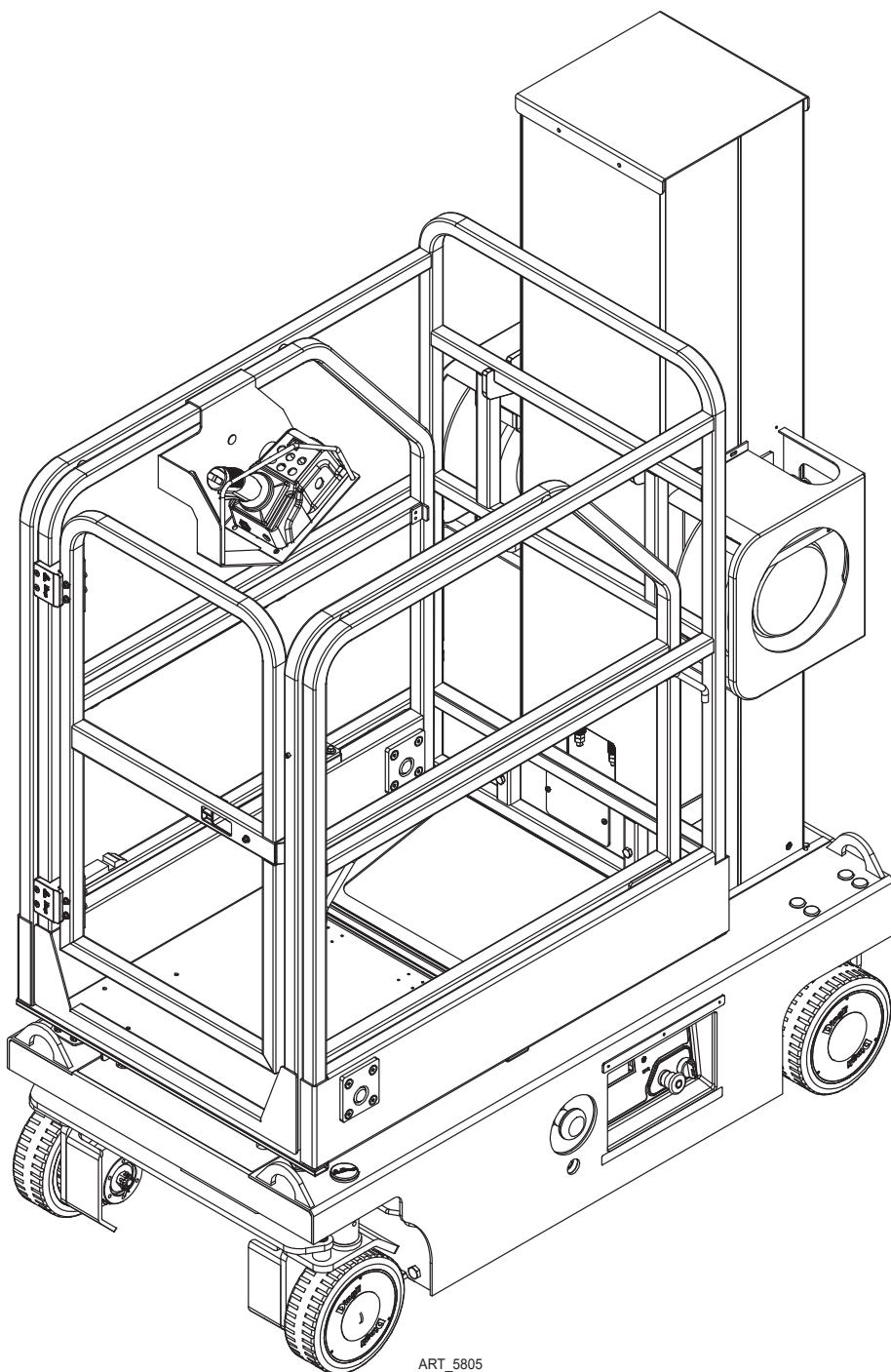




Operator's Manual

MMAE16



ART_5805

Meets requirements of ANSI A92.20-2020 and CSA B354.6-2019.
Serial Number Range 17400000 - Up

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MEC Aerial Work Platforms

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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.

**DANGER**

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.

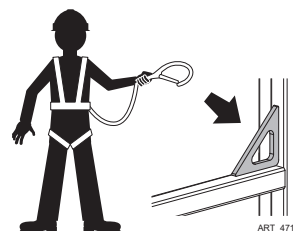


GREEN and the word **NOTICE** – Indicates operation or maintenance information.

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 personal fall protection equipment (PFPE) must comply with applicable governmental regulations, and must be inspected and used in accordance with the personal fall protection equipment (PFPE) manufacturer's instructions.

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

Specifications

Height, Working Maximum ¹	Indoor	22ft	6.7m
	Outdoor	18ft	5.5m
Height, Platform Maximum	Indoor	16ft	4.9m
	Outdoor	12ft	3.7m
Height	Stowed Maximum	78.3in	2m
	Guard Rails	43.3in	1.1m
Maximum Personnel	Indoor	1 Person	
	Outdoor	1 Person	
Manual Force	Indoor	45lbs	200N
	Outdoor	45lbs	200N
Width		30in	0.76m
Length, Stowed		57in	1.45m
Platform Dimensions (Length × Width)		40 × 30in	1.02 × 0.76m
Platform Extension Length		20in	0.5m
Maximum Load Capacity		500lbs	227kg
Platform Extension Load Capacity		250lbs	113kg
Maximum Wind Speed		28mph	12.5m/s
Wheelbase		47.6in	1.21m
Turning Radius	Outside	70.8in	1.8m
	Inside	23.6in	0.6m
Pothole Ground Clearance	Pothole Retracted	2.5in	6.4cm
	Pothole Deployed	0.55in	1.4cm
Weight ²		2,170lbs	985kg
Maximum Wheel Load		800lbs	363kg
Controls		Proportional	
AC Outlet In Platform		Standard	
Power Source		2×12V 115Ah AGM	
System Voltage		24 V	
Tire Size		9×3.1in	230×80mm
Maximum Slope Rating, Stowed Position ³		25%	
Maximum Side Slope Rating, Stowed Position ³		10%	
Warning Slope		X-1.5°, Y-3°	
Drive Speeds			
Stowed, Maximum		2.5mph	4.0km/h
Platform Raised, Maximum		0.5mph	0.8km/h
Floor Loading Information			
Tire Load, Maximum		800lbs	363kg
Tire Contact Pressure	Loaded	148psi	10.4kg/cm ² (1,020kPa)
	Unloaded	120psi	8.5kg/cm ² (834kPa)
Occupied Floor Pressure ⁴		225psf	0.11kg/cm ² (10.8kPa)
Meets requirements of ANSI A92.20-2020 and CSA B354.6-2019.			
¹ Working Height adds 6 feet (2 meters) to platform height.			
² Weight may increase with certain options.			
³ Slope rating is subject to ground conditions and adequate traction.			
⁴ Occupied floor pressure with deck extended is 168 psf - 0.08kg/m ² (8 kPa).			

Safety Rules



Failure to obey the instructions and safety rules in this manual will result in death or serious injury.

Do Not Operate Unless:

- You learn and practice the principles of safe machine operation contained in this operator's manual.
 1. **Avoid hazardous situations. Know and understand the safety rules before going on to the next section.**
 2. Always perform a pre-operation inspection.
 3. Always perform function tests prior to use.
 4. Inspect the workplace and conduct a risk assessment.
 5. Only use the machine as it was intended.
- You read, understand and obey the manufacturer's instructions and safety rules -- safety and operator's manuals and machine decals.
- You read, understand and obey employer's safety rules and worksite regulations.
- You read, understand and obey all applicable governmental regulations.
- You are properly trained to safely operate the machine.

Conditions of using the equipment

- The surface of the worksite ground should be flat and hard with no obstacles in the air and the safety distance between the equipment and high-tension line is adequate.
 - The environment temperature should be between: -4°F(-20°C) to 113°F(45°C)
 - The environment humidity: ≤ 90%.
 - Electrical power: AC 110~230V±10%, 50~60Hz.

Intended Use

- This machine is intended to be used only to lift personnel, along with their tools and materials to an aerial work site.

Safety Sign Maintenance

- Replace any missing or damaged safety signs. Keep operator safety in mind at all times. Use mild soap and water to clean safety signs. Do not use solvent-based cleaners because they may damage the safety sign material.

Operator

- Only trained and qualified operators are permitted to operate this machine.
- If you are subject to dizziness or seizures, or are bothered by heights, you must not operate this type of machinery.
- An operator must not use drugs or alcohol that can change his/her alertness or coordination. An operator on prescription or over-the-counter drugs needs medical advice on whether or not he/she can safely operate machines.

Hazards

Electrocution Hazard

This machine **is not** electrically insulated and **will not** provide protection from contact with or proximity to electrical current.

Maintain safe distances from electrical power lines and apparatus in accordance with applicable governmental regulations and the following chart.



Voltage Phase to Phase	Minimum Safe Approach Distance	
0 to 300V	Avoid Contact	
300V to 50kV	10ft	3.05m
50kV to 200kV	15ft	4.60m
200kV to 350kV	20ft	6.10m
350kV to 500kV	25ft	7.62m
500kV to 750kV	35ft	10.67m
750kV to 1,000kV	45ft	13.72m

Allow for platform movement, electrical line sway or sag and beware of strong or gusty winds.

Keep away from the machine if it contacts energized power lines. Personnel on the ground or in the platform must not touch or operate the machine until energized power lines are shut off.

Do not operate the machine during lightning or storms.

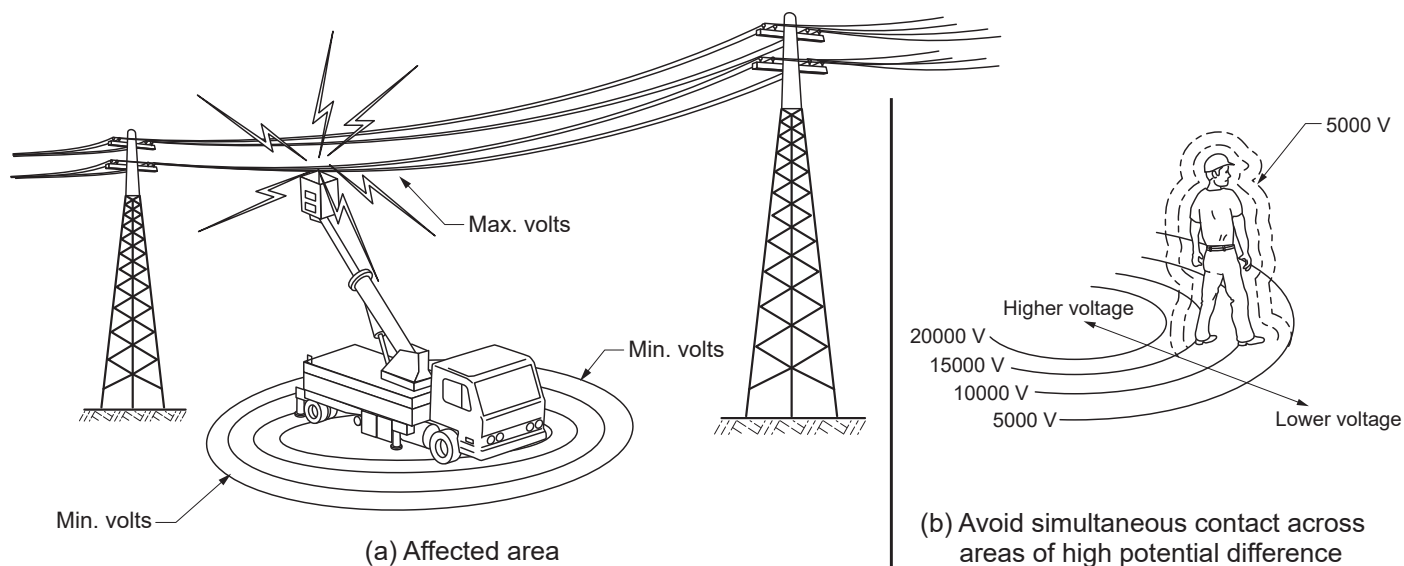
Do not use the machine as a ground for welding.

Keep clear of live electric conductors.

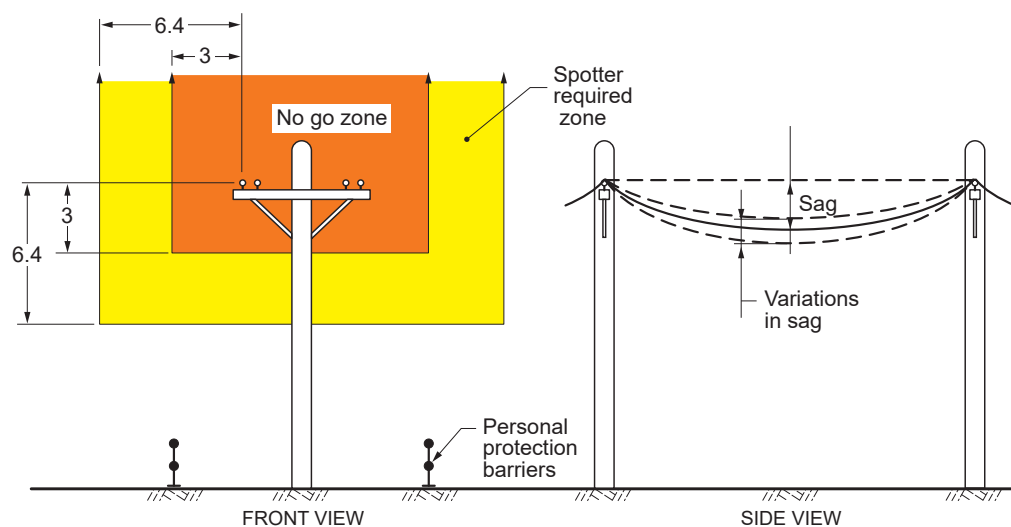
Energized Conductor Contact Hazard

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

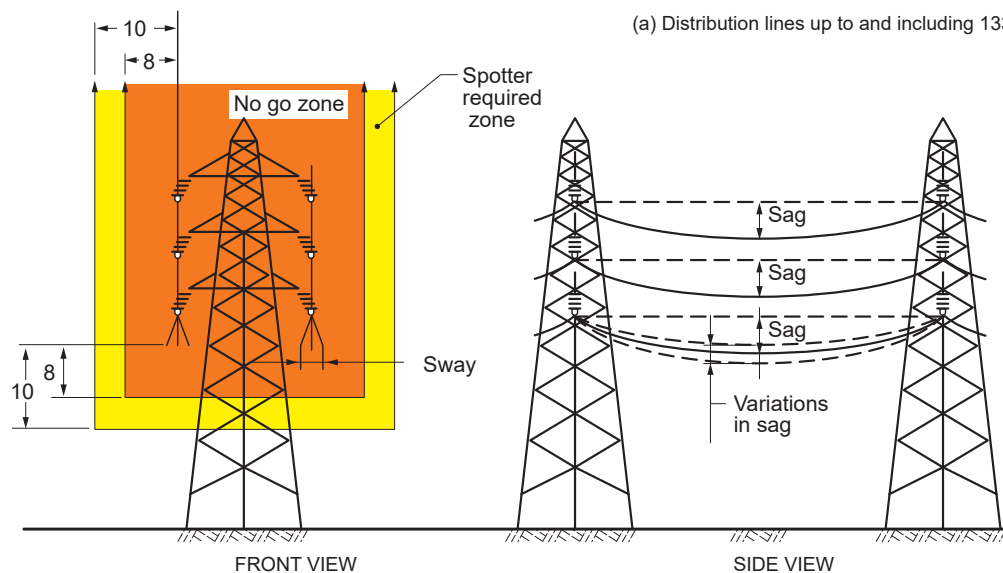
- 1) Stay at least 10 feet (3.05 meters) away from power lines with any part of their body, conductive object or any part of the MEWP.
- 2) If work requires working nearer than 10 feet (3.05 meters), stop and consult a qualified person with respect to electrical transmission and distribution to have appropriate measures taken (such as de-energizing and grounding).
- 3) 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.
- 4) 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.



CLEARANCES FROM LIVE AERIAL CONDUCTORS



(a) Distribution lines up to and including 133 kV



(b) Transmission lines greater than 133 kV

LEGEND

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

Tip-over Hazard

Occupants, equipment and materials must not exceed the maximum platform capacity.

MMAE16 Maximum Capacity		
Maximum Occupants	Indoor	2 Person
	Outdoor	1 Person
Maximum Load	Platform	500lbs (227kg)
	Extension Deck	250lbs (113kg)



Take great care when driving, elevating, or lowering when the extension deck is extended.

Work Area Safety

Do not install any objects that would increase the wind load on the MEWP (Mobile Elevating Work Platform).

Do not drive over 0.5mph (0.8km/h) with the platform raised.

Do not raise the platform unless the machine is on a firm, level surface.

Do not depend on the tilt alarm as a level indicator. The tilt alarm sounds on the chassis and in the platform when the machine is on a slope.



If the tilt alarm sounds:

- Lower the mast. Move the machine to a firm, level surface. Use extreme caution to lower the mast.

For outdoor use, do not raise the platform when wind speeds may exceed 28mph (12.5m/s). If wind speeds exceed 28mph (12.5m/s) when the platform is raised, lower the platform and do not continue to operate the machine.

When raising the platform, follow ratings for allowable manual force and number of occupants below.

MMAE16 Maximum Allowable Manual Force		
	Manual Force	Maximum Occupants
Indoor	90lbs (400N)	2 Person
Outdoor	45lbs (200N)	1 Person

Do not operate the machine in strong or gusty winds. Do not increase the surface area of the platform or the load. Increasing the surface area exposed to the wind will decrease machine stability.

Do not use the platform controls to free a platform that is caught, snagged or otherwise prevented from normal motion by an adjacent structure. All personnel must be removed from the platform before attempting to free the platform using the ground controls.



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

Do not drive the machine on or near uneven terrain, unstable surfaces or other hazardous conditions with the platform raised or extended.

Do not use the machine as a crane.

Do not push off or pull toward any object outside of the platform.

Do not alter or disable the limit switches.

Do not alter or disable machine components that in any way affect safety and stability.

Do not replace items critical to machine stability with items of different weight or specification.

Do not modify or alter an aerial work platform without prior written permission from the manufacturer. Mounting attachments for holding tools or other materials onto the platform, toe boards or guard rail system can increase the weight in the platform and the surface area of the platform or the load.

Do not use batteries that weigh less than the original equipment. Batteries are used as counterweights and are critical to machine stability. Each battery must weigh a minimum of 100lbs (46kg).

Do not place or attach fixed or overhanging loads to any part of this machine.

Do not place ladders or scaffolds in the platform or against any part of this machine.

Do not transport tools and materials unless they are evenly distributed and can be safely handled by the person in the platform.

Do not use the machine on a moving or mobile surface or vehicle.

Be sure all tires are in good condition.

Do not contact adjacent structures with the platform.

Do not tie platform to adjacent structures.

Do not place loads outside the platform perimeter.



Crushing Hazard

Keep hands and limbs out of mast. Keep hands clear when lowering the platform. Do not work under the platform.

Use risk assessment and planning when operating the machine with the controller from the ground. Maintain safe distances between the operator, the machine, and fixed objects.

Operation on Slopes Hazard

Do not drive the machine on a slope that exceeds the slope and side slope rating of the machine.

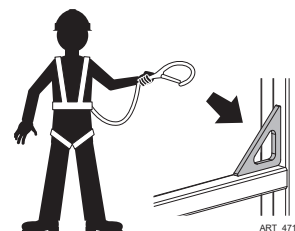
Slope rating applies to machines only in the stowed position.

- Maximum Fore/Aft Slope Rating Stowed Position: 25%
- Maximum Side Slope Rating Stowed Position: 10%

Note: Slope rating is subject to ground conditions and adequate traction.

Fall Hazard

The guard rail system provides fall protection. If required by regulations during operation, occupants in the platform must wear a full body harness with a lanyard attached to an authorized lanyard anchorage point. Attach only one (1) lanyard per lanyard anchorage point.



Keep the platform floor clear of debris.

Close the entry gate before operating.

Do not operate the machine unless the entry is securely closed.

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



Do not climb down from the platform when raised.

Do not exit the platform while raised. If a power failure occurs, have ground personnel activate the emergency lowering switch.

Use extreme caution when entering or leaving platform. Be sure that the platform is fully lowered. Face the machine, maintain “three point contact” with the machine, using two hands and one foot or two feet and one hand during entry and exit.

Collision Hazard

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



Be aware of limited sight distance and blind spots when driving or operating.

The machine must be on a level surface or secured before releasing the brakes.

Check the work area for overhead obstructions or other possible hazards.



Be aware of crushing hazards when grasping the platform guard rail.

Do not lower the platform unless the area below is clear of personnel and obstructions.



Limit travel speed according to the condition of the ground surface, congestion, slope, location of personnel, and any other factors which may cause collision.

Do not operate a machine in the path of any crane or moving overhead machinery unless the controls

of the crane have been locked out and/or precautions have been taken to prevent any potential collision. No stunt driving or horseplay while operating a machine

Bodily Injury Hazard

Improper contact with components under any cover will cause serious injury. Only trained maintenance personnel should access compartments. All compartments must remain closed and secured during operation.

Explosion and Fire Hazard

Charge the battery only in an open, well-ventilated area away from sparks, flames and lighted tobacco.

Do not operate the machine or charge the battery in hazardous locations or locations where potentially flammable or explosive gases or particles may be present.

Damaged Machine Hazard

Do not use a damaged or malfunctioning machine. Conduct a thorough pre-operation inspection of the machine and test all functions before each work shift. Immediately tag and remove from service a damaged or malfunctioning machine.

Make sure all maintenance has been performed as specified in this manual. Make sure all decals are in place and legible. Make sure the operator's manual, and manual of responsibilities are complete, legible and in the storage container located on the platform.

Component Damage Hazard

Do not use the machine as a ground for welding.

Battery Safety - Burn Hazard

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.

Do not expose the batteries or the charger to water or rain during charging.



Battery Safety - Explosion Hazard

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

The battery tray should remain open during the entire charging cycle.

Do not contact the battery terminals or the cable clamps with tools that may cause sparks.



Battery Safety - Electrocution/Burn Hazard

Connect the battery charger to a grounded, AC 3-wire electrical outlet only.

Inspect daily for damaged cords, cables and wires. Replace damaged items before operating.

Metallic parts of the battery cells are always electrified. Therefore, no foreign objects or tools may be placed on the batteries.

Avoid electrical shock from contact with battery terminals. Remove all rings, watches and other jewelry.

**Tip-over Hazard**

Do not use batteries that weigh less than the original equipment. Batteries are used as counterweights and are critical to machine stability. Each battery must weigh a minimum of 100lbs (46kg).

Lifting Hazard

Use the appropriate lifting techniques when lifting batteries.

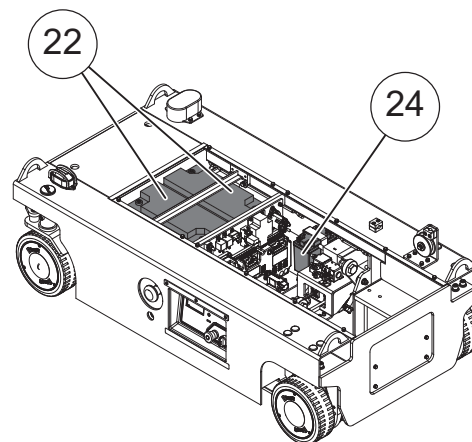
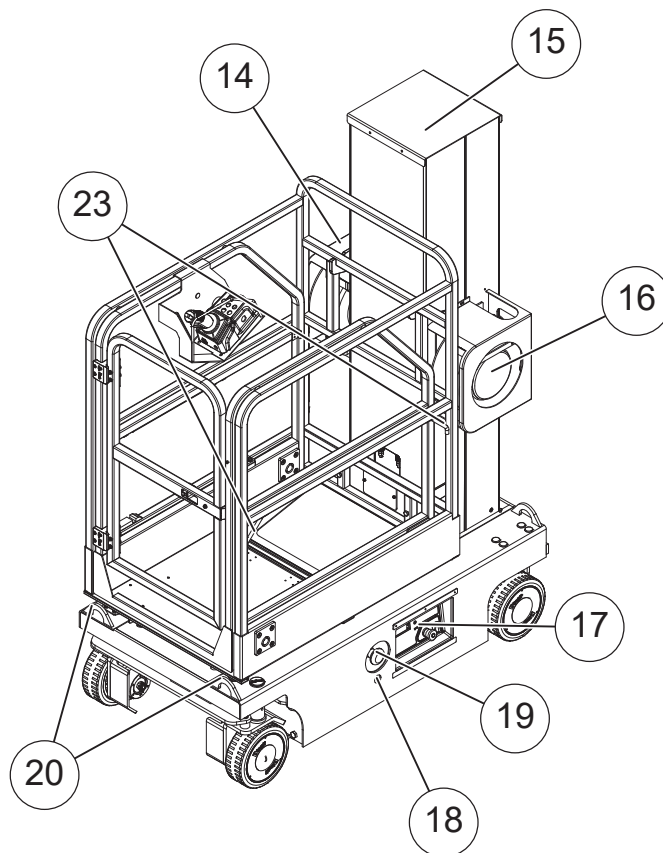
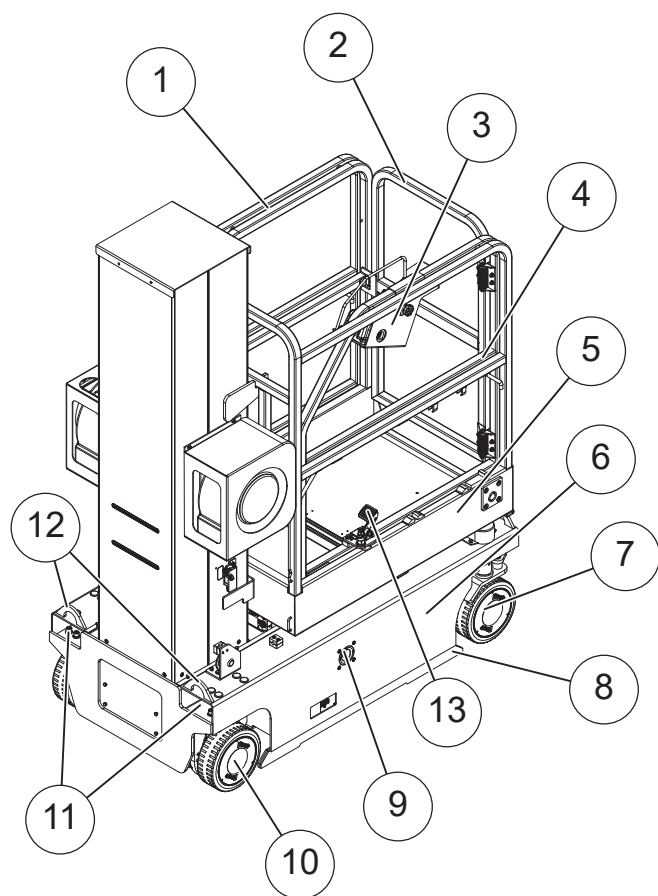
Pollution Hazard

Disposal of old batteries must comply with job site and governmental rules.

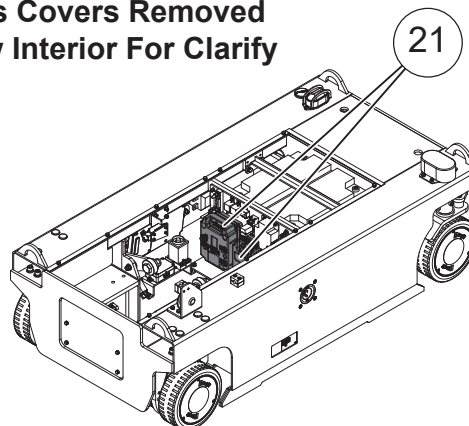
Lockout after Each Use

1. Select a safe parking location -- firm level surface, clear of obstruction and traffic.
2. Lower the platform to the stowed position
3. Turn the key switch to the "Off" position and remove the key to secure from unauthorized use.
4. Push in the red Emergency Stop buttons to the Off position (pushed in).
5. Charge the batteries.

Component Locations

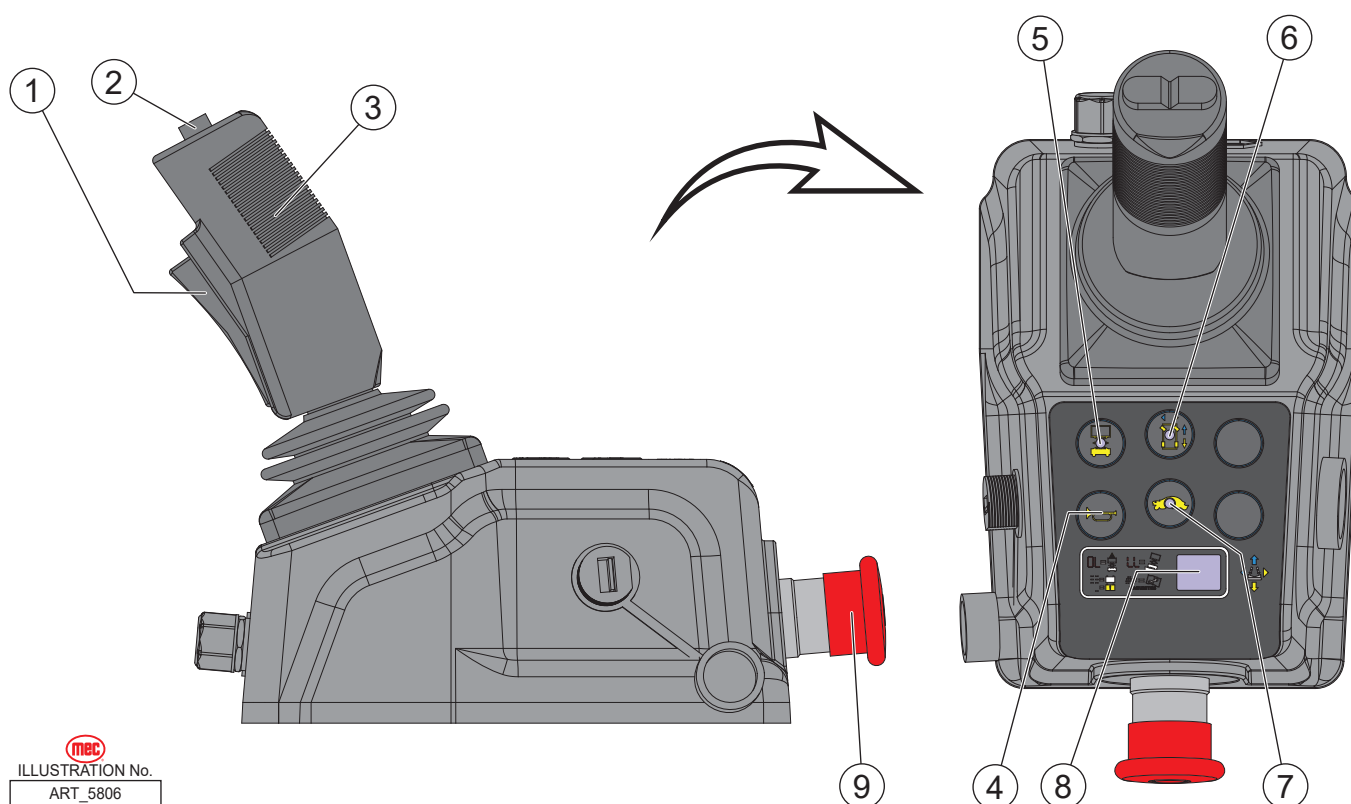


**Chassis Covers Removed
To Show Interior For Clarify**



- 1) Platform Guard Rails
- 2) Platform Entry Gate
- 3) Platform Controller
- 4) Platform Extension
- 5) Main Platform
- 6) Chassis
- 7) Front Wheel
- 8) Pothole Protection Device
- 9) Batteries Charger
- 10) Rear Wheel
- 11) Forklift Pockets
- 12) Lifting Points
- 13) Platform Extension Release Pedal
- 14) Comms Cable
- 15) Mast Assembly
- 16) Power To Platform Cable
- 17) Ground Control Panel
- 18) Emergency Lowering Button
- 19) Main Power Switch
- 20) Lifting Points
- 21) Motor Controllers
- 22) Batteries
- 23) Lanyard Anchorage
- 24) Emergency Down Battery (If Equipped)

Platform Controls



mec
ILLUSTRATION No.
ART_5806



WARNING

ALWAYS be aware of the machine's position and of your surroundings before activating any control function.

Control		Description
1	Function Enable Switch	Squeeze to enable Drive, Steer, and Lift functions from the Control Handle.
2	Steer Switch	Using your thumb, press and hold the rocker switch to steer Left or Right.
3	Control Handle	Drive Proportionally controls Forward and Reverse travel.
		Lift Proportionally controls Lift and Lower functions.
4	Horn Button	Press to sound warning horn.
5	Lift Select	Press this button to enable the Lift function. <ul style="list-style-type: none"> Regardless of if the Function Enable Switch is pressed or released, if no machine movement is made in 10 seconds then the current selection of Lift will time-out. Release then press the Function Enable Switch to reactivate selected function.
6	Drive Select	Press this button to enable the Drive function. <ul style="list-style-type: none"> Regardless of if the Function Enable Switch is pressed or released, if no machine movement is made in 10 seconds then the current selection of Drive will time-out. Release then press the Function Enable Switch to reactivate selected function.
7	Drive Speed Select	Light on indicates Low Speed Drive is selected. Light off indicates High Speed Drive is selected.
8	LED Display	Indicates the state of battery charge and displays diagnostic codes when necessary.
9	Emergency Stop Switch	Press the Emergency Stop switch at any time to stop all machine functions. Turn switch clockwise to reset.

Lower Controls

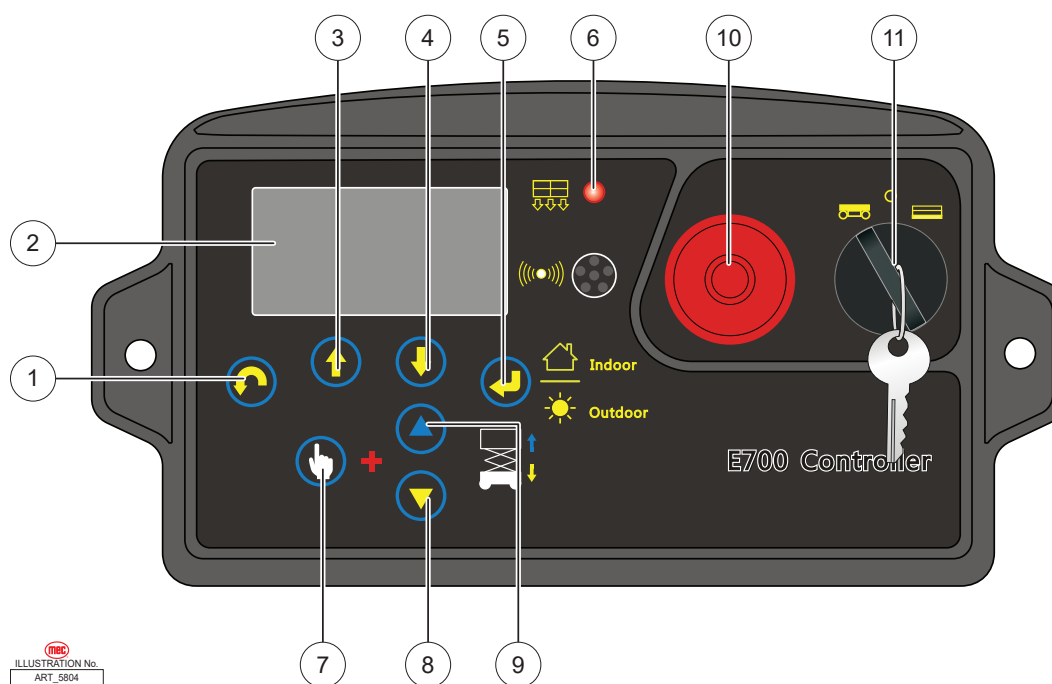


ILLUSTRATION No.
ART_5804



WARNING

ALWAYS be aware of the machine's position and of your surroundings before activating any control function.

Control		Description
1	Menu Escape Button	Press this button to exit the Menu screen.
2	LED Readout Screen	Diagnostic readout and battery charge indicator.
3	Menu Up Button	Press this button to go up the Menu items.
4	Menu Down Button	Press this button to go down the Menu items.
5	Menu Enter Button	Press this button to enter the Menu screen
6	Overload Indicator Light	Light on indicates when platform is overloaded.
7	Function Enable Button	Press and hold this button along with either the Platform Down Button (#8) or the Platform Up Button (#9) to activate selected function.
8	Platform Down Button	Press and hold the Function Enable Button (#7) and this button then the platform with lower.
9	Platform Up Button	Press and hold the Function Enable Button (#7) and this button then the platform with rise.
10	Emergency Stop Switch	Press the Emergency Stop switch at any time to stop all machine functions. Pull button out to the on position to operate the machine.
11	Key Switch	Platform Turn the key switch to the platform position and the platform controls will be selected.
		Off Turn the key switch to the off position and the machine will be off.
		Base Turn the key switch to the base position and the ground controls will be selected.

Selecting Indoor/Outdoor Mode:

To select the Indoor/Outdoor Mode, press and hold the Menu Enter Button (#5) for a few seconds to switch to Indoor or Outdoor.

- **Indoor**
 - Select to allow unrestricted height when not exposed to wind.
- **Outdoor**
 - Select to limit the maximum height when exposed to wind.

Pre-operation Inspection

Do Not Operate Unless:

- You learn and practice the principles of safe machine operation contained in this operator's manual.
 1. Avoid hazardous situations.
 - 2. Always perform a pre-operation inspection. Know and understand the pre-operation inspection before going on to the next section.**
 3. Inspect the workplace.
 4. Always perform function tests prior to use.
 5. Only use the machine as it was intended.

Fundamentals

It is the responsibility of the operator to perform a pre-operation inspection and routine maintenance.

The pre-operation inspection is a visual inspection performed by the operator prior to each work shift. The inspection is designed to discover if anything is apparently wrong with a machine before the operator performs the function tests.

The pre-operation inspection also serves to determine if routine maintenance procedures are required. Only routine maintenance items specified in this manual may be performed by the operator.

Refer to the list on the next page and check each of the items.

If damage or any unauthorized variation from factory delivered condition is discovered, the machine must be tagged and removed from service.

Repairs to the machine may only be made by a qualified service technician, according to the manufacturer's specifications. After repairs are completed, the operator must perform a pre-operation inspection again before going on to the function tests.

Scheduled maintenance inspections shall be performed by qualified service technicians, according to the manufacturer's specifications and the requirements listed in this manual.

Pre-Start Inspection Checklist

The operator must conduct a Pre-Start Inspection of the machine before each work shift.

DO NOT use a damaged or malfunctioning machine.

	Be sure that the operator's manual is complete and legible.
	Be sure that all decals are legible and in place. See Decals section.
	Check for battery fluid leaks. (Sealed AGM-type batteries don't require maintenance.)

Check the following components or areas for damage, improperly installed or missing parts and unauthorized modifications:

	Electrical components, wiring and electrical cables
	Battery and connections
	Drive motors
	Wear pads
	Wheels
	Mast chains and idler wheels
	Mast and mast braces
	Limit switches, alarms and horn
	Nuts, bolts and other fasteners
	Platform entry gate
	Alarms and beacons (if equipped)
	Platform Control Panel
	Pothole guard

Check entire machine for:

	Cracks in welds or structural components
	Dents or damage to machine
	Be sure that all structural and other critical components are present and all associated fasteners and pins are in place and properly tightened



NEVER perform work on the machine with the platform elevated without first using a 2×4 inch (35×90 millimeter) piece of wood to support the mast section as the image on page 34 shows. Alternatively the platform can be supported with either a forklift or a crane.

Workplace Inspection

Do Not Operate Unless:

- You learn and practice the principles of safe machine operation contained in this operator's manual.
 1. Avoid hazardous situations.
 2. Always perform a pre-operation inspection.
 - 3. Inspect the workplace. Know and understand the workplace inspection before going on to the next section.**
 4. Always perform function tests prior to use.
 5. Only use the machine as it was intended.

Fundamentals

The workplace inspection helps the operator determine if the workplace is suitable for safe machine operation. It should be performed by the operator prior to moving the machine to the workplace.

It is the operator's responsibility to read and remember the workplace hazards, then watch for and avoid them while moving, setting up, and operating the machine.

Workplace Inspection

Be aware of and avoid the following hazardous situations:

- Drop-offs or holes
- Bumps, floor obstructions or debris
- Sloped surfaces
- Unstable or slippery surfaces
- Overhead obstructions and high voltage conductors
- Hazardous locations
- Inadequate surface support to withstand all load forces imposed by the machine
- Wind and weather conditions
- The presence of unauthorized personnel
- Other possible unsafe conditions

Function Tests

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.

This section provides instructions and tests for each function of machine operation. Follow all safety rules and instructions. The operator must conduct inspections and 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 step outlined in this section.

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

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

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.



Check the area above and around the machine for obstructions and electrical power lines before operating the machine. The machine must have space to allow full elevation of platform.

Prestart

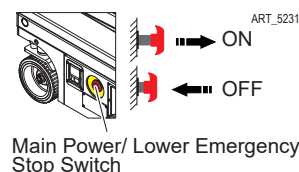
Perform Prestart Inspection (see page 17).

Check Emergency Stop buttons at both the lower control and platform controls, pull them both out to reset.



ART_3353

Check Main Power Switch. Must be in On position (pulled out).



Functions Test

1. Select a test area that is firm, level and free of obstruction.
2. Be sure the battery pack is connected.
3. Turn the main power switch to On position (pulled out).

At the Ground Controls

1. Pull the red Emergency Stop button out to the On position (pulled out) at both the ground and platform controls.

2. Turn the key switch to ground control.
3. Observe the LED readout screen on the platform controls.
 - **Result:** The LED should look like the picture at right.
4. Observe the LED readout screen on the ECU window.
 - **Result:** The LED should look like the picture at right.

**Platform Display**

Indicates key is in the ground position.



Test Emergency Stop

1. Push in the ground red Emergency Stop button to the Off position (pushed in).
 - **Result:** No functions should operate.
2. Pull out the ground red Emergency Stop button to the On position (pulled out).

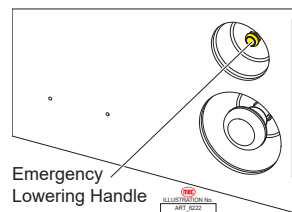
Test Up/Down Functions

A buzzer with different sound frequency is controlled in central system. The descent alarm sounds at 60 beeps per minute. The descent delay alarm sounds at 120 beeps per minute. The alarm that goes off when the pothole guards have not deployed sounds at 180 beeps per minute. The alarm that goes off when the machine is not level sounds at 180 beeps per minute. An automotive-style horn is equipped.

1. At the lower controls, turn the Key Switch to Off or Platform position.
2. At the lower controls, press and hold the Platform Up or Platform Down button.
 - **Result:** No function should operate.
3. Turn the Key Switch to ground control position.
4. At the lower controls, press and hold the Function Enable Button and the Platform Up button.
 - **Result:** The platform should raise.
5. Press and hold the Function Enable Button and hold the Platform Down button.
 - **Result:** The platform should lower to end. The descent alarm should sound while the platform is lowering.

Test the Emergency Lowering

1. Activate the up function and raise the platform approximately 2 feet (60 centimeters).
2. Press the Emergency Lowering button.
 - **Result:** The platform should lower. The descent alarm will not sound.



At the Platform Controls

1. Turn the Key Switch to platform control.

Test Emergency Stop

1. Push in the platform red Emergency Stop button to the Off position (pushed in).
 - **Result:** No functions should operate.
2. Pull out the red Emergency Stop button to the On position (pulled out).
 - **Result:** The LED indicator light should come on.

Test the Horn

1. Push the horn button.
 - **Result:** The horn should sound.

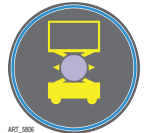


Test Function Enable and Up/Down Functions



Check the area above and around the machine for obstructions and electrical power lines before operating the machine.

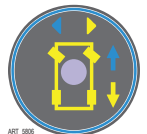
1. Press the lift function select button. The indicator light should turn on.
2. Do not hold the Function Enable Switch on the control handle.
3. Slowly move the control handle forward/downward, then rearward/upward.
 - **Result:** No functions should operate.
4. Press and hold the Function Enable Switch on the control handle.
5. Slowly pull the control handle rearward/upward.
 - **Result:** The platform should raise. The pothole guards should deploy.
6. Release the control handle.
 - **Result:** The platform should stop raising.
7. Press and hold the Function Enable Switch. Slowly push the control handle forward/downward.
 - **Result:** The platform should lower. The descent alarm should sound while the platform is lowering.



Test the Steering

Note: When performing the steer and drive function tests, stand in the platform facing the steer end of the machine.

1. Press the drive function select button.
2. Press and hold the Function Enable Switch on the control handle.
3. Depress the thumb rocker switch on top of the control handle in the direction identified by the blue left arrow on the control panel.
 - **Result:** The steer wheels should turn in the direction that the blue left arrow points on the control panel.
4. Depress the thumb rocker switch in the direction identified by the yellow right arrow on the control panel.
 - **Result:** The steer wheels should turn in the direction that the yellow right arrow points on the control panel.



Test Drive and Braking

1. Press the drive function select button. The indicator light should turn on.
2. Press and hold the Function Enable Switch on the control handle.
3. Slowly move the control handle forward/downward until the machine begins to move, then return the handle to the center position.
 - **Result:** The machine should move forward, in the direction of the steering wheels, then come to an abrupt stop.
4. Press and hold the Function Enable Switch on the control handle.

5. Slowly move the control handle rearward/upward until the machine begins to move, then return the handle to the center position.
 - **Result:** The machine should move rearward, in the direction of the platform entry, then come to an abrupt stop.

Note: The brakes must be able to hold the machine on any slope it is able to climb.

Test Limited Drive Speed

1. Press the lift function select button.
2. Press the Function Enable Switch. Raise the platform approximately 3 feet (1 meter) from the ground.
 - **Result:** The pothole guards should deploy.
3. Press the drive function select switch.
4. Press and hold the Function Enable Switch on the control handle.
5. Slowly move the control handle to the full drive position.
 - **Result:** The maximum achievable drive speed with the platform raised should not exceed 0.5mph (0.8km/h).
 - **Result:** If the drive speed with the platform raised exceeds 0.5mph (0.8km/h), immediately tag and remove the machine from service.

Test the Tilt Sensor Operation

Note: Perform this test from the ground with the platform controller. Do not stand in the platform.

1. Fully lower the platform.
2. With the machine stowed drive forward onto a slope of approximately 5°.
3. Raise the platform at least 6 feet (2 meters).
 - **Result:** The platform should stop and the tilt alarm will sound at 180 beeps per minute. The platform controls LED readout should display “LL”.
4. Press the drive function select button.
5. Press and hold the function enable switch on the control handle.
6. Move the drive control handle in the direction indicated by the blue up arrow, then move the drive control handle in the direction indicated by the yellow arrow.
 - **Result:** The drive function should not work in either direction.
7. Lower the platform and drive the machine off the slope.



Test the Pothole Guards

Note: The pothole guards should automatically deploy when the platform is raised. The pothole guards activate another limit switch which allows the machine to continue to function. If the pothole guards do not deploy, an alarm sounds and the machine will not drive and lift.

1. Raise the platform.
 - **Result:** When the platform is raised approximately 3 feet (1 meter) from the ground, the pothole guards should deploy.
2. Press on the pothole guards on one side, and then the other.
 - **Result:** The pothole guards should not move.
3. Lower the platform.

- **Result:** The pothole guards should return to the stowed position.
4. Place a 2×4 inches (5×10 centimeters) or similar piece of wood under a pothole guard. Raise the platform.
 - **Result:** When the platform is raised approximately 3 feet (1 meter) from the ground, the pothole alarm will sound at 180 beeps per minute, and the platform controls LED screen readout should display “18”.
 5. Press the drive function select button.
 6. Press and hold the function enable switch on the control handle.
 7. Move the control handle in the direction indicated by the blue arrow, and then move the control handle in the direction indicated by the yellow arrow.
 - **Result:** The drive function should not work in either direction.
 8. Press and hold the function enable switch on the control handle.
 9. Depress the thumb rocker switch on top of the control handle in the direction identified by the blue and white arrow on the control panel.
 - **Result:** The steer function should not work in either direction.
 10. Lower the platform and remove the 2×4 inches (5×10 centimeters) wood block.

Operating Instructions

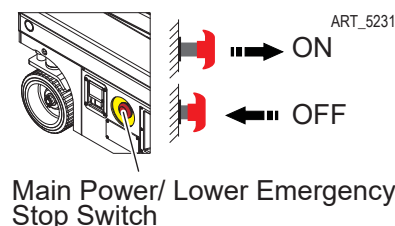


Check the area above and around the machine for obstructions and electrical power lines before operating the machine.

Emergency Stop

Push in the red Emergency Stop button to the Off position (pushed in) at the ground controls or the platform controls to stop all machine functions.

If any function operates when either red Emergency Stop button is pushed in, repair the Emergency Stop function before using the machine.



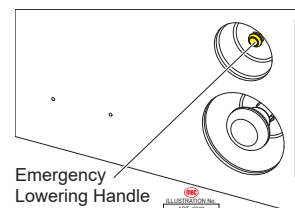
Emergency Lowering



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

Do not climb down the scissor assembly or exit the platform.

1. Activate the up function and raise the platform approximately 2 feet (60 centimeters).
2. Press the Emergency Lowering button.
 - **Result:** The platform should lower. The descent alarm will not sound.



Indoor/Outdoor Select Functions

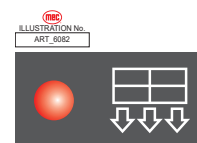
To select the Indoor/Outdoor Mode, press and hold the Menu Enter Button (#5) for a few seconds to switch to Indoor or Outdoor.

- **INDOOR**
 - Select to allow unrestricted height when not exposed to wind.
- **OUTDOOR**
 - Select to limit the maximum height when exposed to wind.

Platform Overload

Indicates too much weight on the platform.

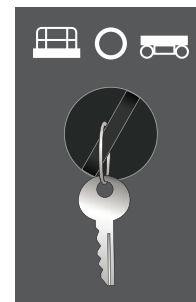
Remove weight from the platform to restore function and continue.



Operation from Ground

Drive and steer functions are not available from the ground controls.

1. Turn the Key Switch to ground control.
2. Pull or turn the red Emergency Stop button clockwise to the On position (pulled out) at both the ground and platform controls.
3. Be sure the battery pack is connected before operating the machine.



ART_4989



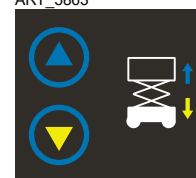
Check the area above and around the machine for obstructions and electrical power lines before operating the machine.

To Position Platform

To activate the Platform Lift/Lower function, the Function Enable Button must be pushed and held while pressing one of the two colored buttons.

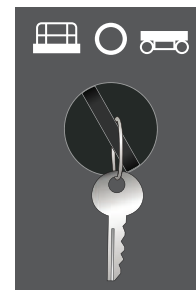
- Press the blue up arrow to raise the platform.
- Press the yellow down arrow to lower the platform.

ART_5863



Operation from Platform

1. Turn the Key Switch to platform control.
2. Pull or turn the red Emergency Stop button clockwise to the on position at both the ground and platform controls.
3. Be sure the battery pack is connected before operating the machine.



ART_4987



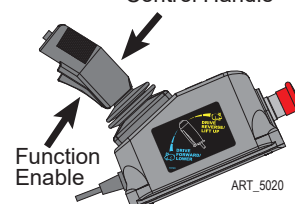
Check the area above and around the machine for obstructions and electrical power lines before operating the machine.

To Position Platform

1. Press the lift function select button.
2. Press and hold the Function Enable Switch on the control handle.
3. Pull the control handle upward to raise the platform.
4. Push the control handle downward to lower the platform.



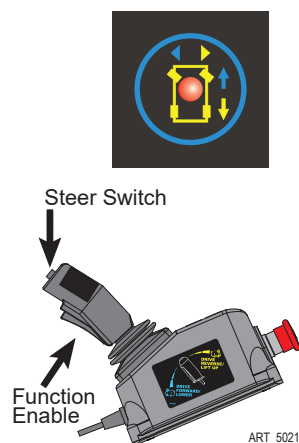
Control Handle



ART_5020

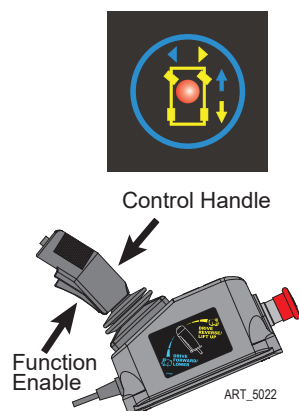
To Steer

1. Press the drive function select button.
2. Press and hold the Function Enable Switch on the control handle.
3. Turn the steer wheels with the thumb rocker switch located on the top of the control handle.



To Drive

1. Press the drive function select button.
2. Press and hold the Function Enable Switch on the control handle.
 - **Increase speed:** Slowly move the control handle off center.
 - Push the control handle forward to move forward. Pull the control handle rearward to move rearward.
 - **Decrease speed:** Slowly move the control handle toward center.
 - **Stop:** Return the control handle to center or release the Function Enable Switch.



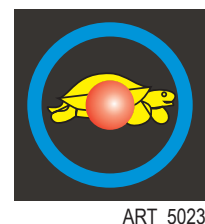
Use the color-coded direction arrows on the platform controls to identify the direction the machine will travel.

Machine travel speed is restricted when the platform is raised. Battery condition will affect machine performance. Machine drive speed and function speed will drop when the battery level indicator is flashing.

To Selected Drive Speed

The drive controls can operate in two different drive speed modes.

- When the drive speed button light is on, slow drive speed mode is active.
- When the button light is off, fast drive speed mode is active.



Press the drive speed button to select the desired drive speed.

Driving on a Slope

Determine the slope and side slope ratings for the machine and determine the slope grade.

- Maximum forward/rearward slope rating, stowed position 25%.
- Maximum side slope rating, stowed position 10°.

Note: Slope rating is subject to ground conditions and adequate traction.

To determine the slope grade

Measure the slope with a digital inclinometer OR use the following procedure. You will need:

- Carpenter's level
- Straight piece of wood, at least 3.3 feet (1 meter) long
- Tape measure

Lay the piece of wood on the slope.

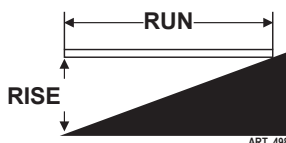
At the downhill end, lay the level on the top edge of the piece of wood and lift the end until the piece of wood is level.

While holding the piece of wood level, measure the distance from the bottom of the piece of wood to the ground.

Divide the tape measure distance (rise) by the length of the piece of wood (run) and multiply by 100.

Example:

- Run = 12 feet / 3.6 meter
- Rise = 12 inches / 0.3 meter
- $12 \text{ inches} \div 144 \text{ inches} = 0.083 \times 100 = 8.3\%$
- $0.3 \text{ meter} \div 3.6 \text{ meter} = 0.083 \times 100 = 8.3\%$



If the slope exceeds the maximum slope or side slope rating, the machine must be winched or transported up or down the slope. See Transport and Lifting section.

Operation from Ground with Controller



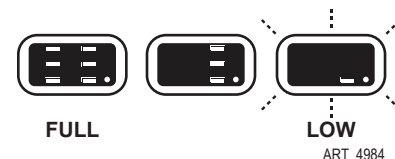
Use extreme caution when operating the machine with the controller from the ground.

Maintain safe distances between operator, machine and fixed objects.

Be aware of the direction the machine will travel when using the controller.

Battery Level Indicator

Use the LED diagnostic readout to determine the battery level.



To Extend and Retract Platform

1. Pull and turn the platform lock pin handle on the extension deck.
2. Push the platform extension guardrail to extend the platform.
3. Turn the handle and push the platform lock pin to the socket on the extension deck.
4. Reverse the above steps to retract platform.

Note: Do not stand on the platform extension while trying to extend and retract it.

Battery and Charger Instructions

Observe and Obey:

- Do not use an external charger or booster battery.
- Charge the battery in a well-ventilated area.
- Use proper AC input voltage for charging as indicated on the charger.
- Charge the battery as soon as receiving the machine or after long distance transportation
- When the battery is stored for a long time, it needs to be charged regularly. Failure to charge in time may permanently damage the battery.

Maintenance-Free Battery

1. Connect the battery charger to a grounded AC circuit.
2. The charger will indicate when the battery is fully charged.

Note: In order to achieve an optimal service life, discharge of over 60% of the rated capacity should be avoided. Discharge of over 80% of the rated capacity is a deep discharge and is not permissible. These significantly reduce the service life of the battery. Only those discharge state indicators that have been approved by the battery manufacturer may be used.

Discharged batteries must be charged immediately and must not remain in discharged state. This also applies to batteries in a state of deep discharge. Otherwise, the service life of the battery will be significantly reduced. The battery may freeze when in discharged state. Charge the battery immediately when the machine displays “36” or “68” alarm code during work.

During the charging process, if temperatures are consistently higher than 122°F (50°C) or lower than 5°F (-15°C), stop charging to check whether the battery and charger are normal.

Emergency Procedures

General

This section provides information on the procedures to be followed and on the systems and controls to be used in the event an emergency situation is encountered during machine operation. Prior to operation of the machine and periodically thereafter, the entire operating manual, including this section, should be reviewed by all personnel whose responsibilities include any work or contact with the machine.

Emergency Towing Procedures

Towing this machine is prohibited, except in emergencies. However, provisions for moving the machine, in case of a malfunction or power failure, have been incorporated. The following procedures are to be used **ONLY** for emergency movement to a suitable maintenance area.

1. Chock wheels securely.
2. Release the brake. See page 31 for instructions.
3. Connect suitable equipment.

After moving machine, complete the following procedures

1. Position machine on a firm and level surface.
2. Chock wheels securely.
3. Lock the brake.
4. Remove chocks from wheels as needed.

Power/Emergency Stop Switches

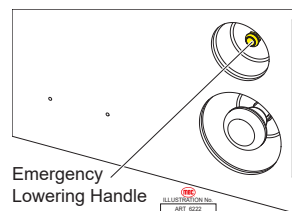
There is a red mushroom shaped switch at both the ground controls and platform controls. The round red switch is pulled out for normal machine functions. In an emergency, push the button to the down position with your palm and machine will immediately stop.

Ground Control Station

The Ground Control Station is located on the left side of the machine frame. The controls on this panel provide the means for overriding the platform controls and for controlling the platform lift up and down functions from the ground. Place the power select switch in the ground position and operate the lift switch to lift up or down.

Emergency Lowering

Push the emergency lowering button located on the ground controls side of the machine under the Main Power Switch. It has a yellow decal border.



Emergency Operation

1) Use of Ground Controls

- Know how to use the ground controls in an emergency situation.
- Ground personnel must be thoroughly familiar with the machine operating characteristics and the ground control functions. Training should include operation of the machine, review and understanding of this section and hands-on operation of the controls in simulated emergencies.

2) Operator Unable to Control Machine

- If the Platform Operator Is Pinned, Trapped or Unable to Operate or Control the Machine



DO NOT OPERATE WITH PRIMARY POWER SOURCE (ELECTRIC MOTOR) IF PERSONS ARE PINNED OR TRAPPED. USE AUXILIARY POWER INSTEAD.

1. Operate the machine from ground controls ONLY with the assistance of other personnel and equipment (cranes, overhead hoists, etc.) as may be required to safely remove the danger or emergency condition.
2. Other qualified personnel on the platform may use the platform controls with regular or auxiliary power. DO NOT CONTINUE OPERATION IF CONTROLS DO NOT FUNCTION NORMALLY.
3. Cranes, forklift trucks or other equipment which may be available are to be used to remove platform occupants and stabilize motion of the machine in case machine controls are inadequate or malfunction when used.

3) Platforms Caught Overhead

- If the platform becomes jammed or snagged in overhead structures or equipment, do not continue operation of the machine from either the platform or the ground until the operator and all personnel are safely moved to a secure location. Only then should an attempt be made to free the platform using any necessary equipment and personnel. Do not operate controls to cause one or more wheels to leave the ground.

4) Post Incident Inspections and Repair

- Following any incident, thoroughly inspect the machine and test all functions first from the ground controls, then from the platform controls. Do not lift above 10 feet (3 meters) until you are sure that all damage has been repaired, if required, and that all controls are operating correctly.

Transport and Lifting Instructions

Observe and Obey:

- The transport environment temperature should be within: -13°F (-25°C) to 131°F (55°C)
- Professional planning must be applied to control the movement of the machine when lifting it with a crane or forklift.
- Only qualified aerial lift operators should move the machine on or off the truck.
- The transport vehicle must be parked on a level surface.
- The transport vehicle must be secured to prevent rolling while the machine is being loaded.
- Be sure the vehicle capacity, loading surfaces and chains or straps are sufficient to withstand the machine weight. See the serial label for the machine weight.
- The machine must be on a level surface or secured before releasing the brakes.
- Only qualified forklift operators should lift the machine with a forklift.
- Be sure the crane capacity, loading surfaces and straps or lines are sufficient to withstand the machine weight. See the serial plate for the machine weight.

Brake Release Operation

1. Chock the wheels to prevent the machine from rolling.
2. Pull out the platform and emergency red Emergency Stop button to the “On” position.
3. Turn the key switch to the “ground” position while pressing and holding down the “Menu Enter Button” button on the ECU panel to enter the password input screen .
4. Press the “Menu Enter Button” 4 times to enter the Menu screen .
5. Press either the “Menu Up Button” or “Menu Down Button” button to switch to the Special mode (“ 4. Special Mode “)
6. Press the “Menu Enter Button” button to display the Special mode. Press either the “Menu Up Button” or “Menu Down Button” button to switch to the manual push menu (“ 1. Brake Release “)
7. Press “Menu Enter Button” button to display “long press to confirm release of brake”. Press and hold down the “Menu Enter Button” button to show “Brake Released!” The horn will sound signaling that all brakes have been released.
8. To reset the brakes, push the emergency stop switch.

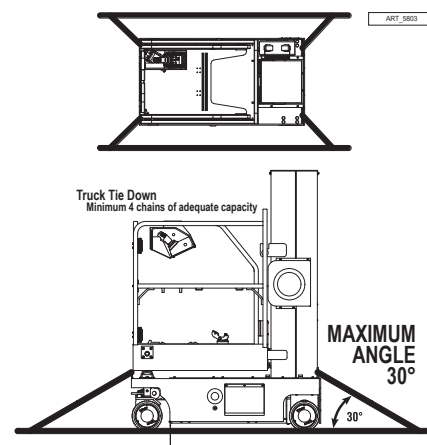
If the machine must be towed, do not exceed 2.5mph (4.0km/h).

Securing to Truck or Trailer for Transit

- Turn the key switch to the “Off” position and remove the key before transporting.
- Inspect the entire machine for loose or unsecured items.

Securing the Chassis

- Use chains of ample load capacity.
- Use a minimum of 4 chains.
- Adjust the rigging to prevent damage to the chains.
- Do not exceed 30° angle as shown.



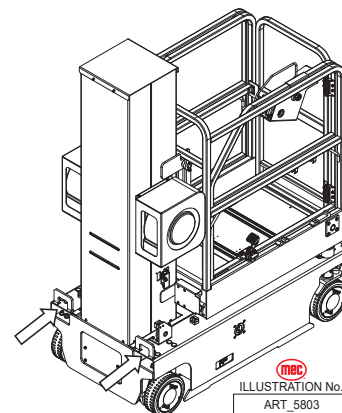
Lifting the Machine with a Forklift

Be sure the controls and component trays are secure. Remove all loose items on the machine.

Fully lower the platform. The platform must remain lowered during all loading and transport procedures.

- Only qualified forklift operators should lift the machine with a forklift.

Insert forks into the fork pockets as shown in the image. Position the forklift forks in position as the figure above.



Insert forks completely into the fork pockets.

Raise the machine 6 inches (15 centimeters) and then tilt the forks back slightly to keep the machine secure.

Be sure the machine is level when lowering the forks.

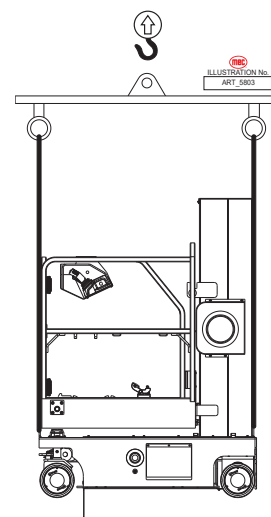
Lifting Instructions

- Only qualified riggers should rig and lift the machine.
- Be sure the crane capacity, loading surfaces and straps or lines are sufficient to withstand the machine weight. See the serial plate for the machine weight.

Fully lower the mast. Remove all loose items on the machine.

Attach the rigging only to the designated lifting points (tie-down points) on the machine. There are four lifting points (tie-down points) on the chassis.

Adjust the rigging to prevent damage to the machine and to keep the machine level.



Loading and Unloading Instructions

1. Mast Machines must be winched on and off any trailer with a ramp.
2. Follow the brake release instructions and preparation for a winching operation contained in the Operator's Manual.
3. If driving is the only choice, ensure the drive wheels are facing downhill.
4. Ensure the surface has adequate traction on all wheels for even braking.
5. Control the machine by walking alongside using the platform control unit.
6. Select slow drive speed and use extreme caution by driving slowly and smoothly on the ramp.
7. Control the machine from a safe distance during this operation.

Storage procedure

The machine should be stored as below if it should not be used for long period.

- The environment temperature should be within -4°F (-20°C) to 122°F (50°C)

- The environment humidity $\leq 90\%$.
1. The machine should be stored indoor and the ground should be firm and level. If stored outdoor the machine should be covered to protect from water and dust.
 2. Ensure the machine has been cleaned and functional, before placed in storage. Repair or maintain it if necessary.
 3. Place the machine in a suitable position so that driving or moving the machines is convenient.
 4. Every 60 days the battery must be charged to full capacity.

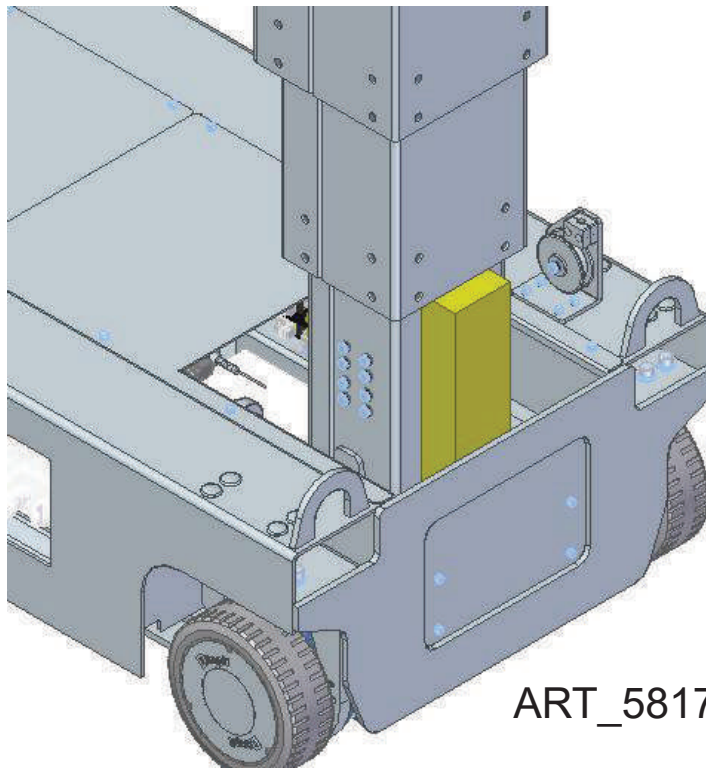
The machine can not be used to service until it has been inspected and maintained according to the daily check procedure.

Maintenance Safety



Make sure that a chock is used during when working under an elevated platform.

NEVER perform work on the machine with the platform elevated without first using a 2×4 inch (35×90 millimeter) piece of wood to support the mast section as is shown below. Alternatively the platform can be supported with either a forklift or a crane.



ART_5817

Maintenance Inspection Report

MMAE Series (All Electric Mast Lifts)

Fleet Equipment Number _____	Date _____
Inspector Name _____	Inspector Co. _____
Model Number _____	Address _____
Serial Number _____	Signature _____
Hour Meter _____	
Machine Owner & address _____	

Maintain all service records in accordance with ANSI A92.24-2019

* If an inspection receives an "N", remove from service. Once repaired, place an "R" in the box.

* Refer to the proper service manual for specific information, settings and torque specifications.

Key Y = Yes, Acceptable N = No, Remove from Service R = Repaired 0 = Not Applicable

☐

QUARTERLY - Inspect only those marked "Q"

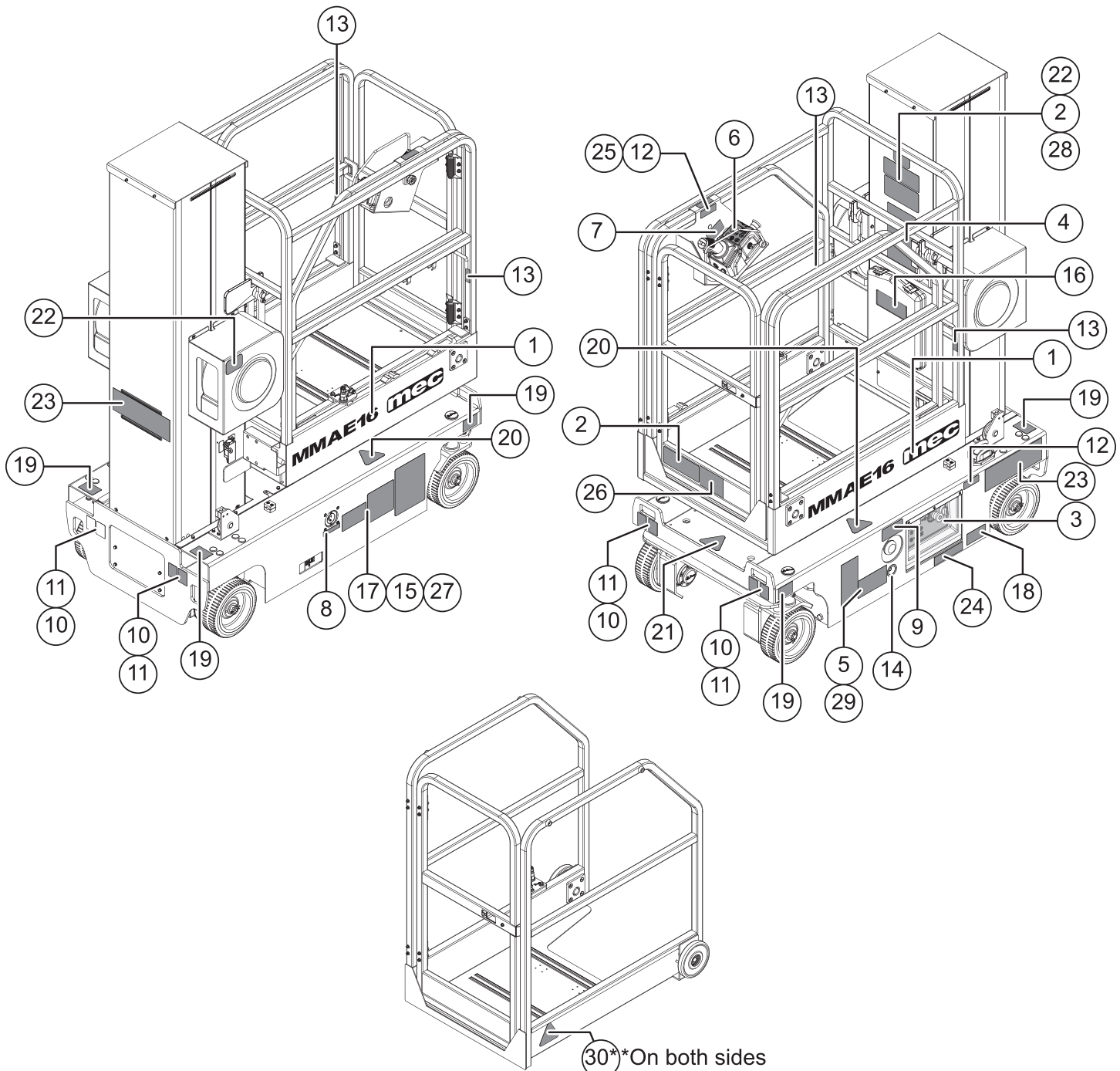
☐

ANNUAL - Inspect all items

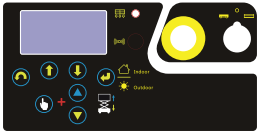



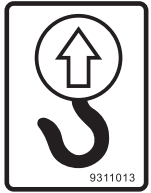


	Q/A	Y/N/O	R
DECALS:			
Legible - undamaged/readable	Q		
Capacity decal correct for model	Q		
RAILS:			
Not damaged, all in place	Q		
All rail fasteners secure	Q		
Entry gate secure, closes properly	Q		
Manual box in good condition	Q		
Operators Manual in manual box	Q		
PLATFORM EXTENSION:			
Rolls in and out freely	Q		
Lock holds deck in place	Q		
Release Pin moves freely, retains platform	Q		
ELEVATING ASSEMBLY:			
Mast Slide Blocks, lubed	Q		
Mast structures: Straight, no cracks	Q		
Welds: secure, no cracks	Q		
Cables tensioned correctly	Q		
Chains secure, not stretched	A		
Lift Actuator no visible damage	A		
ELECTRICAL:			
GFCI operates correctly	Q		
Wire harnesses good cond, secure	A		
Comm cable no damage, secure	A		
Retractable Cord Reel operational	Q		
Emergency stop, stops power/operation	Q		

	Q/A	Y/N/O	R
WHEELS:			
Tire, damage, excessive wear	Q		
Lug nuts (Wheel mounting) torqued correctly	Q		
King Pins lubed	A		
COMPONENT AREA (Under Cover):			
Motor Controller - cables tight, no corrosion	Q		
Wires not damaged - Plugs tight	Q		
Limit Switches - adjustment, operation, lubed	Q		
Cleanliness - All debris, excessive dirt removed	Q		
Batteries properly filled and cables clean	Q		
Battery switch cuts battery feed	Q		
Cover Doors secure, locks operate correctly	Q		
Fasteners present and tight	Q		
BASE			
Fasteners present and tight	Q		
Cover panels secure	Q		
Welds	A		
OPERATIONAL INSPECTION:			
All functions, operate smooth and quiet	Q		
All functions, speeds correct	Q		
Upper control box, operates correctly	Q		
Emergency Down, operates correctly	Q		
Limit switches slows drive when elevated	Q		
Indoor/outdoor limit switch set test	Q		
Pothole switch test	Q		
Battery Charger operation	Q		

Decals



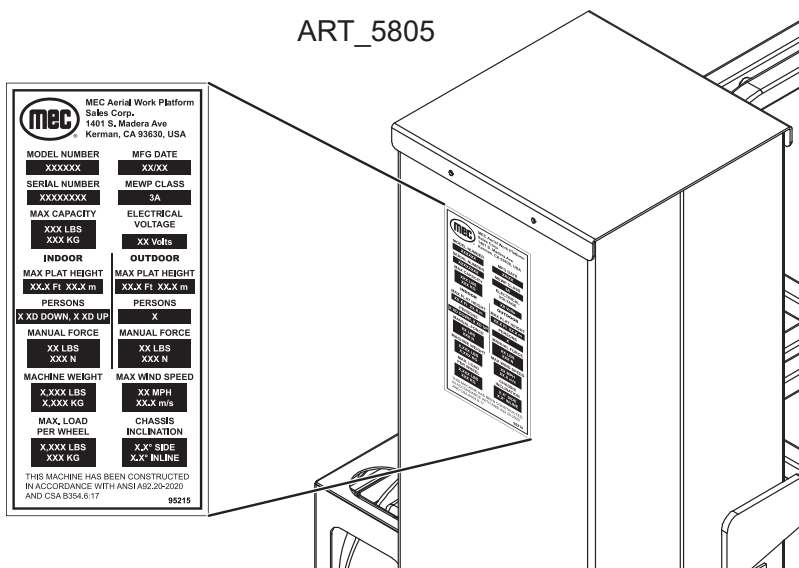
PLATFORM EXTENDED

<p>1</p> <p>MMAE16 mec</p> <p>95731 Qty. - 2</p>	<p>2</p> <p>WARNING</p> <p>INDOOR - 1 PERSON 300 LBS (227 KG) 45 MPH (72 KM/H) 45 LBS (200 N) 500 LBS (227 KG) 45 MPH (72 KM/H) 45 LBS (200 N)</p> <p>OUTDOOR 1 PERSON 300 LBS (227 KG) 45 MPH (72 KM/H) 45 LBS (200 N)</p> <p>95835 Qty. - 2</p>	<p>3</p>  <p>44795 Qty. - 1</p>	<p>4</p> <p>⚠ DANGER</p>  <p>43885 Qty. - 1</p>	<p>5</p>  <p>95215 Qty. - 1</p>
<p>6</p>  <p>44797 Qty. - 1</p>	<p>7</p> <p>DRIVE FORWARD/LOWER</p> <p>DRIVE REVERSE/LIFT UP</p> <p>94120 Qty. - 1</p>	<p>8</p> <p>BATTERY CHARGER AND POWER TO PLATFORM</p> <p>94659 Qty. - 1</p>	<p>9</p> <p>NOTICE</p> <p>Cut off the power when the machine is repaired or not used for long period.</p> <p>ON OFF</p> <p>943910 Qty. - 1</p>	<p>10</p>  <p>41635 Qty. - 4</p>
<p>11</p>  <p>41634 Qty. - 4</p>	<p>12</p> <p>Refer the operator to the instructions for use.</p> <p>9314013</p> <p>41639 Qty. - 2</p>	<p>13</p> <p>Restraint only 1 Occurrence</p> <p>9414123UM</p> <p>41648 Qty. - 4</p>	<p>14</p> <p>EMERGENCY LOWERING</p> <p>95847 Qty. - 1</p>	<p>15</p> <p>⚠ DANGER</p> <p>Explosion/Burn Hazard</p> <p>Ignition of explosive gases or contact with open flame will cause death, burns or blindness.</p> <p>Keep all open flames and sparks away. When personnel are on the equipment, including fire shields, gloves and/or flame-retardant clothing.</p> <p>Read Manuals</p> <p>Read all manuals prior to operation. DO NOT OPERATE equipment if you do not understand the information in the manuals. Consult your supervisor, the owner or the manufacturer.</p> <p>9431013</p> <p>41641 Qty. - 1</p>
<p>16</p> <p>WARNING</p> <p>Upon delivery of this machine through sale, rental, lease, or any other transfer of possession, the following shall be done:</p> <ol style="list-style-type: none"> The entity transferring possession has done so based on all available information regarding where, when and how this machine will be used and operated. The entity accepting possession has been familiarized and trained as set forth by the manufacturer and in full compliance with all applicable codes, standards, regulations and laws. <p>Failure to adhere to the above requirements may result in death, personal injury or property damage.</p> <p>8911 Operator's Manual inside this box.</p> <p>8911 Qty. - 1</p>	<p>17</p> <p>WARNING</p> <p>Tip-over Hazard</p> <p>Do not use batteries that weigh less than the original equipment. Batteries are used as counterweight and are critical to machine stability. Each battery must weigh 100 lbs / 45 kg. The batteries must weigh a minimum of 200 lbs / 91 kg.</p> <p>44844 Qty. - 1</p>	<p>18</p> <p>DO NOT POWERWASH OR SPRAY ELECTRONIC COMPONENTS OR CONNECTORS. MOISTURE MAY CAUSE DAMAGE AND/OR ERRATIC OPERATION</p> <p>90732 Qty. - 1</p>	<p>19</p> <p>WARNING</p> <p>MAXIMUM TIE-DOWN ANGLE 30°</p> <p>94362 Qty. - 4</p>	<p>20</p>  <p>9910 Qty. - 2</p>
<p>21</p>  <p>91850 Qty. - 3</p>	<p>22</p> <p>MEC - Model Info</p> <p>Text MMAE16 to 1 (844) 483-4669</p> <p>Manuals Brochures Warranty & More</p> <p>95837 Qty. - 2</p>	<p>23</p> <p>NetZero</p> <p>96686 Qty. - 2</p>	<p>24</p> <p>WARNING</p> <p>RELEASE BRAKES BEFORE TOWING TO PREVENT DAMAGE TO DRIVE SYSTEM</p> <p>42534 Qty. - 1</p>	<p>25</p> <p>Platform controller normal position.</p> <p>9314015</p> <p>41640 Qty. - 1</p>
<p>26</p> <p>mec</p> <p>94115 Qty. - 1</p>	<p>27</p> <p>WARNING</p> <p>1. Load the platform. 2. Move the machine to level surface.</p> <p>41649 Qty. - 1</p>	<p>28</p> <p>⚠ DANGER</p> <p>Tip-over Hazard</p> <p>1. Load the platform. 2. Move the machine to level surface.</p> <p>44598 Qty. - 1</p>	<p>29</p> <p>WARNING</p> <p>LOADING AND UNLOADING INSTRUCTIONS</p> <ol style="list-style-type: none"> 1) Meet Machines must be winched on and off any trailer with a ramp. 2) Follow the brake release instructions and preparation for a winching operation contained in the Operator's Manual. 3) If driving is the only choice, ensure the drive wheels are facing downhill. 4) Ensure the surface has adequate traction on all wheels for even braking. 5) Control the machine by walking alongside using the platform control unit. 6) Select slow drive speed and use extreme caution by driving slowly and smoothly on the ramp. 7) Control the machine from a safe distance during this operation. <p>96306 Qty. - 1</p>	

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.



Serial Plate Description

MODEL NUMBER: Identifies the machine.

MFG DATE: Month / Year of manufacture.

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

MEWP CLASS MEWP=Mobile Elevating Work Platform

MAX. CAPACITY: The maximum safe load (material, persons + equipment) which can be correctly placed on the platform at any elevation.

ELECTRICAL VOLTAGE: The voltage at which this machine operates.

MAX. PLATFORM HEIGHT (INDOOR): The indoors maximum attainable height measured from level ground surface to platform floor.

PERSONS (INDOOR): The maximum number of occupants indoors.

MANUAL FORCE (INDOOR): Amount of manual force need to move machine indoors.

MAX. PLATFORM HEIGHT (OUTDOOR): The outdoors maximum attainable height measured from level ground surface to platform floor.

PERSONS (OUTDOOR): The maximum number of occupants outdoors.

MANUAL FORCE (OUTDOOR): Amount of manual force need to move machine outdoors.

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

MAX WIND SPEED: The maximum wind speed for safe working conditions.

MAX. LOAD PER WHEEL: The maximum safe weight applied to each wheel. Calculated with all available options installed. $Fw = 30\% (Wm + Wc + Wopt)$

CHASSIS INCLINATION: The angle at which the tilt alarm sounds.



MEC Parts Order Form

Phone: 559-842-1523

Fax: 559-400-6723

Email: Parts@mecawp.com

Please Fill Out Completely:

Date: _____

Account: _____

Bill to: _____

Ordered By: _____

Your Fax No.: _____

Ship to: _____

Purchase Order Number _____

*** All orders MUST have a Purchase Order Number*

Ship VIA _____

***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)

Signature _____



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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