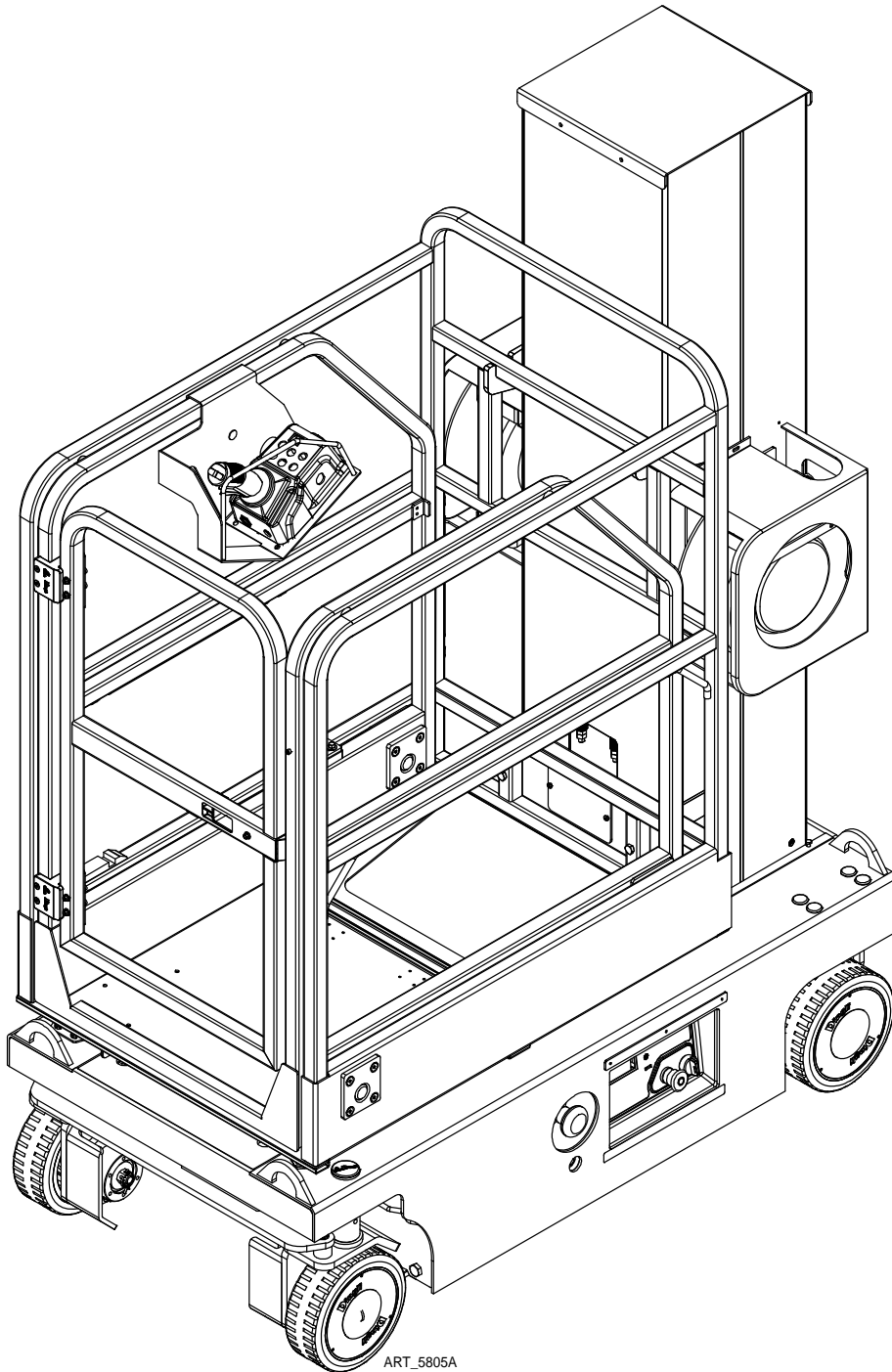




Operator's Manual

MMAE16



Serial Number Range
17400000 - Up

Part # 95810
July 2023

Revision History

Date	Reason for Update
January 2022	New Release



MEC Aerial Work Platforms

1401 S. Madera Avenue, Kerman, CA 93630 USA
Toll Free: 1-877-632-5438
Phone: 1-559-842-1500
Fax: 1-559-842-1520
info@MECawp.com
www.MECawp.com

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 and Safety Rules	5
<i>Hazards</i>	6
Section 5 - Components and Controls.	14
<i>Component Locations</i>	14
<i>Upper Controls.</i>	15
<i>Lower Controls.</i>	16
Section 6 - Pre-Operation & Workplace Inspection	17
<i>Pre-operation Inspection</i>	17
<i>Pre-operation Inspection Report</i>	18
<i>Workplace Inspection</i>	19
Section 7 - Function Tests	20
<i>Function Tests</i>	20
Section 8 - Operating Instructions	24
<i>Operating Instructions</i>	24
<i>Battery and Charger Instructions</i>	27
<i>Emergency Procedures</i>	28
Section 9 - Transport and Lifting Instructions.	30
<i>Transport and Lifting Instructions</i>	30
Section 10 - Maintenance	33
<i>Maintenance Safety</i>	33
<i>Maintenance Inspection Report</i>	34
Section 11 - Decals	35
<i>Decals</i>	35
<i>Serial Plate</i>	37

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:



MEC Aerial Work Platforms

1401 S. Madera Avenue, Kerman, CA 93630 USA
Toll Free: 1-877-632-5438
Phone: 1-559-842-1500
Fax: 1-559-842-1520
info@MECawp.com
www.MECawp.com

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.



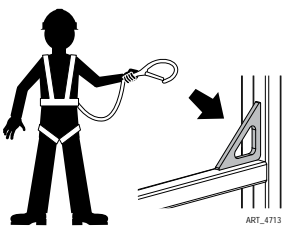
YELLOW without alert symbol and the word CAUTION – Indicates a potentially hazardous situation which, if not avoided, may result in property damage.



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

Height, Working Maximum*	Indoor	22 ft	6.7 m
	Outdoor	18 ft	5.5 m
Height, Platform Maximum	Indoor	16 ft	4.9 m
	Outdoor	12 ft	3.7 m
Height	Stowed Maximum	78.3 in	2 m
	Guard Rails	43.3 in	1.1 m
Maximum Personnel	Indoor	1	
	Outdoor	1	
Manual Force	Indoor	45 lbs	200 N
	Outdoor	45 lbs	200 N
Width		30 in	0.76 m
Length, Stowed		57 in	1.45 m
Platform Dimensions (Length x Width)		40 x 30 in	1.02 x 0.76 m
Platform Extension Length		20 in	0.5 m
Maximum Load Capacity		500 lbs	227 kg
Platform Extension Load Capacity		250 lbs	113 kg
Maximum Wind Speed		28 mph	12.5 m/s
Wheelbase		47.6 in	1.21 m
Turning Radius	Outside	70.8 in	1.8 m
	Inside	23.6 in	0.6 m
Ground Clearance		2.5 in	6.4 cm
Ground Clearance (Pothole Guards Deployed)		0.55 in	1.4 cm
Weight** (See Serial Label)		2,170 lbs	985 kg
Maximum Wheel Load		800 lbs	363 kg
Controls		Proportional	
AC Outlet In Platform		Standard	
Power Source		2x12V 115Ah AGM	
System Voltage		24 V	
Tire Size		9x3.1 in	230x80 mm
Airborne Noise Emissions		<70 dB (A-weighted) Maximum sound level at normal operating workstations Vibration value does not exceed 2.5m/s ²	
Maximum Slope Rating, Stowed Position***		25%	
Maximum Side Slope Rating, Stowed Position***		10%	
Warning Slope		X-1.5°, Y-3°	
Drive Speeds			
Stowed, Maximum		2.5 mph	4.0 km/h
Platform Raised, Maximum		0.5 mph	0.8 km/h
Floor Loading Information			
Tire Load, Maximum		800 lbs	363 kg
Tire Contact Pressure	Loaded	148 psi	10.4kg/cm ² (1,020 kPa)
	Unloaded	120 psi	8.5kg/cm ² (834 kPa)
Occupied Floor Pressure ****		225 psf	0.11kg/cm ² (10.8 kPa)
Meets requirements of ANSI A92.20-2020 and CSA B354.6-2019.			
*Working Height adds 6 feet (2 m) to platform height.			
**Weight may increase with certain options.			
***Slope rating is subject to ground conditions and adequate traction.			
****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) ~ 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	10 ft	3.05 m
50kV to 200kV	15 ft	4.60 m
200kV to 350kV	20 ft	6.10 m
350kV to 500kV	25 ft	7.62 m
500kV to 750kV	35 ft	10.67 m
750kV to 1,000kV	45 ft	13.72 m

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.

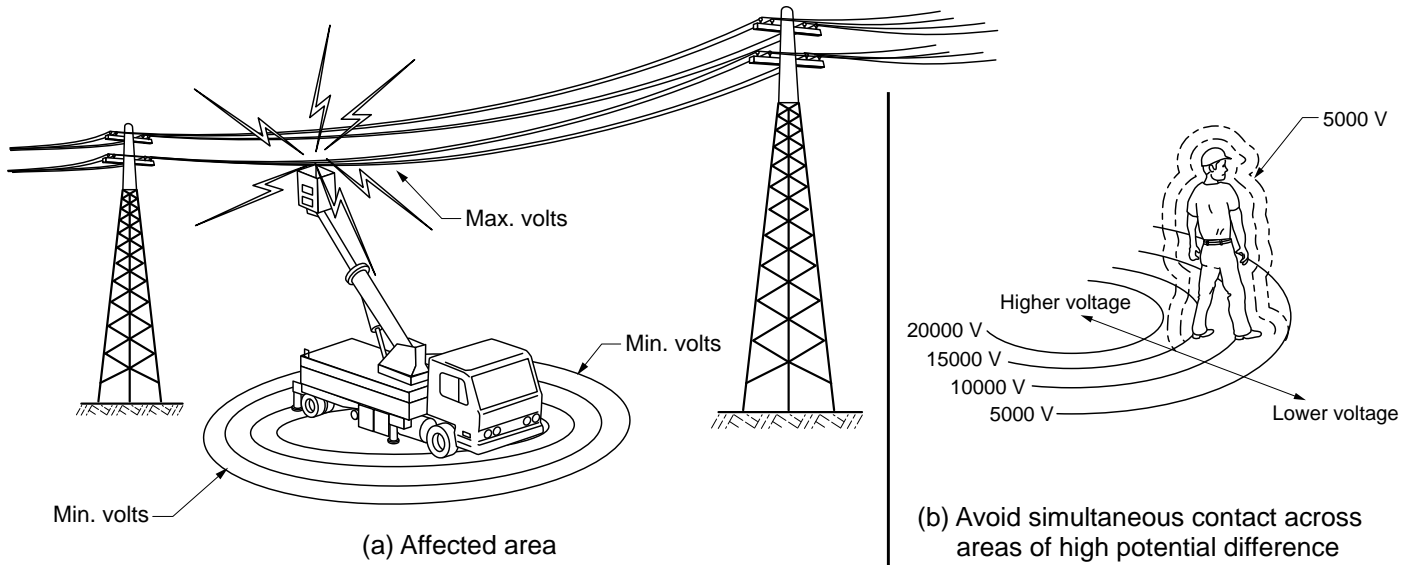
Do not use the machine as a ground for welding.

Keep clear of live electric conductors.

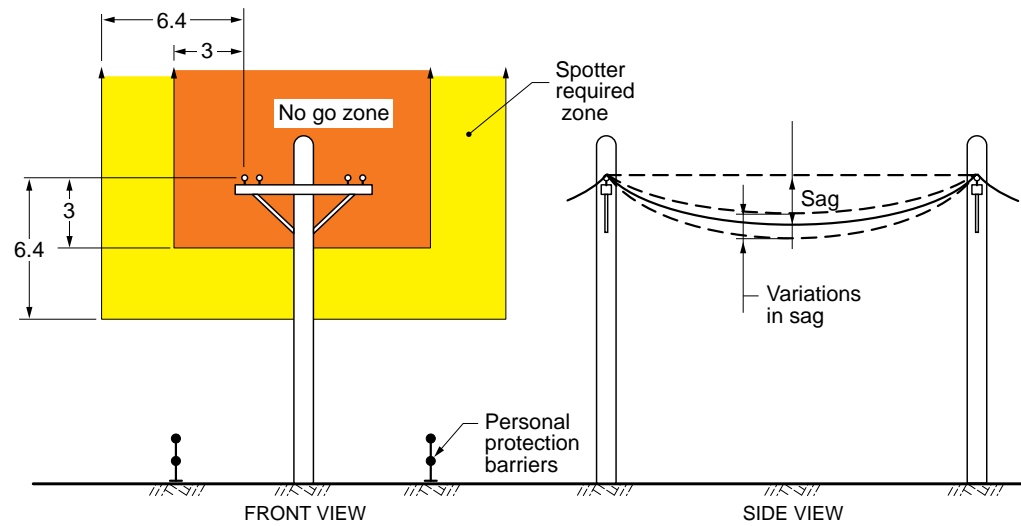
Energized Conductor Contact Hazard

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

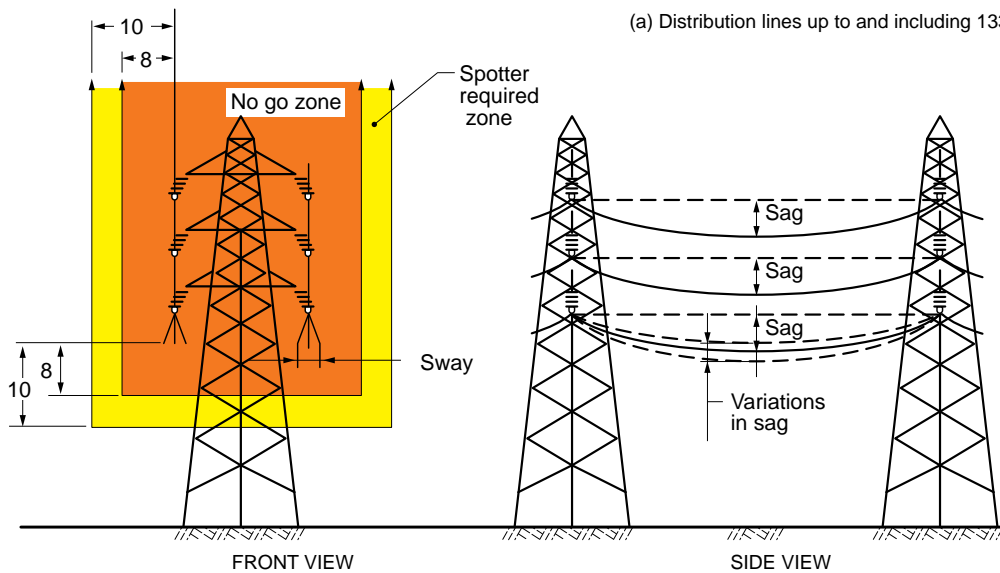
- Stay at least 10 feet away from power lines with any part of their body, conductive object or any part of the MEWP.
- If work requires working nearer than 10 feet, stop and consult a qualified person with respect to electrical transmission and distribution to have appropriate measures taken (such as de-energizing and grounding).
- 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.
- 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
	Outdoor	1
Maximum Allowable Load	Platform	500 lbs / 227 kg
	Extension Deck	250 lbs / 113 kg

WARNING: 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 0.5 mph (0.8 km/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.

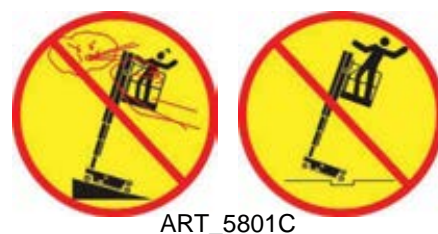
For outdoor use, do not raise the platform when wind speeds may exceed 28 mph (12.5 m/s). If wind speeds exceed 28 mph (12.5 m/s) when the platform is raised, lower the platform and do not continue to operate the machine.

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	90 lbs / 400N	2
Outdoor	45 lbs / 200N	1

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 100 lbs (46 kg).

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.



ART_5801D



ART_5801E

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.

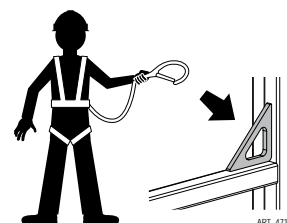
Slope rating applies to machines only in the stowed position.

MMAE16	Maximum Fore/Aft Slope Rating Stowed Position	Maximum Side Slope Rating Stowed Position
	25%	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.



ART_5801F

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.



ART_5801G

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

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



ART_5801H

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.



ART_5801I

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.



ART_5651

Explosion Hazard

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

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

**Component Damage Hazard**

Do not use any battery charger greater than 24V to charge the batteries in the chassis.

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.

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 100 lbs (46 kg).

Lifting Hazard

Use the appropriate lifting techniques when lifting batteries.

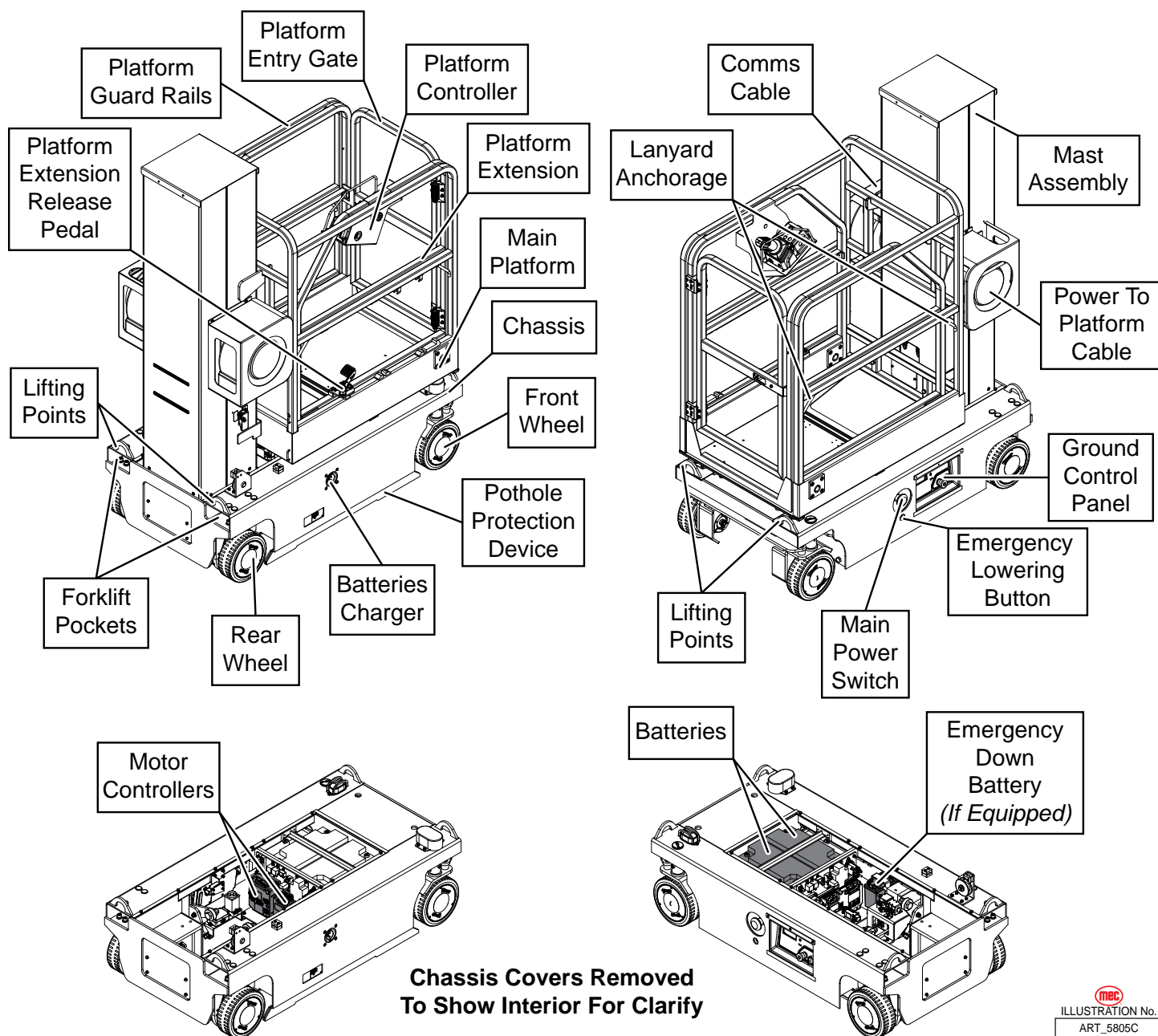
Pollution Hazard

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 "OFF" position.
5. Charge the batteries.

Component Locations



Upper Controls

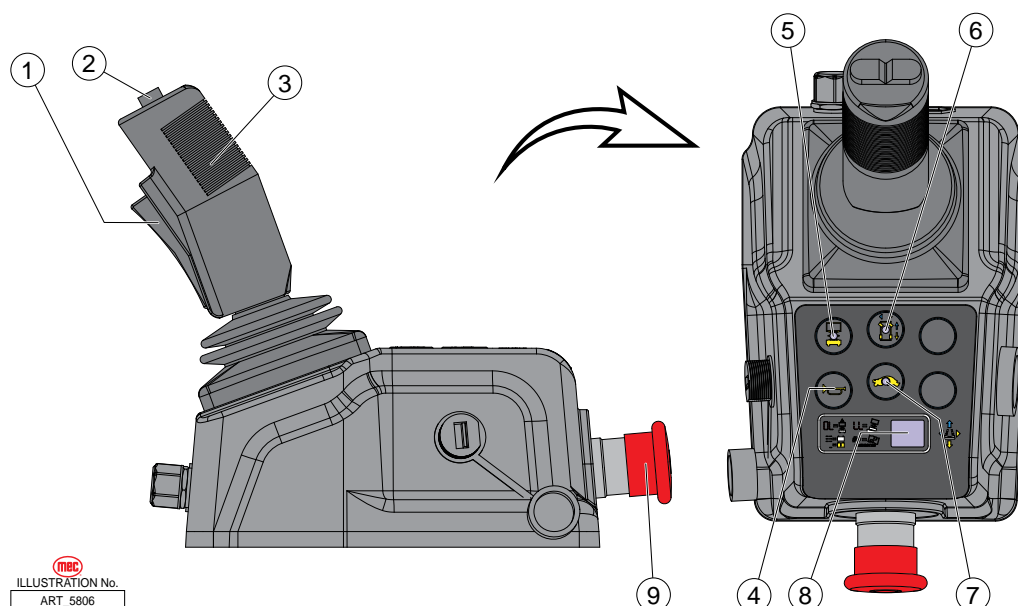


ILLUSTRATION No.
ART_5806



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

Control		Description
1	Function Enable Switch	Function Enable Switch for LIFT & DRIVE & STEER functions.
2	Thumb Rocker Switch	Press the thumb rocker switch in either direction to activate steer function.
3	Proportional 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 select the Lift function.
6	Drive Select	Press this button to select the drive function.
7	Drive Speed Button	Press this button to activate the slow or fast drive function.
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. Pull the button out to the "ON" position to operate the machine.

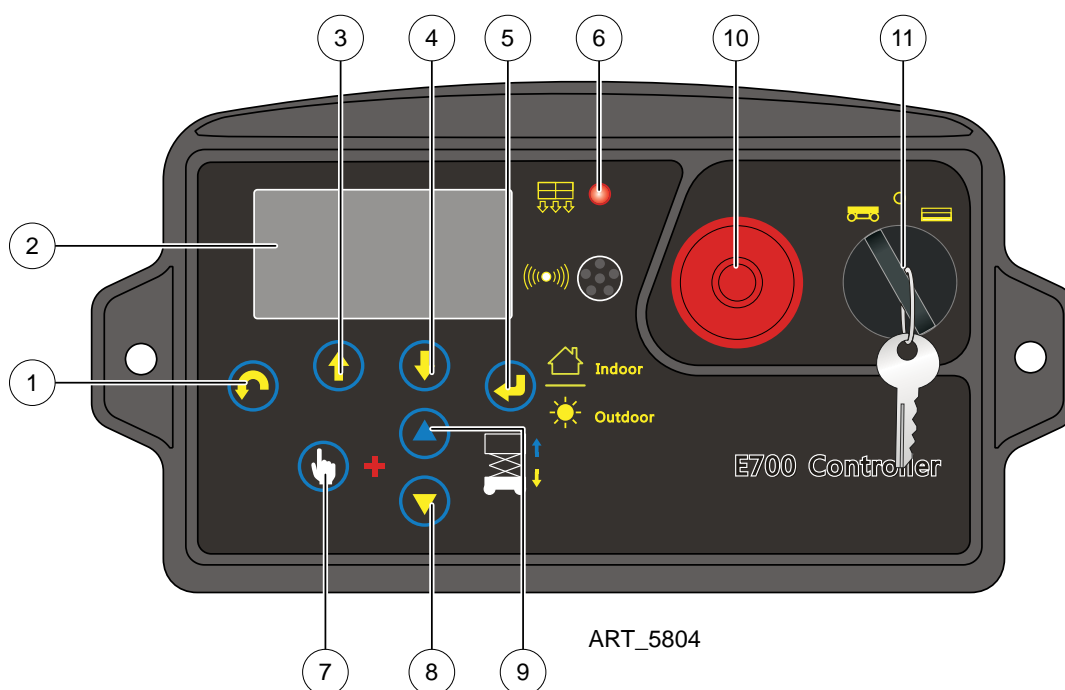
Lift function

- Press the Lift Select switch. Squeeze the Function Enable Switch then move the control handle in the direction indicated by the yellow arrow and the platform will raise. Squeeze the Function Enable Switch then move the control handle in the direction indicated by the blue arrow and the platform will lower. The descent alarm will sound while the platform is lowering.

Drive function

- Press the Drive Select switch. Squeeze the Function Enable Switch then move the control handle in the direction indicated by the blue arrow on the control panel and the machine will move in the direction that the blue arrow points. Squeeze the Function Enable Switch then move the control handle in the direction indicated by the yellow arrow on the control panel and the machine will move in the direction that the yellow arrow points.

Lower Controls



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. Remove weight from the platform.
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-operation Inspection Report

	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" to support the mast section as the image on page 33 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 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.
 4. **Always perform function tests prior to use. Know and understand the function tests before going on to the next section.**
 5. Only use the machine as it was intended.

Fundamentals

The function tests are designed to discover any malfunctions before the machine is put into service.

The operator must follow the step-by-step instructions to test all machine functions.

A malfunctioning machine must never be used. If malfunctions are 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 and function tests again before putting the machine into service.

Function Tests

1. Select a test area that is firm, level and free of obstruction.
2. Be sure the battery pack is connected.
3. Pull out the main power switch to "ON" position.

At the Ground Controls

1. Pull out the platform and ground red Emergency Stop button to the "ON" position.
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.

Art_5673

**Platform Display**

Indicates key is in the ground position.

Art_5673



Test Emergency Stop

1. Push in the ground red Emergency Stop button to the "OFF" position.
 - **Result:** No functions should operate.
2. Pull out the red Emergency Stop button to the "ON" position.

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 also

available.

1. Do not press the function enable button.
2. Press the platform up or platform down button.
 - **Result:** No function should operate.
3. Do not press the platform up or platform down buttons.
4. Press the function enable button.
 - **Result:** No function should operate.
5. Press and hold the function enable button, and press the platform up button.
 - **Result:** The platform should raise.
6. Press and hold the function enable button, and press the platform down button.
 - **Result:** The platform should lower. The descent alarm should sound while the platform is lowering. The platform stop at the height is approximately 6 feet (2 m) from the ground. The descent delay alarm will sound.

Note: Be sure the area below the platform is clear of personnel and obstructions before continuing.

7. Press and hold the function enable button, and press the platform down button.
 - **Result:** The platform should lower to end. The descent delay alarm should sound while the platform is lowering.

Test the Emergency Lowering

1. Activate the up function and raise the platform approximately 60 cm.
2. Push the emergency lowering button located on the ground controls side of the machine.
 - **Result:** The platform should lower. The descent alarm will not sound.
3. Turn the key switch to platform control.

At the Platform Controls

Test Emergency Stop

1. Push in the platform red Emergency Stop button to the “OFF” position.
 - **Result:** No functions should operate.
2. Pull out the red Emergency Stop button to the “ON” position.
 - **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

1. Do not hold the function enable switch on the control handle.
2. Slowly move the control handle in the direction indicated by the blue up arrow, then in the direction indicated by the yellow down arrow.
 - **Result:** No functions should operate.
3. Press the lift function select button.
4. Press and hold the function enable switch on the control handle.
5. Slowly move the control handle in the direction indicated by the blue up arrow.
 - **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 move the control handle in the direction indicated by the yellow down arrow.
 - **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. The indicator light should turn on.
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 white right arrow on the control panel.
 - **Result:** The steer wheels should turn in the direction that the white 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 in the direction indicated by the blue up arrow on the control panel until the machine begins to move, then return the handle to the center position.
 - **Result:** The machine should move in the direction that the blue up arrow points on the control panel, then come to an abrupt stop.
4. Press and hold the function enable switch on the control handle.
5. Slowly move the control handle in the direction indicated by the yellow down arrow on the control panel until the machine begins to move, then return the handle to the center position.
 - **Result:** The machine should move in the direction that the yellow down arrow points on the control panel, 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 Elevated Drive Speed

1. Press and hold the function enable switch. Raise the platform approximately 3 feet (1 m) from the ground.
 - **Result:** The pothole guards should deploy.
2. Press and hold the function enable switch on the control handle.
3. Slowly move the control handle to the full drive position.
 - **Result:** The maximum achievable drive speed with the platform raised should not exceed 0.5 mph.
 - **Result:** If the drive speed with the platform raised exceeds 0.5 mph, 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 approximately 6 feet (2 m) from the ground.
 - **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 control handle in the direction indicated by the blue up arrow, then move the control handle in the direction indicated by the yellow down 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 m) 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”x4” or similar piece of wood under a pothole guard. Raise the platform.
 - **Result:** When the platform is raised approximately 3 feet (1 m) 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 up arrow, and then move the control handle in the direction indicated by the yellow down 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”x4” wood block.

Operating Instructions

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 and perform a risk assessment.
 4. Always perform function tests prior to use.
 5. **Only use the machine as it was intended.**

Fundamentals

The Operating Instructions section provides instructions for each aspect of machine operation. It is the operator's responsibility to follow all the safety rules and instructions in the operator's, safety and responsibilities manuals. Using the machine for anything other than lifting personnel, along with their tools and materials, to an aerial work site is unsafe and dangerous.

Only trained and authorized personnel should be permitted to operate a machine. If more than one operator is expected to use a machine at different times in the same work shift, they must all be qualified operators and are all expected to follow all safety rules and instructions in the operator's, safety and responsibilities manuals. That means every new operator should perform a pre-operation inspection, function tests, and a workplace inspection before using the machine.

Emergency Stop

1. Push in the red Emergency Stop button to the "OFF" position at the ground controls or the platform controls to stop all machine functions.

Repair any function that operates when either red Emergency Stop button is pushed in.

Emergency Lowering

1. Raise the platform about 3 feet (1 meter) from the ground.
2. Push the emergency lowering button. The platform should lower to stowed.

Operation from Ground

1. Turn the key switch to ground control.
2. Pull out the platform and ground red Emergency Stop button to the "ON" position.
3. At the control panel, press and hold the lift function enable button.
4. Press the platform up or down button.

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

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.

Operation from Platform

1. Turn the key switch to platform control.
2. Pull out the platform and ground red Emergency Stop button to the "ON" position.

To Position Platform

1. Press the lift function select button.
2. Press and hold the function enable switch on the control handle.
3. Move the control handle according to the markings on the control panel.

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.
3. Increase speed: Slowly move the control handle off center.
 - **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 reduce 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 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.

Press the drive speed button to the fast drive speed mode.

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 ft / 1 m long
- Tape measure

Lay the piece of wood on the slope.

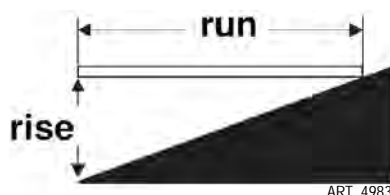
At the downhill end, lay the level on the top edge of the piece of wood and lift the end until the piece of wood is level.

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 ft / 3.6 m
- Rise = 12 in / 0.3 m
- $12 \text{ in} \div 144 \text{ in} = 0.083 \times 100 = 8.3\%$
- $0.3 \text{ m} \div 3.6 \text{ m} = 0.083 \times 100 = 8.3\%$



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.

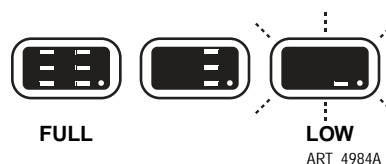
Operation from Ground with Controller

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 readout screen to determine the battery level.



To Extend and Retract Platform

1. Press the platform lock pin pedal on the extension deck by foot.
2. Push the platform extension guardrail to extend the platform to the desired position. Do not stand on the platform extension while trying to extend it.

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 30 for instructions.
3. Connect suitable equipment, remove

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.

Emergency Controls and Their Locations

Power/Emergency Stop Switches

1. There is a red mushroom shaped switch at both the Ground Controls and Platform Controls. When it is depressed it will immediately stop the machine.
2. Installed on the Platform Console, this round red switch is pulled up 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.



ART_5818

EMERGENCY
LOWERING
BUTTON

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 m) 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) ~ 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 rest the brakes, push the emergency stop switch.

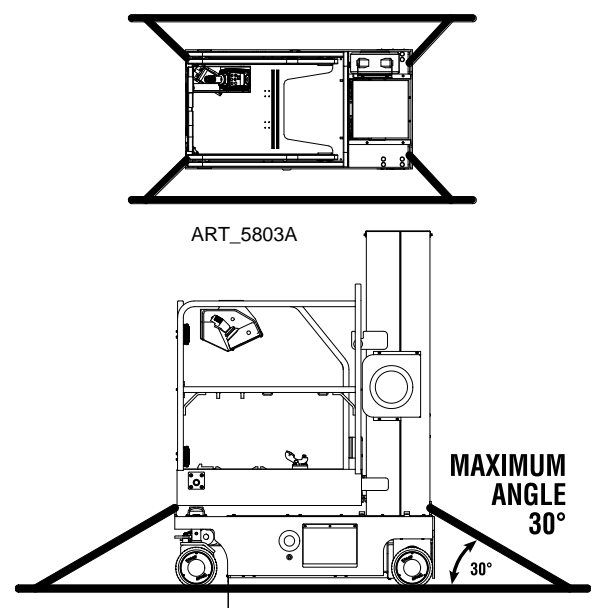
If the machine must be towed, do not exceed 2.5 mph (4.0km/h).

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.



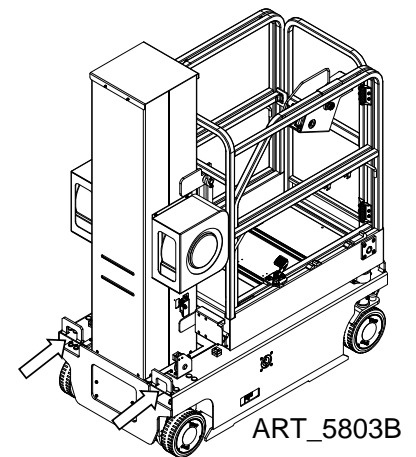
Lifting the Machine with a Forklift

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 in (15 cm) and then tilt the forks back slightly to keep the machine secure.

Be sure the machine is level when lowering the forks.

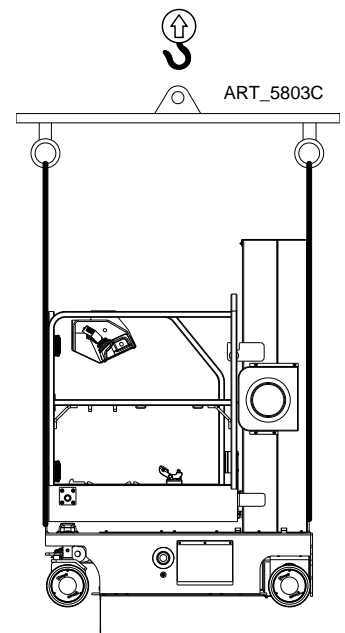
Lifting Instructions

- 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) ~ 122°F (50°C)
 - The environment humidity ≤ 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.

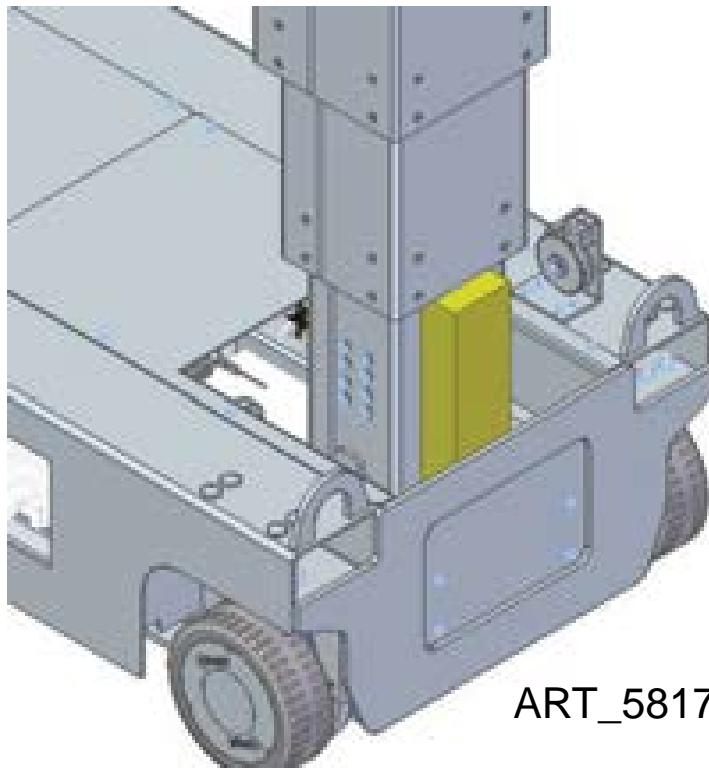
The machine can not be used to service until it has been inspected and maintained according to the daily check procedure.

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" 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 _____

Hour Meter _____ Signature _____

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.

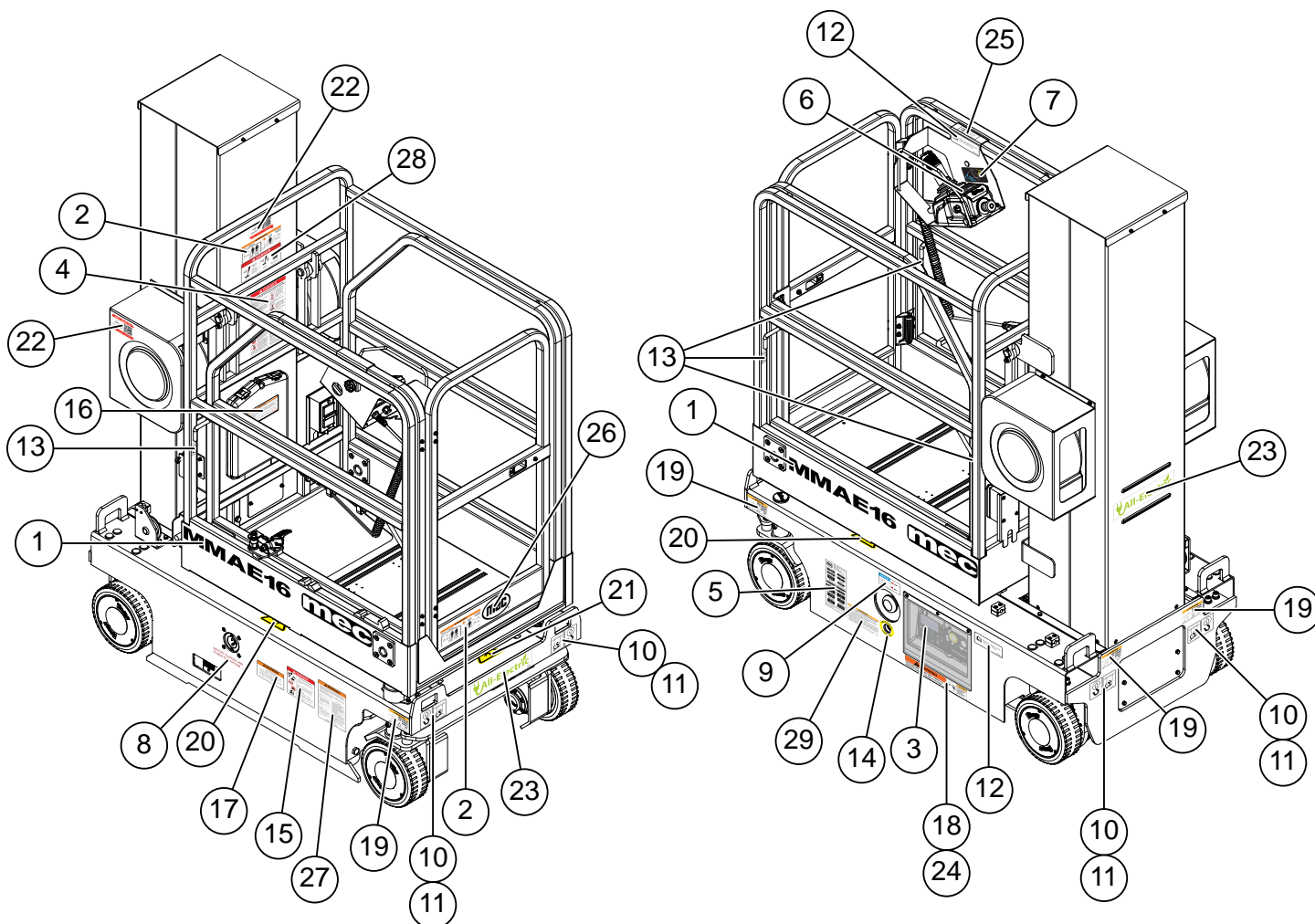
Key Y = Yes, Acceptable N = No, Remove from Service R = Repaired O = Not Applicable

☐ **QUARTERLY** - Inspect only those marked "Q"

☐ **ANNUAL** - Inspect all items

	Q/A	Y/N/O	R		Q/A	Y/N/O	R
DECALS:				WHEELS:			
Legible - undamaged/readable	Q			Tire, damage, excessive wear	Q		
Capacity decal correct for model	Q			Lug nuts (Wheel mounting) torqued correctly	Q		
RAILS:				King Pins lubed	A		
Not damaged, all in place	Q			COMPONENT AREA (Under Cover):			
All rail fasteners secure	Q			Motor Controller - cables tight, no corrosion	Q		
Entry gate secure, closes properly	Q			Wires not damaged - Plugs tight	Q		
Manual box in good condition	Q			Limit Switches - adjustment, operation, lubed	Q		
Operators Manual in manual box	Q			Cleanliness - All debris, excessive dirt removed	Q		
PLATFORM EXTENSION:				Batteries properly filled and cables clean	Q		
Rolls in and out freely	Q			Battery switch cuts battery feed	Q		
Lock holds deck in place	Q			Cover Doors secure, locks operate correctly	Q		
Release Pin moves freely, retains platform	Q			Fasteners present and tight	Q		
ELEVATING ASSEMBLY:				BASE:			
Mast Slide Blocks, lubed	Q			Fasteners present and tight	Q		
Mast structures: Straight, no cracks	Q			Cover panels secure	Q		
Welds: secure, no cracks	Q			Welds	A		
Cables tensioned correctly	Q			OPERATIONAL INSPECTION:			
Chains secure, not stretched	A			All functions, operate smooth and quiet	Q		
Lift Actuator no visible damage	A			All functions, speeds correct	Q		
ELECTRICAL:				Upper control box, operates correctly	Q		
GFCI operates correctly	Q			Emergency Down, operates correctly	Q		
Wire harnesses good condition, secure	A			Limit switches slows drive when elevated	Q		
Comm cable no damage, secure	A			Indoor/outdoor limit switch set test	Q		
Retractable Cord Reel operational	Q			Pothole switch test	Q		
Emergency stop, stops power/operation	Q			Battery Charger operation	Q		

Decals

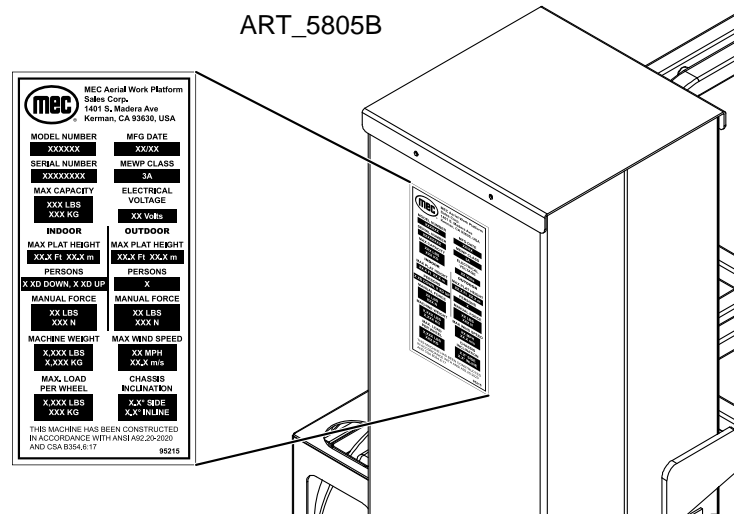


<p>1</p> <p>MMAE16 mec</p> <p>95731 Qty. - 2</p>	<p>2</p> <p>WARNING</p> <p>INDOOR - 1 PERSON 500 LBS (227 KG) 0 MPH (0 KPH) 45 LBS (200 N) 500 LBS (227 KG) 70% HEIGHT 5555</p> <p>OUTDOOR 1 PERSON 20 MPH (10 KPH) 45 LBS (200 N) 500 LBS (227 KG)</p> <p>95835 Qty. - 2</p>	<p>3</p> <p>44795 Qty. - 1</p>	<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>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>09310034</p> <p>43910 Qty. - 1</p>	<p>10</p> <p>9311015</p> <p>41635 Qty. - 4</p>
<p>11</p> <p>9311013</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>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 compressed air will cause death, burns or blindness.</p> <p>Keep all open flames and sparks away. Wear personal protective equipment, including face shield, gloves and long sleeve shirt.</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>94110146</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"> 1. The entity transferring possession has done so based on all available information regarding where, when and how this machine will be used and operated. 2. 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</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 / 46 kg. The batteries must weigh a minimum of 200 lbs / 91 kg.</p> <p>44844</p> <p>44844 Qty. - 1</p>	<p>18</p> <p>WARNING</p> <p>DO NOT POWERWASH OR SPRAY ELECTRONIC COMPONENTS OR CONNECTORS. MOISTURE MAY CAUSE DAMAGE AND/OR ERRATIC OPERATION</p> <p>90732</p> <p>90732 Qty. - 1</p>	<p>19</p> <p>WARNING</p> <p>MAXIMUM TIE-DOWN ANGLE 30°</p> <p>94362</p> <p>94362 Qty. - 4</p>	<p>20</p> <p>9910</p> <p>9910 Qty. - 2</p>
<p>21</p> <p>91850 Qty. - 1</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</p> <p>95837 Qty. - 2</p>	<p>23</p> <p>All-Electric</p> <p>95626 Qty. - 2</p>	<p>24</p> <p>WARNING</p> <p>RELEASE BRAKES BEFORE TOWING TO PREVENT DAMAGE TO DRIVE SYSTEM</p> <p>42534</p> <p>42534 Qty. - 1</p>	<p>25</p> <p>9314015</p> <p>41640 Qty. - 1</p>
<p>26</p> <p>94115 Qty. - 1</p>	<p>27</p> <p>WARNING</p> <p>41649 Qty. - 1</p>	<p>28</p> <p>⚠ DANGER</p> <p>Tip-over Hazard</p> <p>For safety reasons, unit is not to be used on slopes. Death or serious injury could occur.</p> <p>1. Lower 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) Most 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 in the city, 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 indoors.

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.

Notes



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.



MEC Aerial Work Platforms

1401 S. Madera Avenue, Kerman, CA 93630 USA

Toll Free: 1-877-632-5438

Phone: 1-559-842-1500

Fax: 1-559-842-1520

info@MECawp.com

www.MECawp.com