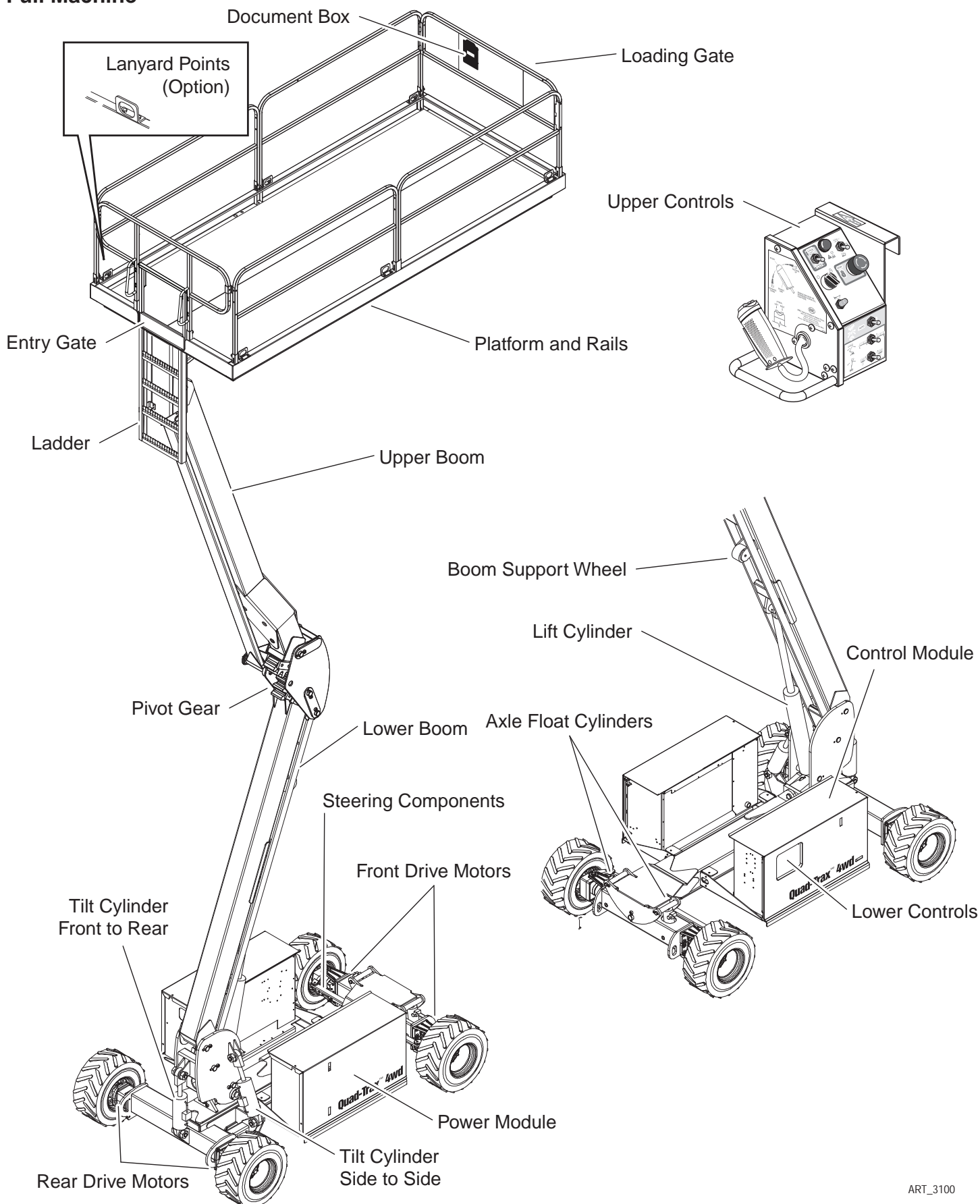
1. Plug the charger into a single phase AC socket with a nominal voltage rating of 100V, 110V, 115V, 120V, 220V, 230V, or 240V and a frequency rating of 50 or 60Hz.
 - The charger automatically senses and adjusts to the AC voltage and frequency.
 - At 110/120V the wall socket circuit breaker should be a 20A breaker with no other loads on the circuit.
2. The charger will start automatically within a few seconds and begin charging the batteries.
3. The LED's indicate the charging progress.
 - The yellow LED will turn ON and remain ON throughout the charging cycle.
 - When the battery is 80% charged the green 80% LED will turn ON.
 - When the battery is fully charged the green 100% LED will turn ON and the green 80% LED will turn OFF.
 - When the battery is fully charged the yellow LED will turn OFF indicating that the charger is no longer charging.
 - Charging time is dependent on depth of battery discharge, battery condition, and temperature.
 - If the charger is left plugged in after charging is complete (100% LED ON) the charger goes into maintenance mode to keep batteries charged while in storage.
 - The charger continuously measures battery voltage and restarts the charging cycle if the battery voltage drops below about 50V. This keeps batteries charged while in storage but does not boil-out the electrolyte over time.
4. Red FAULT LED
 - **ON:** Battery pack probably bad, weak, or a bad cell.
 - **1 FLASH:** Open or short circuit. Remove from service until problem is identified and corrected.
 - **2 FLASH:** Charger timed out. Battery pack probably bad, weak, or a bad cell. Unplug for 30 seconds, then plug in to start a new charge cycle.

Note: New batteries sometimes need 20 to 30 charge/discharge cycles before they charge normally. The charger LEDs may only show yellow or 80% LED ON after overnight charging. Within a few weeks the 100% LED will turn ON at the end of the charge cycle.

5. Turn OFF charger by unplugging (disconnect from AC voltage).

Component Locations

Full Machine



ART_3100

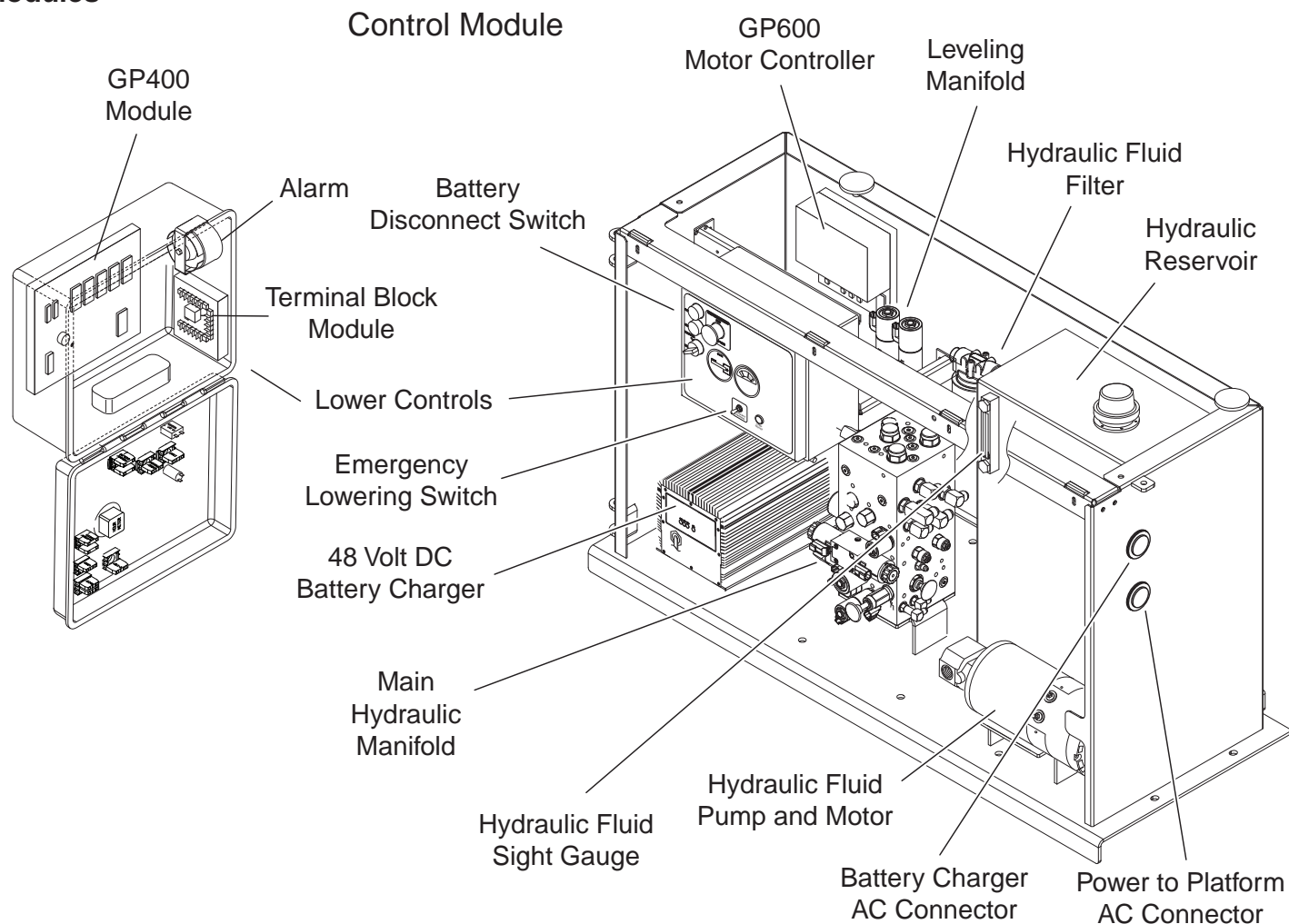
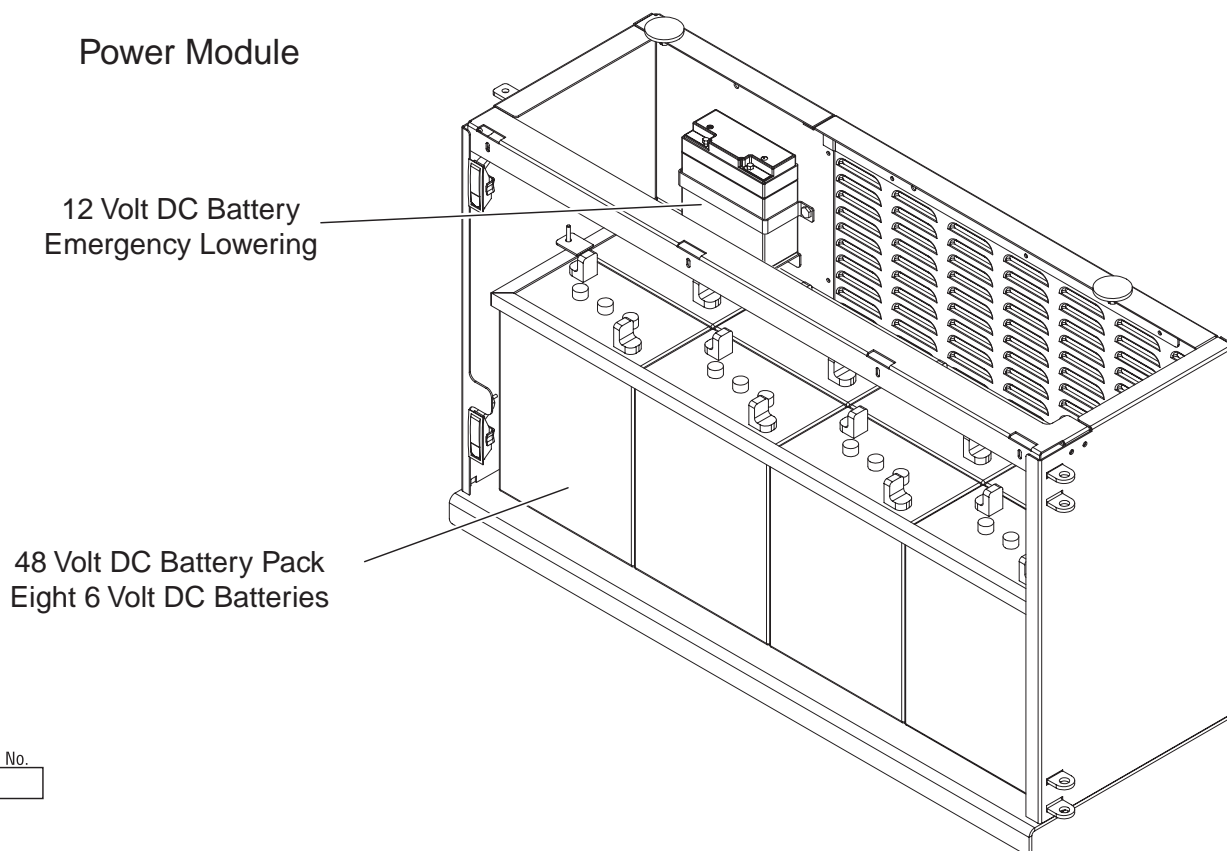
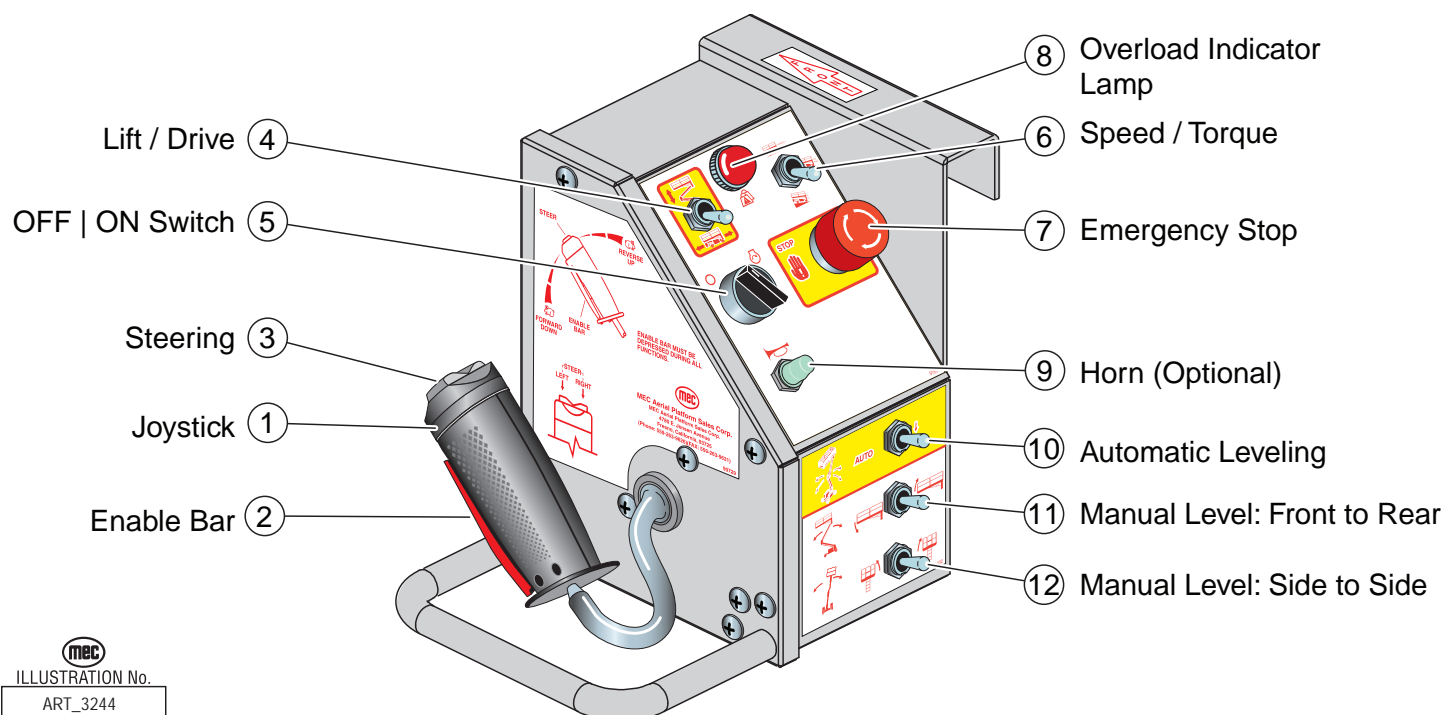
Modules**Power Module**

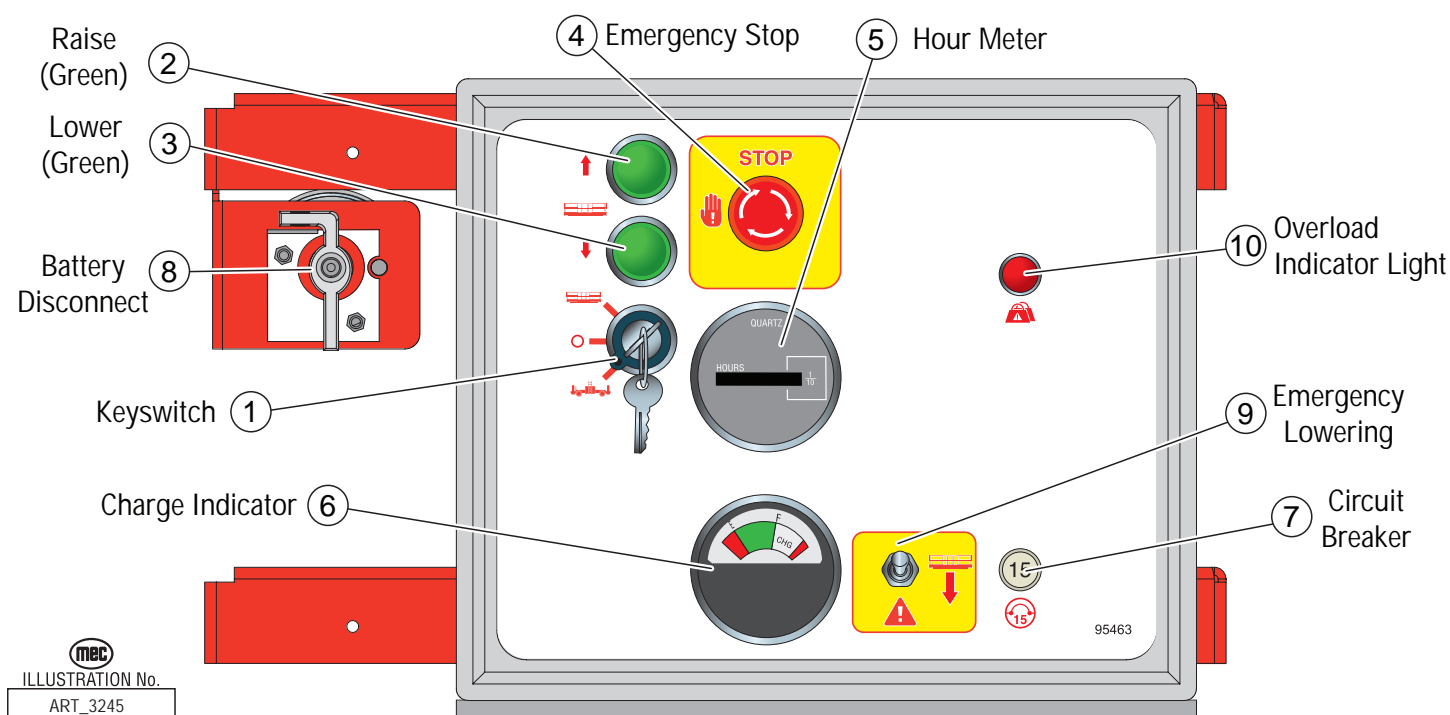
ILLUSTRATION No.
ART_3099

Upper Controls



CONTROL		DESCRIPTION	
1	Joystick	DRIVE	Controls Forward and Reverse travel at stepped speeds.
		LIFT	Move toward operator to elevate platform. Lift speed increases proportional to the joystick movement Move away from operator to lower platform. Speed is fixed.
2	Enable Bar	Squeeze to enable DRIVE, STEER, and LIFT from joystick.	
3	Steering Switch	Using thumb, press and hold the rocker switch to steer Left or Right.	
4	Mode Selector	Select LIFT or DRIVE function for joystick.	
5	OFF / ON Switch	Turn power ON or OFF at the platform. Does not affect lower controls.	
6	Speed / Torque Switch	HIGH TORQUE	Slow speed. Provides maximum torque for rough terrain.
		MID RANGE	Mid speed. Provides medium torque for smooth to moderate terrain.
		HIGH SPEED	Provides high speed when platform height is below 10 feet (3 m).
7	EMERGENCY STOP Switch	PUSH to stop all machine functions. TURN CLOCKWISE to reset.	
8	Overload Indicator Light	Light ON indicates too much weight on the platform. An audible alarm will sound and all machine function will stop. Remove weight from the platform to restore function and continue.	
9	Horn (Option)	Press to sound warning horn.	
10	Automatic Level Switch	Move switch DOWN and hold until automatic leveling is complete.	
11	Manual Level Switch Front to Rear	Move switch to the left to LOWER the front of the platform. Move the switch to the right to RAISE the front of the platform.	
12	Manual Level Switch Side to Side	Move the switch to the left to move the platform to the LEFT. Move the switch to the right to move the platform to the RIGHT.	

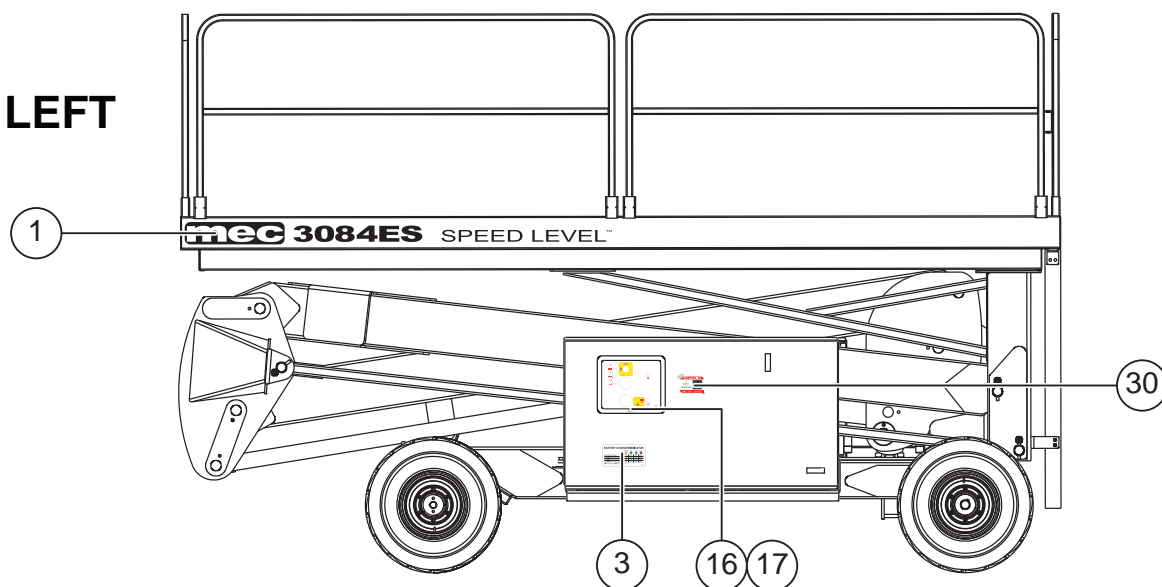
Lower Controls



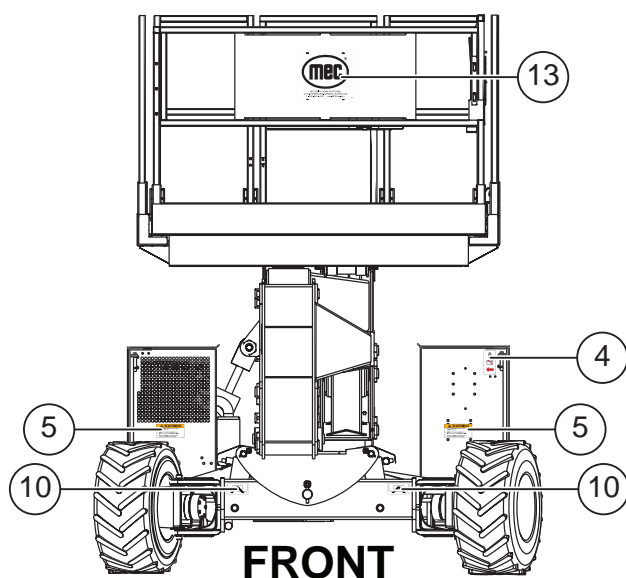
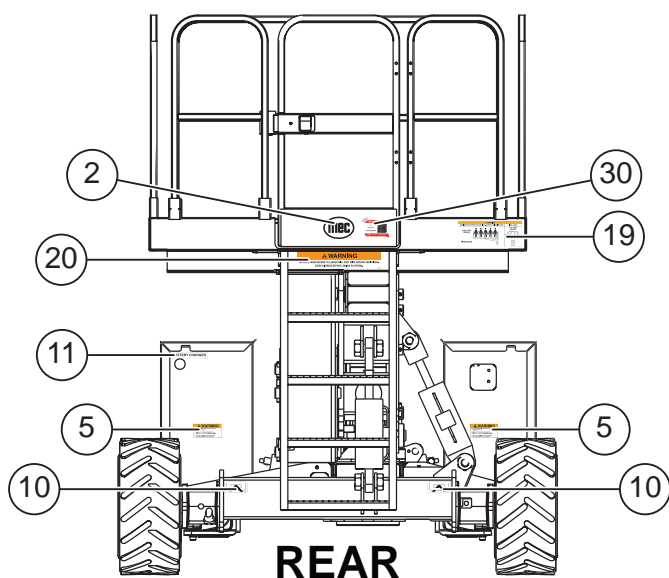
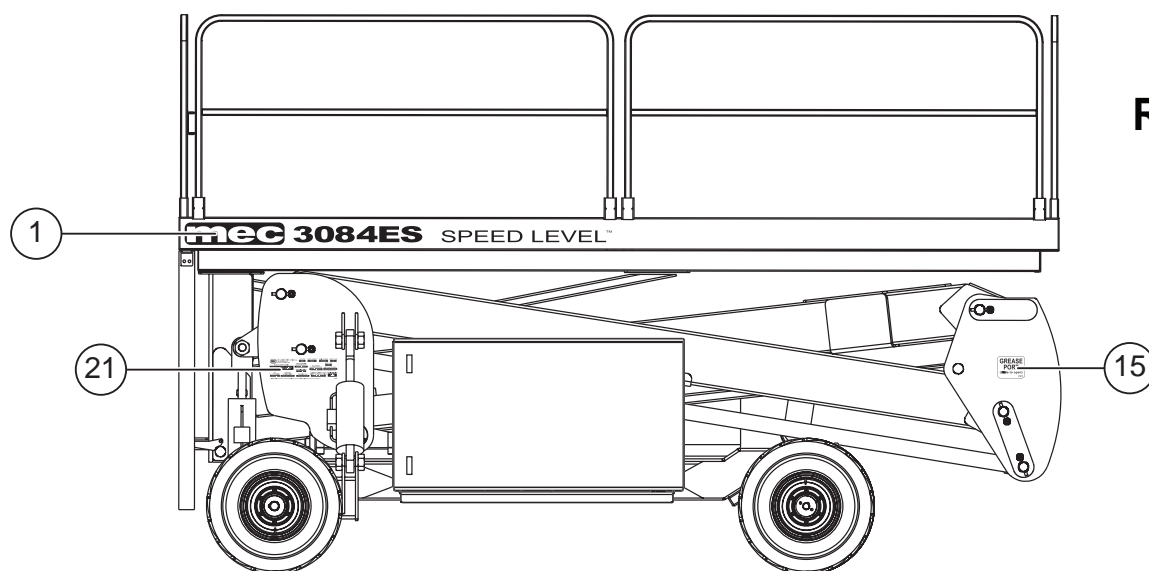
CONTROL		DESCRIPTION	
1	Selector Switch	PLATFORM	Select to operate from the platform control panel.
		BASE	Select to operate from the base control panel.
		OFF	Select to stop operation from either control panel.
2	RAISE Button	Press and hold to elevate the platform. Release to stop elevation.	
3	LOWER Button	Press and hold to lower the platform. Release to stop lowering.	
4	EMERGENCY STOP Switch	Press to stop all machine functions. Turn clockwise to reset.	
5	Hour Meter	Indicates total elapsed time of machine operation.	
6	Charge Indicator	Indicates state of battery charge.	
7	Circuit Breaker	Trips when there is excessive electrical load. Push to reset.	
8	Battery Disconnect	Battery power supply. Turn OFF and padlock to secure machine from unauthorized use.	
9	EMERGENCY LOWERING Switch	Push and hold the toggle switch Down to fully lower the platform.	
10	Overload Indicator Light	Light ON indicates too much weight on the platform. An audible alarm will sound and all machine function will stop. Remove weight from the platform to restore function and continue.	

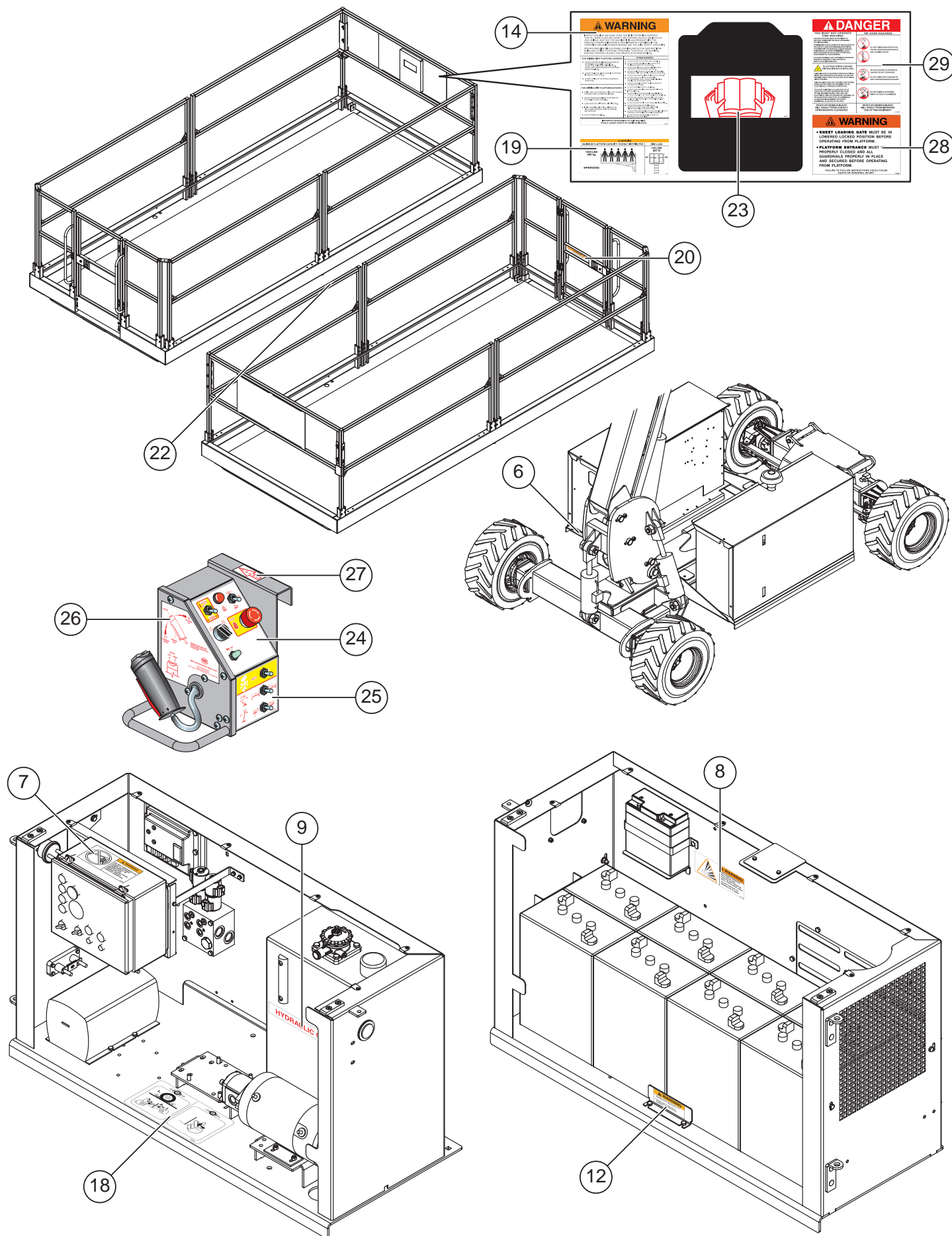
Decals

LEFT



RIGHT





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Item	Part Number	Description	Qty.
1	91987	Decal, MEC 3084ES	2
2	95301	Decal, Trademarked MEC Logo, Small (Black)	1
3	91956	Decal, Battery Charger LED Info	1
4	9052	Decal, Main Lockout Switch	1
5	90725	Decal, Warning Tire Replacement	4
6	90751	Label, Power to Platform	1
7	90732	Decal, Warning No Powerwash	1
8	8779	Decal, Warning Battery Explosive	1
9	6873	Decal, Hydraulic Oil	1
10	91973	Decal, Tie Down	4
11	90750	Decal, Battery Charger	1
12	91774	Decal, Warning Battery Replacement	1
13	90719	Decal, MEC Oval	1
14	91846	Decal, Warning General Operation	1
15	91870	Decal, Grease Access	1
16	95463	Decal, Lower Controls ES Speed Level ANSI A92.20	1
17	91848	Decal, Platform Capacity 1500 LBs	1
18	92089	Decal, Brake Release Pictorial	1
19	91847	Decal, Platform Capacity	2
20	91849	Decal, Warning Ladder Height	2
21	95462	Serial Plate, ANSI A92.20 Speed Level	1
22	7155	Decal, Locate Control Box Here	1
23	8911	Decal, Manuals Inside Icon	1
24	91934	Decal, Upper Controls	1
25	91843	Decal, Upper Control Level	1
26	90729	Decal, Upper Control Joystick Operations	1
27	7156	Decal, Front Arrow	1
28	91869	Decal, Sheet Load Gate	1
29	91845	Decal, Danger Electric/Tip-over	1
30	95262	Decal, MEC Duralink - 84 Series	2

Troubleshooting

Should you experience erratic operation or notice any malfunction while operating this machine, discontinue use immediately.

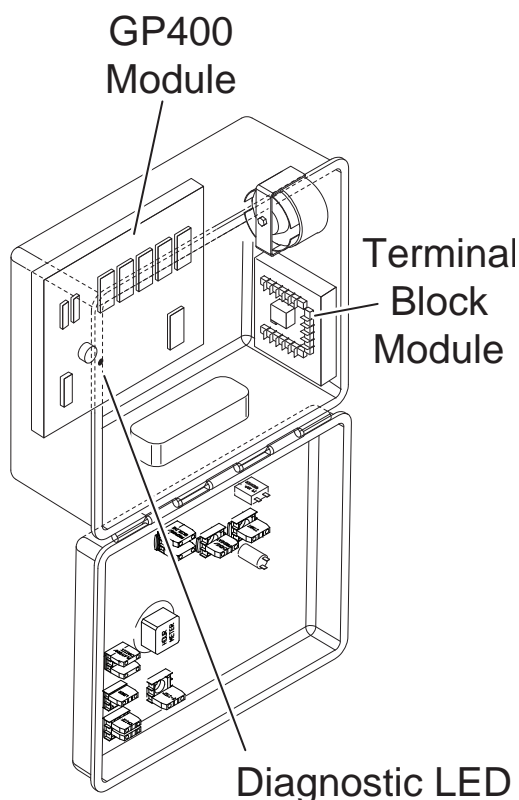


Call for assistance and report the incident to your supervisor, and do not use the machine until it has been checked by a trained, qualified mechanic.

Machine functions will not operate

- Battery Disconnect Switch ON?
- Batteries fully charged?
- Function toggle switch or the enable switch not activated?
- Selector switch in proper position?
- Both EMERGENCY STOP switches reset?
- Hydraulic fluid level low?
- Obvious fluid leak or damaged component?
- Wires disconnected, broken, or loose?
- Motor control processor Diagnostic LED OFF?
 - LED should be ON. If LED is OFF or FLASHING, refer to Service Manual or contact MEC Technical Support.

Lower Controls



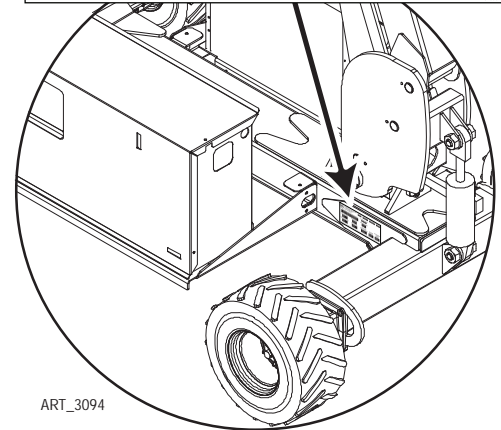
ART_3093

Serial Plate

Serial Plate Location

The serial plate is attached to the machine at the time of manufacture. Important information about the machine is recorded on the serial plate.

MEC AERIAL PLATFORM SALES CORP.		MFG. DATE	MODEL NUMBER	SERIAL NUMBER	MODEL YEAR
XXXX		XXXX	XXXXXX	XXXXXXXXXX	20XX
MAX. PLATFORM CAPACITY INCLUDING PERSONS XXX kg + X PERSONS + XXX kg EQUIPMENT XXX kg + X PERSONS + XXX kg EQUIPMENT		ELECTRICAL VOLTAGE XX VOLTS		MAX. MANUAL FORCE XXX LBS XXX N	
MAX. DRIVE HEIGHT X.X FT X.X m	MACHINE WEIGHT XXXX LBS XXXX kg	MAX. GROUND PRESSURE PER WHEEL XX PSI X.X kg/cm ²		MAX. LOAD PER WHEEL XXX LBS XXX kg	MAX. HYDRAULIC SYSTEM PRESSURE XXXX PSI XXX bar
MAX. PLATFORM HEIGHT X.X FT X.X m	MAX. WIND SPEED X MPH X m/s	MAX. GROUND PRESSURE PER WHEEL XX PSI X.X kg/cm ²		MAX. LOAD PER WHEEL XXX LBS XXX kg	MAX. HYDRAULIC SYSTEM PRESSURE XXXX PSI XXX bar



Serial Plate Item Information Defined

MFG DATE. Month / Year of manufacture

MODEL NUMBER. Identifies the machine.

SERIAL NUMBER. Identifies a machine with reference to its original owner. Refer to the number when requesting information or ordering parts.

MFG DATE

XX/XX

YEAR

MONTH

ART_2377

MODEL NUMBER

3084 ES

Electric
Speed
Level

Machine width
in INCHES

Max. platform height
in FEET

ART_3088

MAX. PLATFORM CAPACITY The maximum safe load (persons + equipment) which can be evenly distributed on the platform at any elevation.

MODEL YEAR Identifies the model year of the machine.

MAX. HYDRAULIC SYSTEM PRESSURE The maximum pressure generated by the machine's hydraulic system.

MAX. GROUND PRESSURE PER WHEEL. The amount of pressure exerted on the surface at each wheel. Calculated with all available options installed.
 $P_{max} = 30\% (W_m + W_c + W_{opt}) / \text{Contact Area}$

MAX. LOAD PER WHEEL. The maximum safe weight applied to each wheel. Calculated with all available options installed.
 $F_w = 30\% (W_m + W_c + W_{opt})$

MAX. DRIVE HEIGHT. The maximum safe platform height at which the machine can be driven.

MAX. PLATFORM HEIGHT. The maximum attainable height measured from level ground surface to platform floor.

STANDARD MACHINE WEIGHT. The weight of the machine with no options.

MAX. SIDE LOAD The maximum safe force that the occupant can exert laterally on an object outside the platform.

OPTIONAL EQUIPMENT ADDS TO STANDARD MACHINE WEIGHT. The weight of installed optional equipment.

MAX. INCLINATION The maximum amount of tilt for safe working conditions.

Transport and Lifting Instructions

Safety Information

This section is provided for reference and does not supersede any government or company policy regarding the loading, transport or lifting of MEC machinery.



Drivers are responsible for loading and securing machines, and should be properly trained and authorized to operate MEC machinery. Drivers are also responsible for selecting the correct and appropriate trailer according to government regulations and company policy. Drivers must ensure that the vehicle and chains are strong enough to hold the weight of the machine (see the serial number plate for machine weight).

Loading

Free-wheel configuration for Winching or Towing



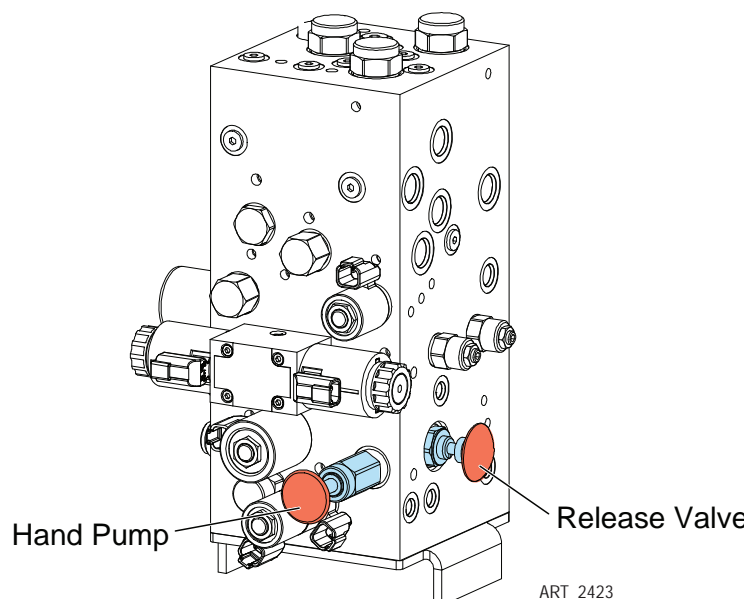
Prior to manually releasing brakes, be sure the wheels are chocked to prevent machine from moving.

RUNAWAY HAZARD!



After releasing the brakes there is nothing to stop machine travel. Machine will roll freely on slopes.

The machine can be winched or towed short distances at speeds not to exceed 5 MPH (8.05 kph). Before towing or winching the machine, it is necessary to release the brakes. Reset the brakes after towing or winching.



Disengage Brakes before Towing or Winching

- Chock the wheels.
- Using the hand pump on the manifold, pump valve until pressure is built.

Engage Brakes before Driving

- Pull out the manual brake release valve to reset brakes.

Note: Brakes will reset automatically when drive function is activated.

Driving or Winching onto or off of a Transport Vehicle

MEC does not recommend unassisted loading or unloading.



Always attach the machine to a winch when loading or unloading from a truck or trailer by driving.

Read and understand all safety, control, and operating information found on the machine and in this manual before operating the machine.

- Attach the machine to a winch.
- Remove all machine tie downs. Remove wheel chocks.

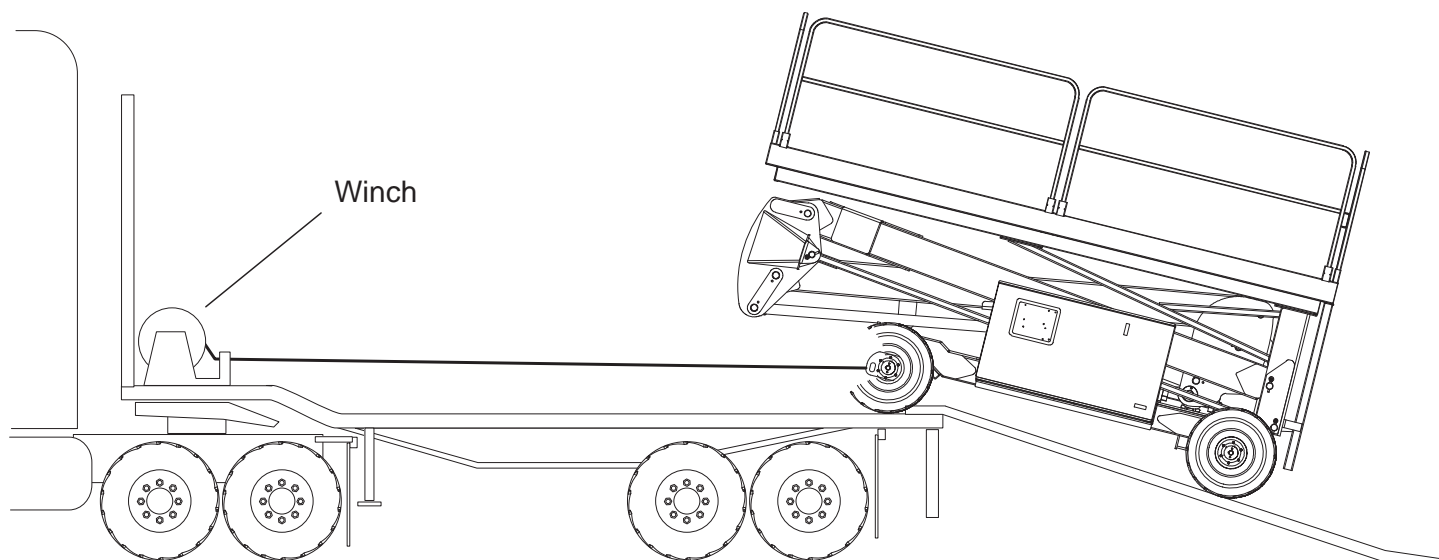
Driving

- Turn the base key switch to PLATFORM. Check that the EMERGENCY STOP switch is reset by turning it clockwise.
- Enter the platform and reset the Platform EMERGENCY STOP switch.
- Test platform control functions.
- Carefully drive the machine off the transport vehicle with the winch attached.

Note: The brakes are automatically released for driving and will automatically apply when the machine stops.

Winching

- Disengage brakes (see Disengage Brakes before Towing or Winching on page 46).
- Carefully operate the winch to lower the machine down the ramp.
- Chock the wheels and engage the brakes.



ART_3086

Lifting and Tie Down Instructions

Only qualified riggers should rig and lift the machine.



Ensure that the crane capacity, loading surfaces and straps are sufficient to withstand the machine weight. See the serial plate for the machine weight.

- Fully lower the platform. Be sure the module doors are closed and secure. Remove all loose items from the machine.
- Fold down the guardrails.
- Determine the center of gravity of the machine.
- Attach rigging to the designated lift points only.
- Adjust the rigging to prevent damage to the machine and to keep the machine level.

Securing to Truck or Trailer for Transport

- Turn the key switch to OFF and remove the key before transport.
- Turn the battery disconnect switch to OFF before transport.
- Inspect the entire machine for loose or unsecured items.
- Use chains or straps of ample load capacity.
- Use a minimum of two (2) chains or straps.
- Adjust the rigging to prevent damage to the chains and the machine.

Center of Gravity and Lifting Points

Center of Gravity	X Axis	Y Axis
3084	45.89 in. / 116.57cm	10.89 in. / 27.65 cm

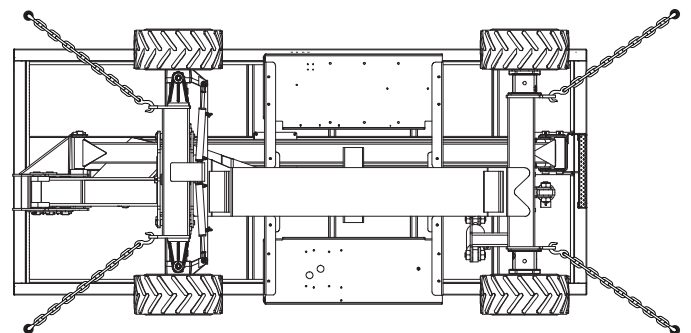
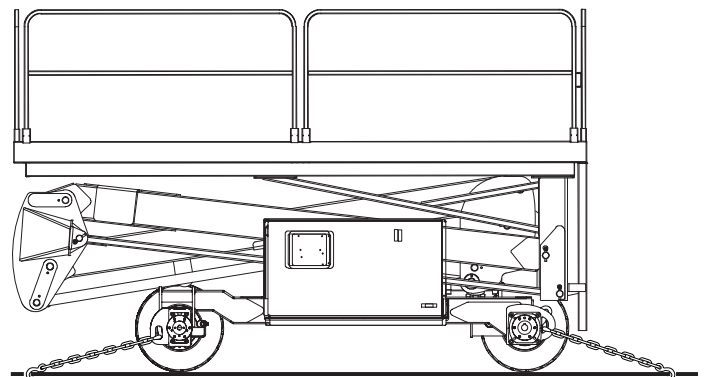
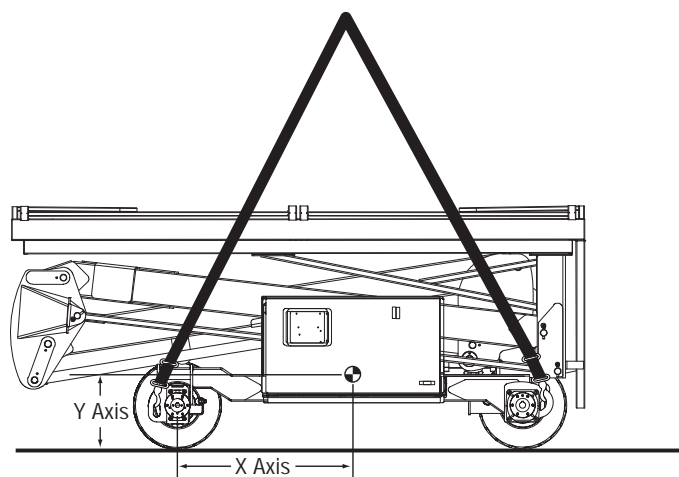


 ILLUSTRATION No.
ART_3104

Notes



MEC Parts Order Form

Phone: 559-842-1523

Fax: 559-400-6723

Email: Parts@mecawp.com

Please fill out completely

Date: _____

Ordered By: _____

Account: _____

Your Fax No.: _____

Bill to: _____

Ship to: _____

Purchase Order Number _____

Ship VIA _____

** All orders MUST have a Purchase Order Number

**Fed Ex shipments require Fed Ex account number

Part Number	Description	Quantity	Price

All back-ordered parts will be shipped when available via the same ship method as original order unless noted below:

- ☐ Ship complete order only - No Backorders
- ☐ Ship all available parts and contact customer on disposition of back-ordered parts
- ☐ Other (Please specify)



Limited Owner Warranty

MEC Aerial Platform Sales Corp. warrants its equipment to the original purchaser against defects in material and/or workmanship under normal use and service for one (1) year from date of registered sale or date the unit left the factory if not registered. MEC Aerial Platform Sales Corp. further warrants the structural weldments of the main frame and scissor arms to be free from defects in material or workmanship for five (5) years from date of registered sale or date unit left the factory if not registered. Excluded from such warranty is the battery(s) which carries a ninety (90) day warranty from described purchase date. Warranty claims within such warranty period shall be limited to repair or replacement, MEC Aerial Platform Sales Corp's option, of the defective part in question and labor to perform the necessary repair or replacement based on MEC Aerial Platform Sales Corp's then current flat rate, provided the defective part in question is shipped prepaid to MEC Aerial Platform Sales Corp. and is found upon inspection by MEC Aerial Platform Sales Corp. to be defective in material and/or workmanship. MEC Aerial Platform Sales Corp. shall not be liable for any consequential, incidental or contingent damages whatsoever. Use of other than factory authorized parts; misuse, improper maintenance, or modification of the equipment voids this warranty. The foregoing warranty is exclusive and in lieu of all other warranties, express or implied. All such other warranties, including implied warranties of merchantability and of fitness for a particular purpose, are hereby excluded. No Dealer, Sales Representative, or other person purporting to act on behalf of MEC Aerial Platform Sales Corp. is authorized to alter the terms of this warranty, or in any manner assume on behalf of MEC Aerial Platform Sales Corp. any liability or obligation which exceeds MEC Aerial Platform Sales Corp's obligations under this warranty.



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