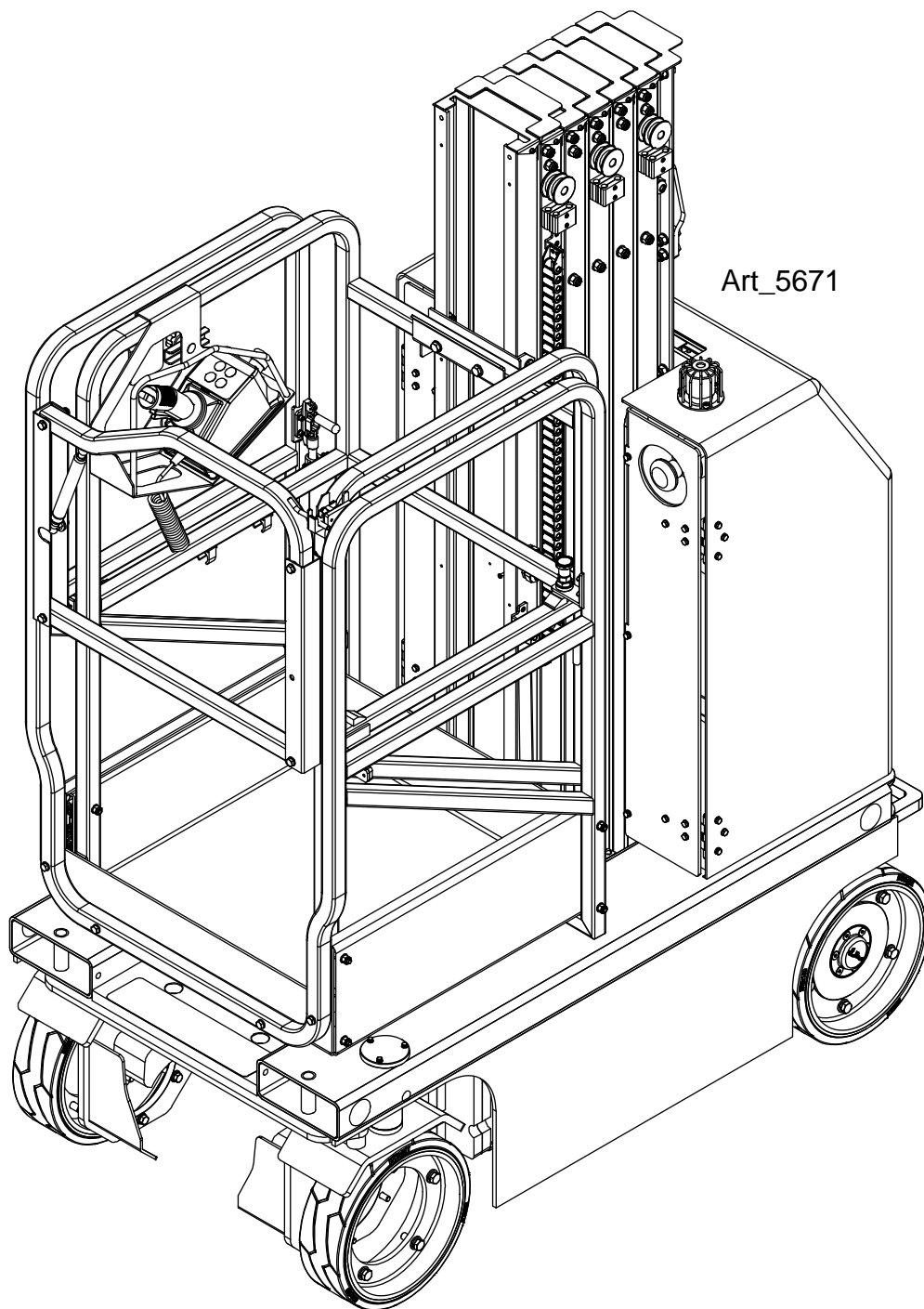




Operator's Manual

Mast Series



MME20 Serial Number Range 17200000 - Up
MME25 Serial Number Range 17300000 - Up

Part # 95567
February 2023

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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.



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

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

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

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

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



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Safety

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

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

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

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



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

Safety Alert Symbols & Fall Protection

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



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



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



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



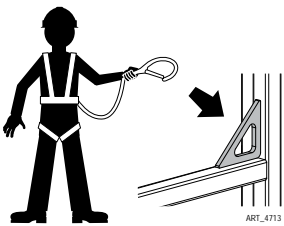
YELLOW without alert symbol and the word CAUTION – Indicates a potentially hazardous situation which, if not avoided, may result in property damage.



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

Fall Protection

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



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

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

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

Specifications

		MME20		MME25	
Height, Working Maximum*	Indoor	26 ft	8.0 m	31 ft	9.5 m
	Outdoor	22 ft	6.8 m	26 ft	8.0 m
Height, Platform Maximum	Indoor	20 ft	6.0 m	25 ft	7.5 m
	Outdoor	16 ft	4.8 m	20 ft	6.0 m
Height - Stowed		78.35 in	1.99 m	78.35 in	1.99 m
Width		30 in	0.76 m	31.50 in	0.80 m
Length		54.7 in	1.39 m	56.7 in	1.44 m
Platform Dimensions - Retracted Platform Length x Width		29.5x28.5 in	0.75x0.72 m	29.5x28.5 in	0.75x0.72 m
Platform Dimensions - Extended Platform Length x Width		50.5x28.5 in	1.28x0.72 m	50.5x28.5 in	1.28x0.72 m
Maximum Load Capacity		350 lbs	159 kg	350 lbs	159 kg
Rated Persons	Indoor	1		1	
	Outdoor	1		1	
Maximum Wind Speed	Indoor	0 mph	0 m/s	0 mph	0 m/s
	Outdoor	28 mph	12.5 m/s	28 mph	12.5 m/s
Wheelbase		44 in	1.12 m	44 in	1.12 m
Turning Radius	Outside	61 in	1.55 m	62.2 in	1.58 m
	Inside	0 in	0 m	0 in	0 m
Ground Clearance		2.36 in	6 cm	2.36 in	6 cm
Ground clearance Pothole guards deployed		0.55 in	1.4 cm	0.55 in	1.4 cm
Weight **		2,740 lbs	1,243 kg	3,310 lbs	1,501 kg
Power Source		2x12V 115Ah		2x12V 115Ah	
Controls		Proportional		Proportional	
AC Outlet In Platform		Standard		Standard	
Maximum Hydraulic Pressure (Functions)		2,610 psi	180 bar	2,610 psi	180 bar
System Voltage		24V		24V	
Driving Wheels		12.7x3.9 in	323x100 mm	12.7x3.9 in	323x100 mm
Airborne Noise Emissions		<70 dB; Maximum sound level at normal operating workstations (A-weighted)			
Vibration Value Does Not Exceed		2.5 m/s²		2.5 m/s²	
Maximum Slope Rating Stowed Position - Fore/Aft		25%		25%	
Maximum Side Slope Rating Stowed position		10%		10%	
		Note: Slope rating is subject to ground conditions and adequate traction.			
Maximum Working Slope		1.5° side-to-side, 3.0° in-line			
Drive speeds					
Stowed, Maximum		2.5 mph	4.0 km/h	2.5 mph	4.0 km/h
Platform Raised, Maximum		0.7 mph	1.1 km/h	0.7 mph	1.1 km/h
Floor Loading Information					
Tire Load, Maximum		937 lbs	425 kg	1,102 lbs	500 kg
Tire Contact Pressure - Max Load		115 psi / 8.1 kg/cm²	793.8 k Pa	149 psi / 10.5 kg/cm²	1028.0 kPa
Occupied Floor Pressure		235 psf / 1,150 kg/m²	11.27 kPa	267 psf / 1,304 kg/m²	12.8 kPa
Meets requirements of ANSI A92.20-2020 and CSA B354.6-2019.					
Floor loading information is approximate and does not incorporate different option configurations.					
It should be used only with adequate safety factors.					
*Working Height adds 6 feet (2 m) to platform height.					
**Weight may increase with certain options.					

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-start Inspection.
 3. Always perform function tests prior to use.
 4. Inspect the workplace.
 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.

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 material of the safety sign.

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 1000kV	45 ft	13.72 m



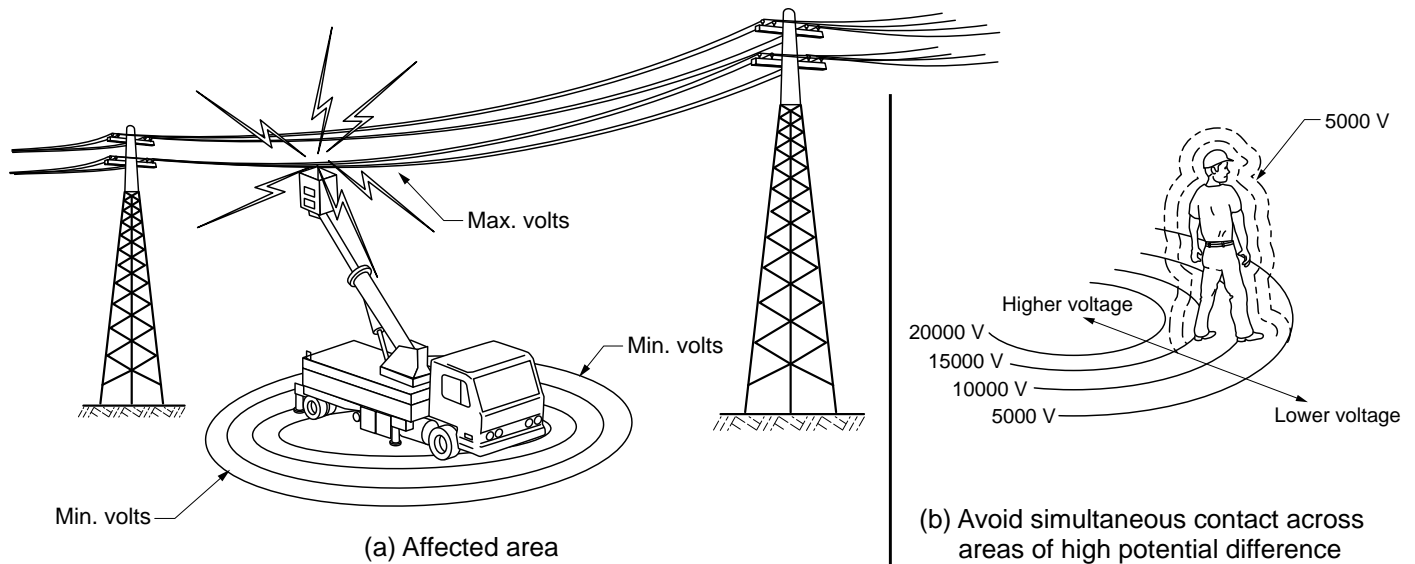
Art_5670A

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.

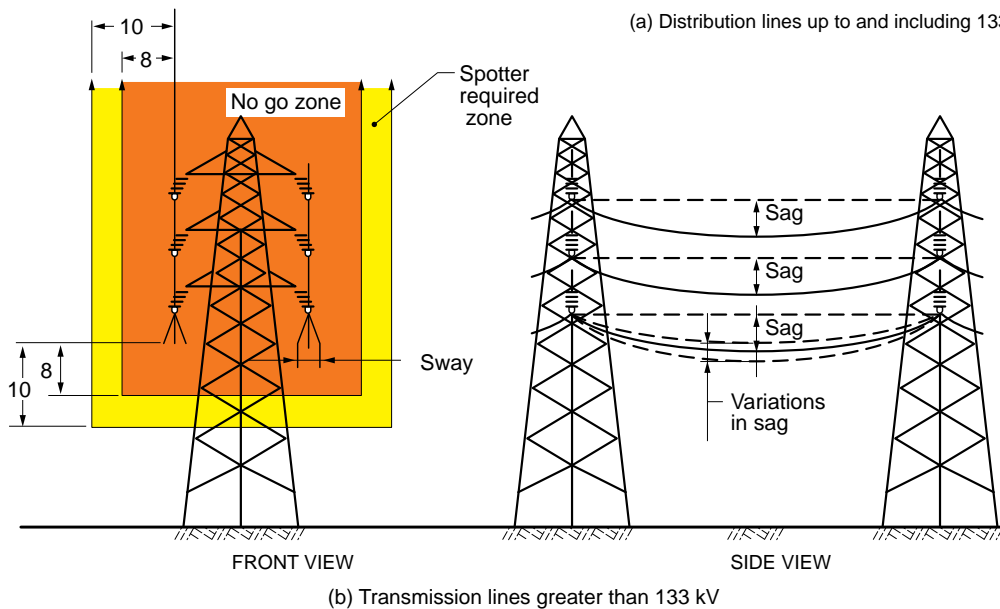
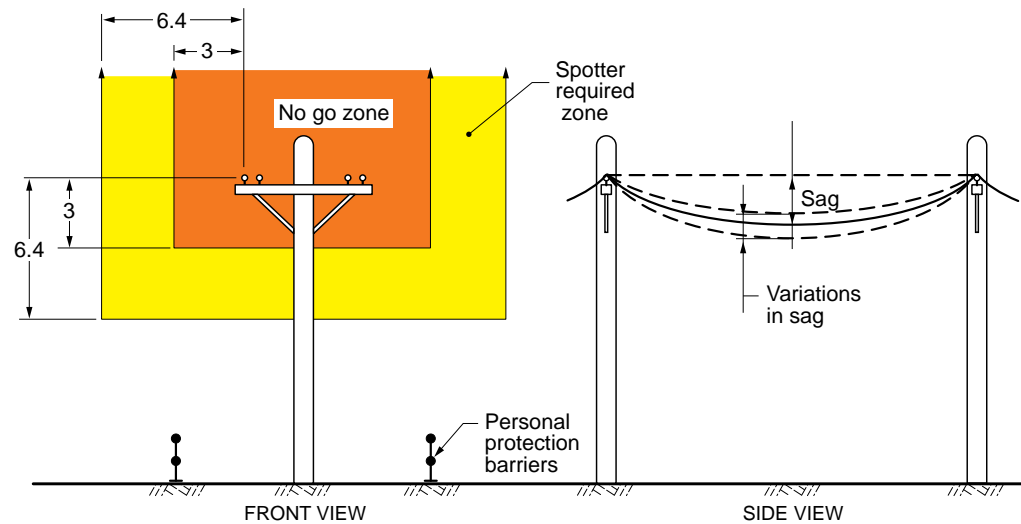
Do not use the machine as a ground for welding.

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



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

Occupant, equipment and materials must not exceed the maximum platform capacity or the maximum capacity of the platform extension.

Maximum Capacity		
Model	Load	Occupants
MME20 / MME25	350 lbs / 159 kg	1

Warning! Do not drive, elevate, or lower unless the extension deck is retracted.

Work Area Safety

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

Do not drive over 0.7 mph (1.1 km/h) with the platform raised.

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

If the tilt alarm sounds:

Lower the platform. Move the machine to a firm, level surface. If the tilt alarm sounds when the platform is raised, use extreme caution to lower the platform.

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.

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



Art_5670B



Art_5670C

Maximum Allowable Manual Force	45 lbs / 200 N
---------------------------------------	----------------

Do not use the machine as a crane.

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

Do not push the machine or other objects with the platform.

Do not contact adjacent structures with the platform.

Do not alter or disable the limit switches.

Do not tie the platform to adjacent structures.

Do not place loads outside the platform perimeter.

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, and lug standard parts are properly tightened.

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 use batteries that weigh less than the original equipment. Batteries are used as counterweight and are critical to machine stability. Each battery must weigh 72 lbs / 32.7 kg.

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.

Crushing Hazard

Keep hands and limbs away from a descending platform.

Keep good observation while operating the machine from the ground control box.

Maintain safe distance between 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.

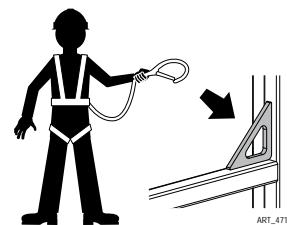
Model	Maximum Slope Fore/Aft Stowed Position	Maximum Side Slope Rating Stowed Position
MME20 / MME25	25%	10%

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

Fall Hazard

The guard rail system provides fall protection.

If required by local, state or employer rules, the occupant 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.



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.

Keep the platform floor clear of debris. Close the entry gate before operating.

Do not enter or exit the platform unless the machine is in the stowed position.



Art_5670E

Collision Hazard

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



Art_5670F

Take extra care when driving with the platform elevated.

Check the work area for overhead obstructions or other possible hazards. Maintain good observation during operation.

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



Art_5670G

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

Observe and use color-coded direction arrows on the platform controls and platform decal plate for drive and steer functions.

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.

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.

Component Damage Hazard

Do not use any battery or charger greater than 24V.

Do not use the machine as a ground for welding.

Explosion and Fire Hazard

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-start Inspection of the machine and test all functions before each work shift. Immediately tag and remove from service a damaged or malfunctioning machine.

Be sure all maintenance has been performed as specified in this manual

Be sure all decals are in place and legible.

Be sure the manuals are complete, legible and in the storage container located in the platform.

Bodily Injury Hazard

Do not operate the machine with a hydraulic oil or air leak. An air leak or hydraulic leak can penetrate and/or burn skin.

Improper contact with components under any cover will cause serious injury. Only trained maintenance personnel should access compartments. Access by the operator is only advised when performing a pre-start Inspection. All compartments must remain closed and secured during operation.

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.



ART_5651

Explosion Hazard

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

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

**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 counterweight and are critical to machine stability. Each battery must weigh 72 lbs / 32.7 kg.

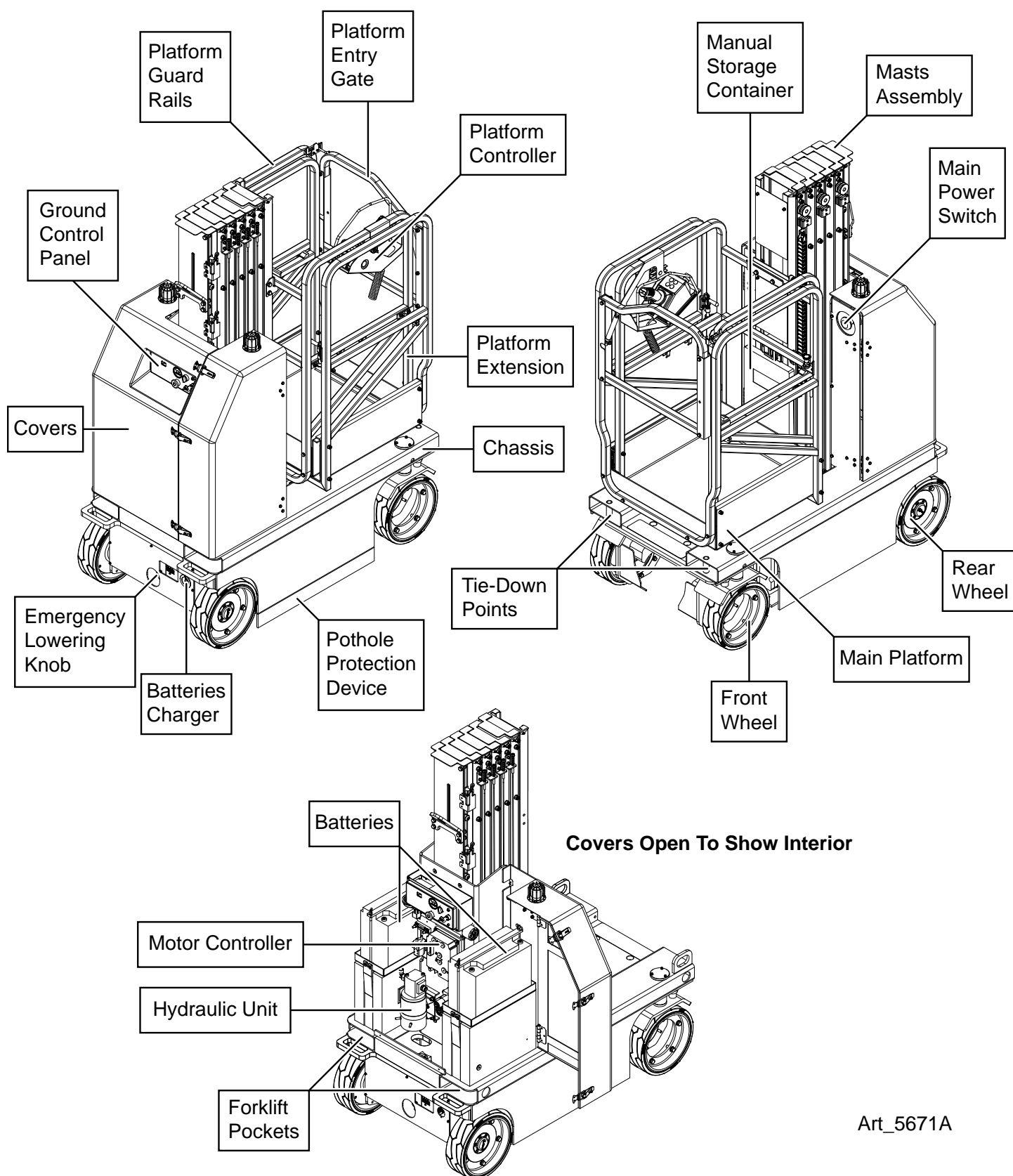
Lifting Hazard

Use the appropriate number of people and proper lifting techniques when lifting batteries.

Lockout after Each Use

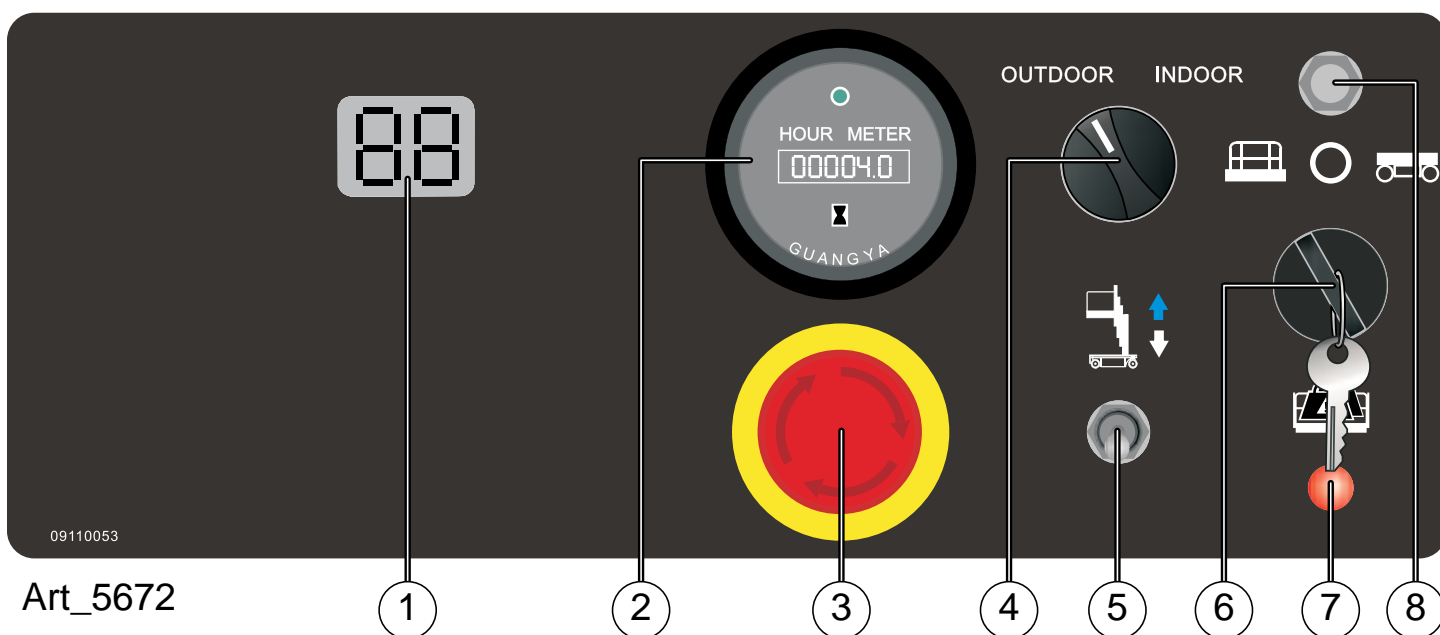
1. Select a safe parking location - firm level surface, clear of obstruction and traffic.
2. Lower the platform.
3. Turn the key switch to the off position and remove the key to secure from unauthorized use.
4. Charge the batteries.

Component Locations



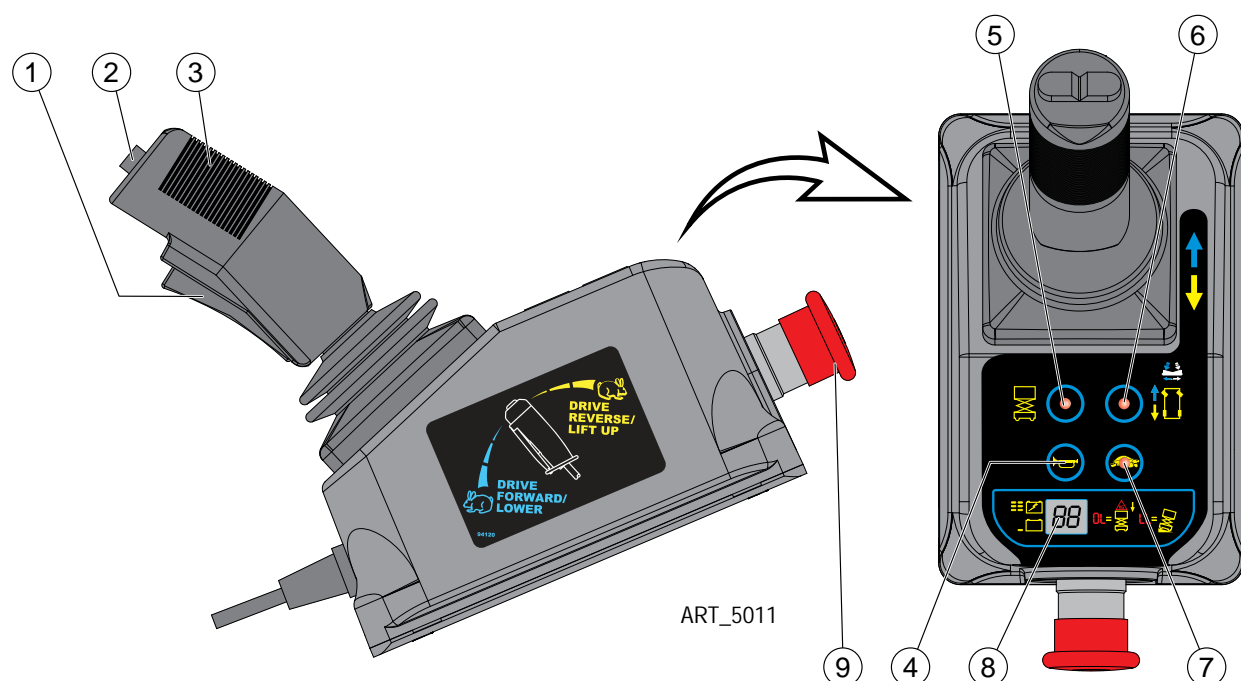
Art_5671A

Lower Control Panel



Control		Description	
1	LED	Diagnostic displays codes and battery charge indicator.	
2	Hour Meter	The hour meter displays the number of hours the machine has operated.	
3	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.	
4	Indoor/Outdoor Switch	INDOOR	Select to allow unrestricted height when indoors.
		OUTDOOR	Select to limit the maximum height when outdoors.
5	Platform Up / Down Switch	With the Key Switch in the BASE position, move this switch up to lift the platform or down to lower the platform.	
6	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.
7	Overload Indicator Light	Light on indicates when platform is overloaded.	
8	Circuit Breaker	When the current was overloaded, the circuit breaker will protect the circuit.	

Upper Control Panel



ART_5011

Control		Description
1	Function Enable Switch	Squeeze the Function Enable Switch to enable LIFT & DRIVE & STEER functions from Control Handle.
2	Steer Switch	Using your thumb press the thumb rocker switch in either direction to activate STEER Left or Right function.
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 select the LIFT function.
6	Drive Select	Press this button to select the DRIVE function.
7	Drive Speed Select	Press this button to activate the slow or fast drive function. 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 the button clockwise 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.

Pre-start 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-start Inspection. Know and understand the pre-start 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-start Inspection and routine maintenance.

The pre-start 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-start 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-start 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 Report

	Be sure that the operator's manual are complete, legible and in the storage container located in the platform.
	Be sure that all decals are legible and in place. See Decals section.
	Check for hydraulic oil leaks and proper oil level. Add oil if needed. (See page 31)
	For flooded type batteries check for battery fluid leaks and proper fluid level. Add distilled water if needed. Note: 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
	Hydraulic hoses, fittings, cylinders and manifolds
	Battery pack and connections
	Drive motors
	Rollers and slide blocks on masts
	Tires and wheels
	Lifting chains and idler wheels
	Mast and mast braces
	Limit switches, alarms and horn
	Nuts, bolts and other fasteners
	Platform entry gate and guard rail
	Alarms and beacons
	Platform extension
	Platform Control Panel
	Pothole guard
	Wire

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 right place and properly tightened.

NEVER perform work or inspection on the machine with the platform elevated without first supporting the platform with either a forklift or a crane. Alternatively, use a 2"x4" or recommended a 4"x4" a piece of wood to support the mast section that is attached to the platform.



See page 30 for instructions.

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 risk assessment of the planned work.
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 risk assessment 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
- 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.

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 the ground red Emergency Stop button out to the on position. Pull out the platform 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



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 actuated by the control. 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.

1. Turn the key switch to off or platform position.
2. Move up and hold the platform up / down switch.
 - **Result:** No function should operate.
3. Turn the key switch to ground control position.
4. Move up and hold the platform up / down switch.
 - **Result:** The platform should raise.
5. Move down and hold the platform up / down switch.
 - **Result:** The platform should lower to end. The descent alarm should sound while the platform is lowering.

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

Test the Emergency Lowering

1. Activate the up function and raise the platform approximately 24 in / 60 cm.
2. Pull the emergency lowering knob.
 - **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 the red Emergency Stop button out 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 yellow arrow, then in the direction indicated by the blue arrow.
 - **Result:** No function 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 yellow 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 blue 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 towards the entry gate facing the steer end of the machine.

1. Press the drive function select switch. 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 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 in the direction indicated by the blue 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 arrow points on the control panel, then come to 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 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 arrow points on the control panel, then come to stop.

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

Test Elevated Drive Speed

1. Press the lift function select button. The indicator light should turn on. Press and hold the function enable switch. Raise the platform approximately 6 ft / 2 m from the ground.
 - **Result:** The pothole guards should deploy.
2. Press the drive function select button. The indicator light should turn on.
3. Press and hold the function enable switch on the control handle. Slowly move the control handle to the full drive position.
 - **Result:** The maximum achievable drive speed with the platform raised should not exceed 1 ft/s (30 cm/s).
 - **Result:** If the drive speed with the platform raised exceeds 0.98 ft/s (30 cm/s), 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. Place a 1 $\frac{1}{4}$ ×4 in / 3×10 cm or similar piece of wood under both wheels on one side and drive the

- machine up onto them.
3. Raise the platform at least 6 ft / 2 m.
 - **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 blocks.

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 5 ft / 1.5 m from the ground, the pothole guards should deploy.
2. Press on the pothole guards on one side, and then the other side.
 - **Result:** The pothole guards should not move.
3. Lower the platform.
 - **Result:** The pothole guards should return to the stowed position.
4. Place a 2x4 in / 5x10 cm or similar piece of wood under a pothole guard. Raise the platform.
 - **Result:** When the platform is raised approximately 6 ft / 2 m from the ground, the pothole alarm will sound at 180 beeps per minute, and the platform controls LED screen readout should display “58”.
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 yellow arrow on the control panel.
 - **Result:** The steer function should not work in either direction.
10. Lower the platform and remove the 2x4 in / 5x10 cm 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.
4. Always perform function tests prior to use.
5. **Only use the machine as it was intended.**

Fundamentals

This machine is a self-propelled hydraulic lift equipped with a work platform on the vertical mechanism. Vibrations emitted by these machines are not hazardous to an operator in the work platform. The machine can be used to position personnel with their tools and supplies at position above ground level and can be used to reach work areas located above and over machinery or equipment.

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

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. Pull the emergency lowering knob to lower the platform.

Operation from Ground

1. Turn the key switch to ground control.
2. Pull out both ground and platform red Emergency Stop buttons to the on position.
3. Be sure the battery pack is connected before operating the machine.

To Position Platform

1. Move the up/down switch according to the markings on the control panel.

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

Operation from Platform

1. Turn the key switch to platform control.
2. Pull out the ground and platform red Emergency Stop buttons to the on position.
3. Be sure the battery pack is connected 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. 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 and on the platform 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 select 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.

Note: When the platform is elevated, the drive speed button light is always on, indicating elevated drive speed.

Driving on a slope stowed

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

- Maximum slope rating, stowed position 25% Fore/Aft
- Maximum side slope rating, stowed position 10% side-to-side

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 / 1m long
- Tape measure

Lay the piece of wood on the slope.

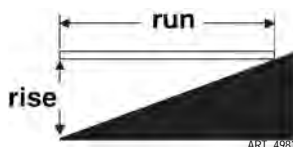
At the downhill end, lay the level on the top edge of the piece of wood and lift the end until the piece of wood is level.

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 = 11.8 ft
- Rise = 0.98 ft
- $0.98 \div 11.8 = 0.083 \times 100 = 8.3\%$



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.

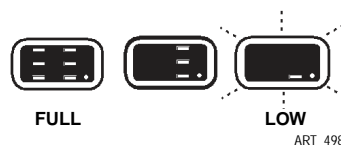
Operation from Ground with Controller

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. 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.

To Charge Battery

1. Be sure the battery is connected before charging.

Maintenance - Free Battery

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

Standard Battery

1. Remove the battery vent caps and check the battery acid level. If necessary, add only enough distilled water to cover the plates. Do not overfill prior to the charge cycle.
2. Replace the battery vent caps.
3. Connect the battery charger to a grounded AC circuit.
4. The charger will indicate when the battery is fully charged.
5. Check the battery acid level when the charging cycle is complete. Replenish with distilled water to the bottom of the fill tube. Do not overfill.

Dry Battery Filling and Charging Instructions

1. Remove the battery vent caps and permanently remove the plastic seal from the battery vent openings.
2. Fill each cell with battery acid (electrolyte) until the level is sufficient to cover the plates.

Do not fill to the maximum level until the battery charge cycle is complete. Overfilling can cause the battery acid to overflow during charging. Neutralize battery acid spills with baking soda and water.

3. Install the battery vent caps.
4. Charge the battery.
5. Check the battery acid level when the charging cycle is complete. Replenish with distilled water to the bottom of the fill tube. Do not overfill.

Brake Release Instructions

Observe and Obey:

- Common sense and 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 red Emergency Stop button on both the ground and platform controls to the on position.
3. Press and hold lift switch to “down” position in ground control, meanwhile turn on the key switch to the Ground position. The brake will be released after Alarm alerts.
4. If you want to apply the brakes, just turn off the key switch in “ground” position.
5. Push the red Emergency stop button on both the ground and platform controls to the off position.

When the machine is towed, do not exceed 2.5 mph / 4.0 km/h.

Transport and Lifting Instructions

Securing to Truck or Trailer for Transit

Always chock the machine wheels in preparation for transport.

Retract and secure the extension deck.

Turn the key switch to the off position and remove the key before transporting.

Inspect the entire machine for loose or unsecured items.

Use the tie-down points on the chassis for anchoring down to the transport surface.

Use a minimum of four chains or straps. Use chains or straps of ample load capacity.

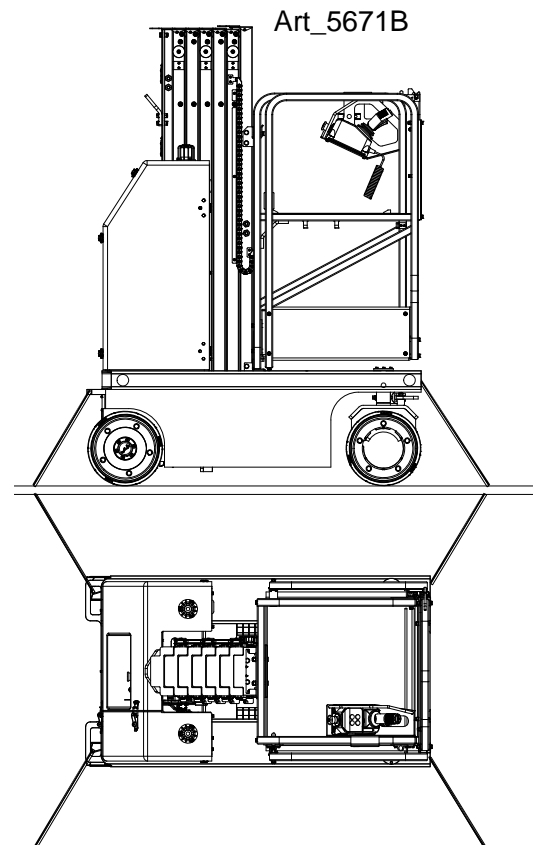
Lifting the Machine with a Forklift

Be sure the extension deck, 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.

Use the forklift pockets located at the rear of the machine. Position the forklift forks in position with the forklift pockets.

Drive forward to the full extent of the forks. 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.



NOTICE

Lifting the machine from the side can result in component damage.

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.

Crane Lifting Instructions

Only qualified riggers should rig and lift the machine.



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

Fully lower the platform. Be sure the extension deck, control box and component trays are secure. Remove all loose items on the machine.

Make sure the platform and chassis E-stops are depressed.

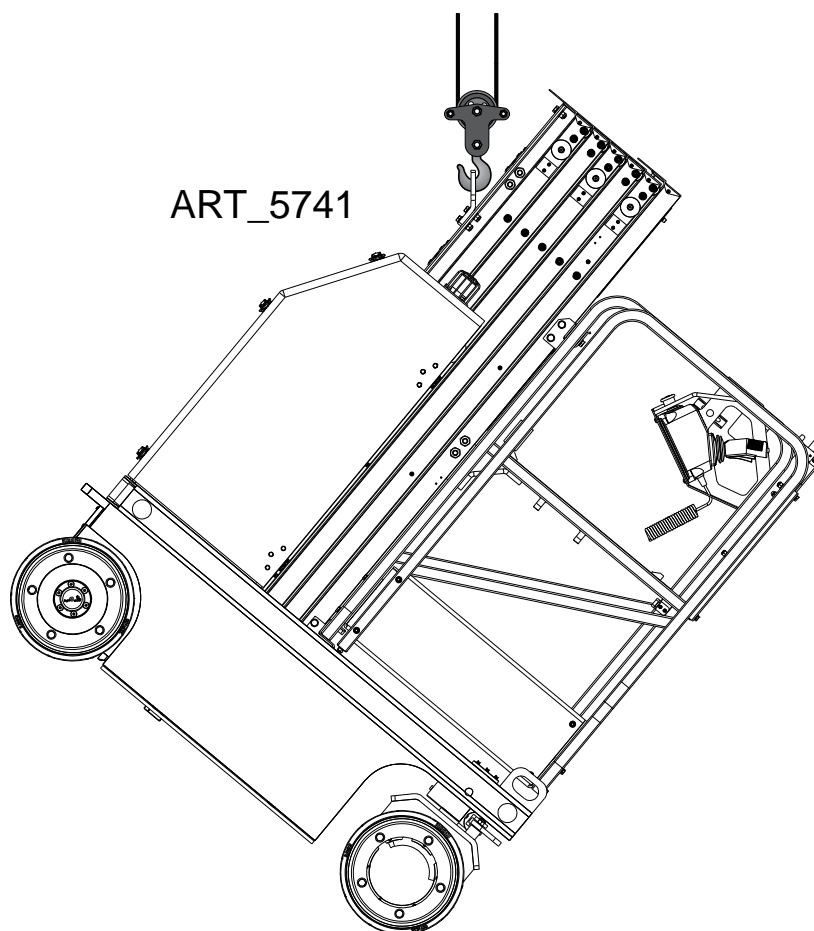
Use the lifting eye mounted on the rear mast column.

Make sure the mast is fully lowered.

Inspect the entire machine and remove any loose or unsecured items.

Adjust the rigging to prevent damage to the machine.

Lift the machine slowly to prevent rocking.



Maintenance Safety

**WARNING**

Make sure the chock is in place during maintenance!

**WARNING**

When the work platform of a Mast Series needs to be raised for routine servicing purposes, a captive chock shall be used to enable the extending structure to be held in the required position to prevent the work platform from falling!

NEVER perform work or inspection on the machine with the platform elevated without first supporting the platform with either a forklift or a crane. Alternatively, use a 2"x4" or recommended a 4"x4" piece of wood to support the mast section that is attached to the platform.



Hydraulic Reservoir

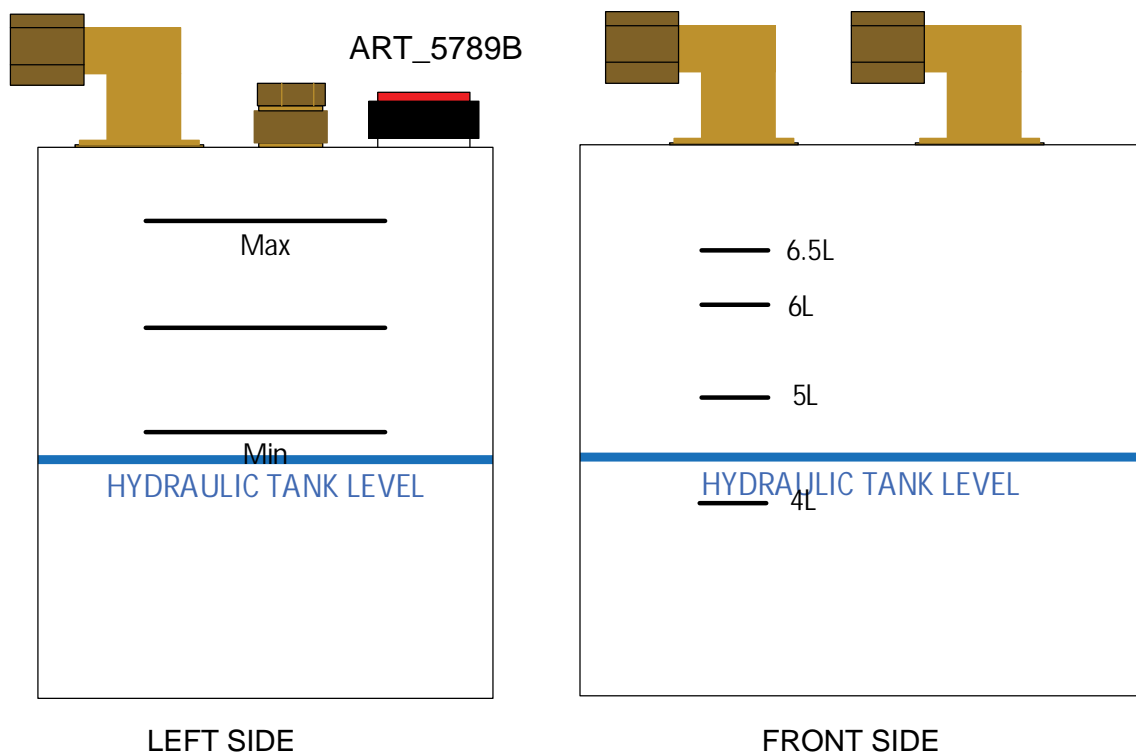
Support the mast in the elevated position (refer to page 30 for maintenance safety).

With the mast properly supported at the correct height, remove the hydraulic tank cover plate and inspect hydraulic oil level.



ART_5789A

Hydraulic Level should be between the 4L and 5L marks or 1" below the MIN Line with the platform raised and supported as shown.



Maintenance Inspection Report

MME Series 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 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		
ELECTRICAL:			
GFCI operates correctly	Q		
Wire harnesses good condition, secure	A		
Comm cable no damage, secure	A		
BASE:			
Fasteners tight	Q		
Cover panels secure	Q		
Welds	A		

	Q/A	Y/N/O	R
WHEELS:			
Tire damage	Q		
Lug nuts (Wheel mounting) torqued correctly	Q		
King Pins lubed	A		
COMPONENT AREA:			
Hydraulic - no leaks	Q		
Hydraulic tank, correct level	Q		
Hoses not damaged - Fittings tight	Q		
Valve manifold secure, no leaks	Q		
Power unit secure, no leaks	Q		
Batteries properly filled and cables clean	Q		
Emergency stop, cuts power/operation	Q		
Battery switch cuts battery feed	Q		
Cover Doors secure, locks operate correctly	Q		
Hydraulic tank, oil clean	A		
Replace Hydraulic Filter	A		
Clean or replace tank breather filter	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		
Steering pressure relief, set correctly	A		
Lift pressure relief, set correctly	A		

Frequent Inspection Checklist



This checklist must be used at 3-month intervals or every 150 hours of machine use, whichever occurs first. Failure to do so could result in death or serious injury.

Frequent Maintenance Inspections should be conducted by qualified service technicians only. Photocopy this page for reuse. Keep inspections records up to date. Record and report all discrepancies to your supervisor. See the Service & Parts Manual for specific instructions.

Model Number _____ **Serial Number** _____ **Hour Meter Reading** _____

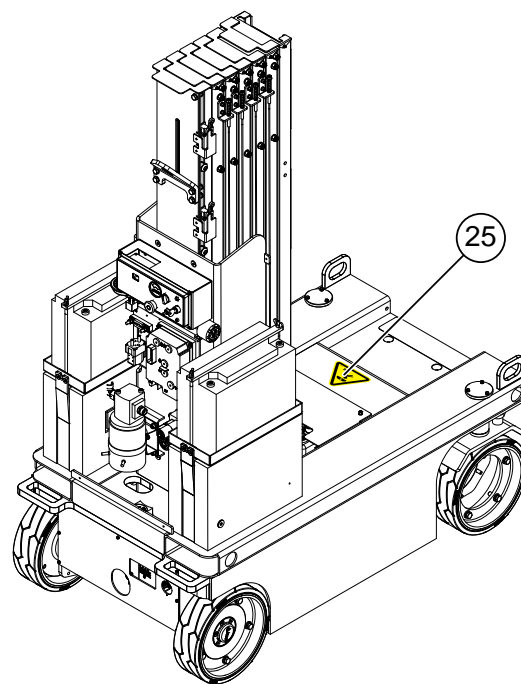
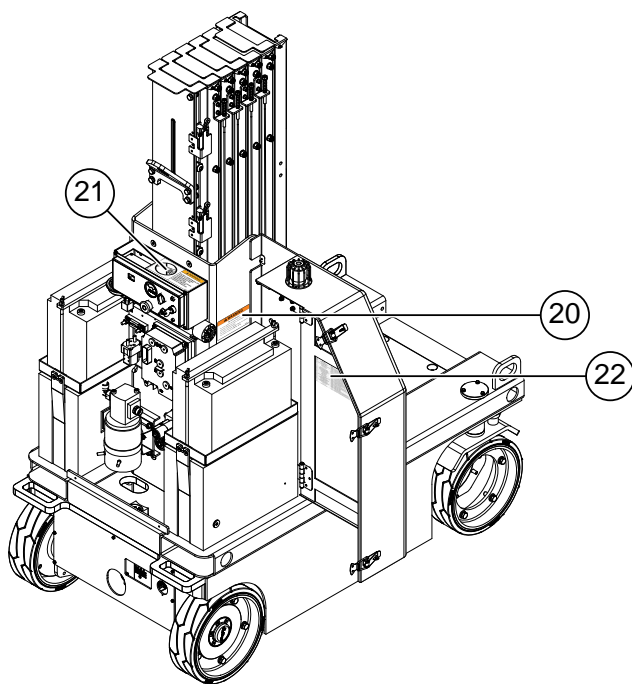
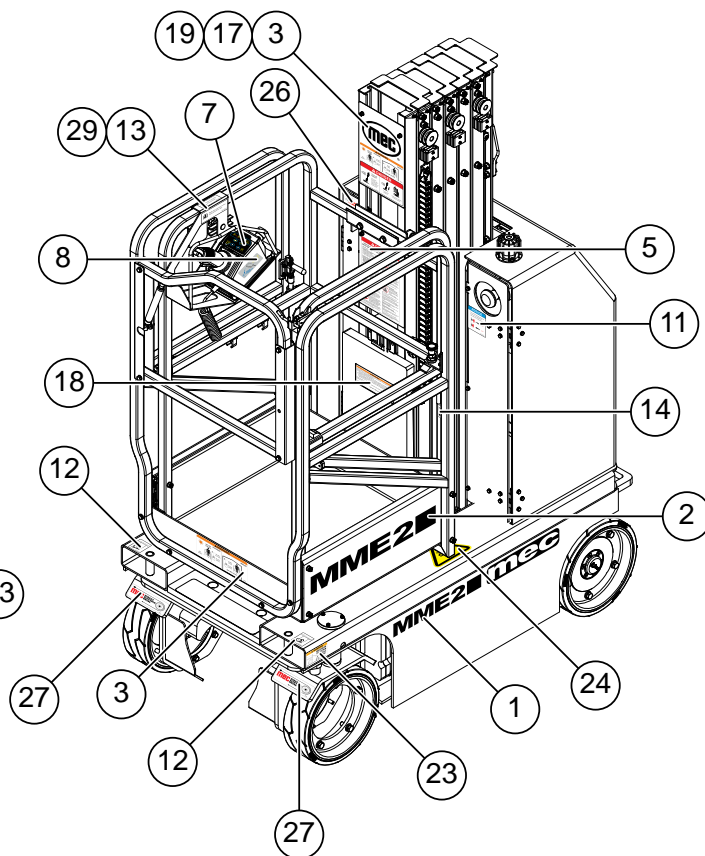
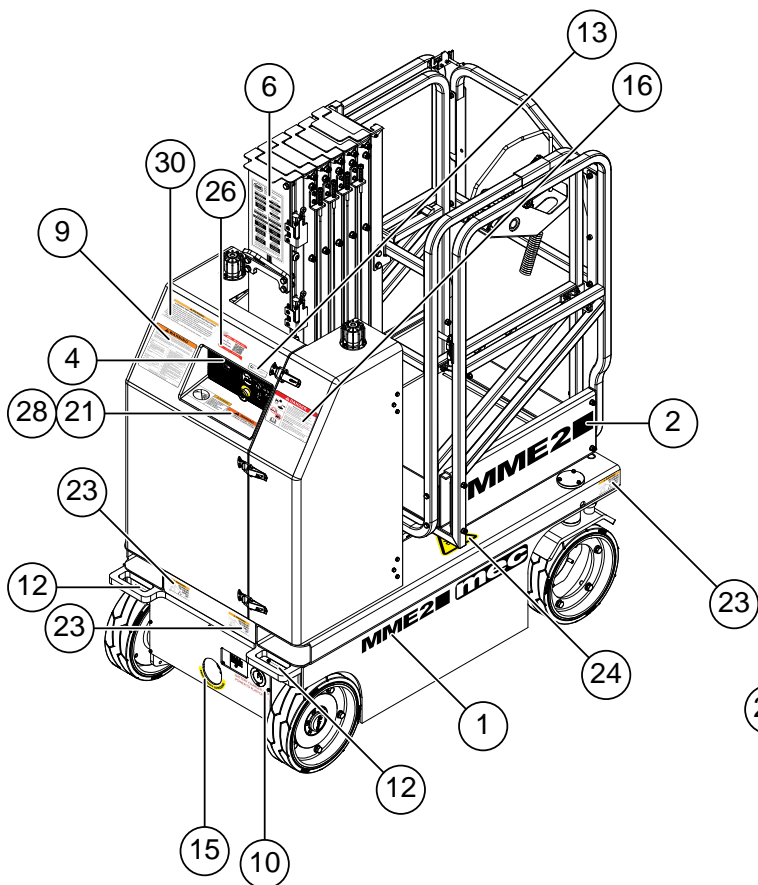
Initial	Description
	Perform all checks listed on Pre-Start Inspection.
	Grease the Steering Yokes
	Inspect the condition of hydraulic fluid in the reservoir. Oil should be a clear and amber in color.
	Batteries
	Electrical wiring
	Tires and wheels
	Emergency stop
	Key switch
	Horn (if equipped)
	Drive brakes
	Drive speed - Raised

Additional maintenance requirements for severe conditions

Check around the hydraulic tank for oil; oil that has collected around the hydraulic tank may indicate a leak.

Date _____ **Inspected By** _____

Decal Locations

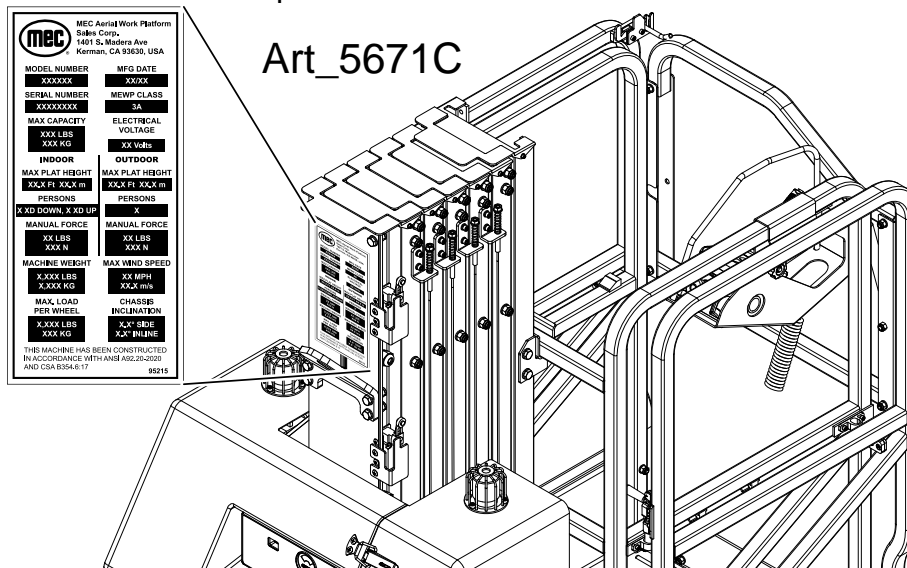


<p>1</p> <p>MME20 mec</p> <p>95520 Qty. - 2</p>	<p>2</p> <p>MME25 mec</p> <p>95521 Qty. - 2</p>	<p>3</p> <p>MME20 MME25</p> <p>95517 Qty. - 2</p> <p>95518 Qty. - 2</p>	<p>4</p> <p>95529 Qty. - 2</p>
<p>5</p> <p>44338 Qty. - 1</p>	<p>6</p> <p>43885 Qty. - 1</p>	<p>7</p> <p>95215 Qty. - 1</p> <p>41632 Qty. - 1</p>	<p>8</p> <p>94528 Qty. - 1</p>
<p>9</p> <p>41649 Qty. - 1</p>	<p>10</p> <p>BATTERY CHARGER AND POWER TO PLATFORM</p> <p>94659 Qty. - 1</p>	<p>11</p> <p>41637 Qty. - 1</p>	<p>12</p> <p>41635 Qty. - 4</p>
<p>13</p> <p>41648 Qty. - 1</p>	<p>14</p> <p>95819 Qty. - 1</p>	<p>15</p> <p>41641 Qty. - 1</p>	<p>16</p> <p>44485 Qty. - 1</p>
<p>17</p> <p>94115 Qty. - 1</p>	<p>18</p> <p>44844 Qty. - 1</p>	<p>19</p> <p>90732 Qty. - 2</p>	<p>20</p> <p>43879 Qty. - 1</p>
<p>21</p> <p>9910 Qty. - 2</p>	<p>22</p> <p>91850 Qty. - 1</p>	<p>23</p> <p>95601 Qty. - 2</p>	<p>24</p> <p>94423 Qty. - 2</p>
<p>25</p> <p>42534 Qty. - 1</p>	<p>26</p> <p>94640 Qty. - 1</p>	<p>27</p> <p>96306 Qty. - 1</p>	<p>28</p> <p>94640 Qty. - 1</p>
<p>29</p> <p>94640 Qty. - 1</p>	<p>30</p> <p>94640 Qty. - 1</p>	<p>31</p> <p>94640 Qty. - 1</p>	<p>32</p> <p>94640 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

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.



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