

Speed Level™ Sigma Lift - ES Models

Serial Number 11700001 - up

91941 June 2016



Operator's Manual CE/Australian Specifications

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—Specifications—

	269	84ES	308	4ES			
Working Height*	32 ft*	10.0 m*	36 ft*	11.0 m*			
Platform Height	26 ft	7.9 m	30 ft	9.0 m			
Stowed Height Rails Up	107 in	2.72 m	105 in	2.67 m			
Rails Folded Down	72 in	1.83 m	70 in	1.78 m			
Maximum Occupants 0 m/s wind		5		5			
45 km/h (12.5 m/s) wind		5		5			
On Slide-Out Extension		2	N	T/A			
Lift Capacity	1700 lbs	770 kg	1500 lbs	680 kg			
Slide-Out Deck Capacity	700 lbs	320 kg	N	T/A			
Platform Dimensions Length (inside rails)	12 ft 2 in	3.71 m	14 ft	4.27 m			
Length (platform extended)	16 ft 2 in	4.93 m	N	I/A			
Platform Width (inside rails)	72 in	1.83 m	72 in	1.83 m			
Guardrail Height	43.5 in	1.1 m	43.5 in	1.1 m			
Toeboard Height	6 in	15 cm	6 in	15 cm			
Overall Length	13 ft 2 in	4.0 m	14 ft 6 in	4.4 m			
Overall Width		84 in	2.13 m				
Wheel Base		100 in	2.54 m				
Wheel Track		72 in	1.83 m				
Turning Radius Inside		8 ft	2.44 m				
Outside		16 ft 8 in	5.08 m				
Ground Clearance		10 in	25 cm				
Machine Weight** (Unloaded)(Approximate)	8400 lb**	3810 kg**	8700 lb**	3946 kg**			
Drive System (Proportional)							
Drive Speed - Platform elevated		04 mph	065 km/h max†				
Drive Speed - Platform Lowered		0-4 mph	0-6.4 km/h				
Lift/Lower Speeds (Approximate)		_	c/40 sec				
Gradeability	40% 22°						
Ground Pressure/Wheel (Maximum)	98 psi	6.9 kg/cm ²	101 psi	7.1 kg/cm ²			
Wheel Load	3065 lb	1390 kg	3175 lb	1440 kg			
Wind Speed (Maximum)	28	mph	45 km/h	(12.5 m/s)			
Tire Size - Standard	26 x 12D / 380NHS						
Tire Pressure	45 psi 3.1 bar						
	Foan	n-filled tires are stand	ard in Europe and Au	stralia,			
			North America				
Wheel Lug Nut Torque		75-85 ft/lb	102-115 Nm				
Hydraulic Pressure Main System		2800 psi	193 bar				
Lift System		2800 psi	193 bar				
Steering System		2000 psi	138 bar				
Hydraulic Fluid Capacity		23 gallon	87 liters				
Electric Motor		=	r): 3600 rpm				
Power Source Voltage	48 volts DC						
Batteries	Eight 6-volt DC 370 amp-hour industrial deep cycle batteries						
Battery Charger Input Output	120 Volt AC, 50.60 Hz, 18 Amp - 240 Volt AC, 50.60 Hz, 9 Amp 48 Volt DC, 32 Amp, 1500 W, Timed Shutoff						
Maximum Vibration		does not exceed 2.5 m/sec ² at operator's position					
Sound Pressure At Workstation	80 dB(A)						
Ambient Operating Range	-30° C minimum; 50° C maximum						
Operating Inclination	Manual and self-leveling, side/side to 14°, fore/aft to 10°						
Brakes		-	heel Multi-disc				
Meets requirements of CE EN280:2013 and Australian Standa	ard AS1418 10(Int)			need Level™ is a			

Meets requirements of CE EN280:2013 and Australian Standard AS1418.10(Int)--2004 Part 10: Elevated Work Platforms. Speed Level[™] is a trademark of MEC. *Working Height adds 6 feet (2 m) to platform height. **Weight may increase with certain options or country standards. †Drive speed while elevated is inversely proportional to platform height; the higher the platform is, the lower the maximum elevated drive speed. The machine is driveable at full height. Total vibration value to which the hand/arm system is subjected does not exceed 2.5 m/sec².

Highest root mean square value of weighted acceleration to which the whole body is subjected does not exceed 0.5 m/sec².

Introduction

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



The Operator's Manual must be read and understood prior to operating your MEC Aerial Work Platform. The user/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 on 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 operator(s) 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 should 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 user and all operating personnel.

Use of this machine in Europe must comply with CE standard EN280:2001 + A1 and applicable government regulations. Use in Australia must comply with Australian Standard AS1418.10(Int)--2004 Part 10.

Use only MEC-approved replacements parts in the repair and maintenance of this machine.

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 Pre-Start Inspection, Routine Maintenance, and Functions Test, have inspected the workplace for hazards, and have learned the operating procedures for this machine.

Failure to read, understand and follow all safety rules, warnings, and instructions will unnecessarily expose you and others to dangerous situations. 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 be safe and reliable. They are intended to position personnel, along with their necessary tools and materials, to overhead work locations. The owner/user/operator of the machine should not accept responsibility for the operation of the machine unless properly trained.

Never perform work or inspection on the machine with the platform elevated without first supporting the elevating assembly (see *Support the Platform* on page 26).

Safety Alert Symbols

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



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



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



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

CAUTION

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

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.

ALWAYS wear an approved fall protection properly attached to a designated anchorage point when driving or operating the machine. Attach only one fall restraint to each anchorage point.



Electrocution Hazard



ELECTROCUTION HAZARD!!! THIS MACHINE IS NOT INSULATED!

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

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

Observe Minimum Safe Approach Distance.





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

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

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

Personnel in the platform:

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

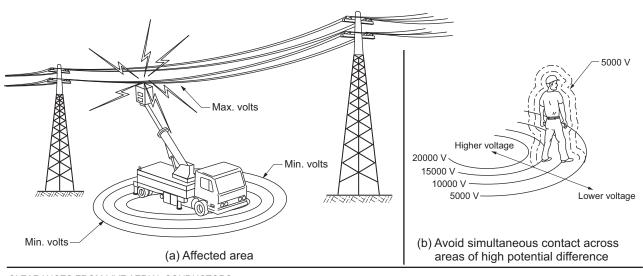
Personnel on the ground:

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

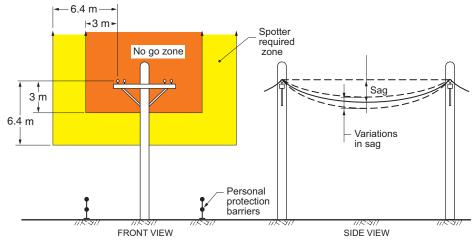
Do not operate the machine during electrical storms or lightning.

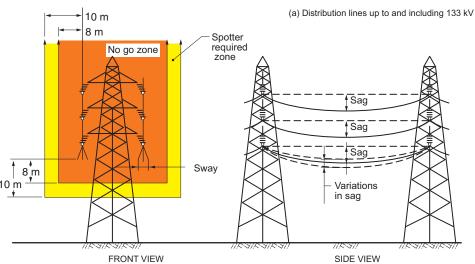
DO NOT use the machine as a ground for welding unless properly equipped with a weld line to platform option.

Minimum Save Approach Distance



CLEARANCES FROM LIVE AERIAL CONDUCTORS





(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

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Tip-over Hazards





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







DO NOT ELEVATE IN WINDY CONDITIONS



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

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

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

STOP if the alarm sounds and the red light illuminates when the platform is raised. Use extreme caution to lower the platform.

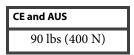
Driving: DO NOT drive the machine on a slope that exceeds the maximum uphill or downhill slope rating. Slope rating applies to machines in the stowed position.

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

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

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

Maximum Allowable Side Force



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

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

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

NEVER transport tools and materials unless they are firmly secured. Secure all tools and loose materials.

NEVER alter or disable any machine components.

NEVER replace any part of the machine with items of different weight or specification.

NEVER modify or alter the work platform without written permission from MEC.

NEVER place ladders or scaffolds in the platform or against any part of the machine.

NEVER use the machine on a moving or mobile surface or vehicle.

Ensure that all tires are in good condition and lug nuts are properly torqued.

Fall Hazards





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

DO NOT exit the platform when elevated

Keep the platform floor clear of debris.

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

Ensure that all gates are properly closed and secured before operating the machine.

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

Collision Hazards









Check path before moving for equipment, materials or other obstructions.

Check path before moving for overhead obstructions.

Check path before moving for crushing hazards when holding the platform rail.

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

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

Stunt driving and horseplay are PROHIBITTED.

Watch for personnel and obstructions below the platform when lowering the platform.

Additional Safety Hazards

Explosion and Fire Hazards

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

Damaged Machine Hazards

Conduct a thorough pre-start inspection of the machine and test all functions before each work shift to check for damage, malfunction and unauthorized modification. Tag and remove a damaged, malfunctioning or modified machine from service. DO NOT use a damaged, malfunctioning or modified machine.

Routine maintenance must be performed by the operator before each work shift. Scheduled maintenance must be performed by a qualified service technician at scheduled intervals. Tag and remove from service any machine that has not had scheduled preventative maintenance performed.

Check that all safety and instructional decals are in place and undamaged.

Check that the operator's, safety and responsibilities manuals are present in the storage container located in the platform. All manuals must be complete, undamaged and readable.

Bodily Injury Hazards

DO NOT operate the machine when there is a hydraulic fluid or air leak. Hydraulic fluid or air under pressure can penetrate and/or burn skin.

All compartments must remain closed and secure during machine operation. Improper contact with components under any cover will cause serious injury. Only trained maintenance personnel should access compartments. The operator should only access a compartment when performing pre-operation inspection.

Weld Line to Platform Safety (if equipped)

Read, understand and follow all warnings and instructions provided with the welding power unit.

DO NOT connect weld leads or cables unless the welding power unit is turned off at the platform controls.

DO NOT operate unless the weld cables are properly connected.

Battery Safety

Burn Hazards

Batteries contain acid. Always wear protective clothing and eye wear when working with batteries.

Avoid spilling or contacting battery acid. Neutralize battery acid spills with baking soda and water.

Explosion Hazard

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

Electrocution Hazard

Avoid contact with electrical terminals.

Workplace Inspection

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

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

Be sure the lift is the correct machine for the job.

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

Workplace Inspection

Check the workplace for all possible hazards, including but not limited to:

- drop-offs or holes, including those concealed by water, ice, mud, etc.
- sloped, unstable or slippery surfaces
- bumps, surface obstructions and debris
- · overhead obstructions and electrical conductors
- · other objects or equipment
- hazardous locations and atmospheres
- inadequate surface and support to withstand all load forces imposed by the machine
- wind and weather conditions
- the presence of unauthorized personnel
- other possible unsafe conditions

Functions Test

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

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

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

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

Operating Instructions

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

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

This machine may be operated by trained and authorized personnel only. If multiple operators use this machine, all must be qualified and authorized to use it. New operators must perform a Pre-Start Inspection (see page 21) and Functions Test prior to operating the machine.

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

Prestart

- Perform Prestart Inspection (see page 21).
- Check base control EMERGENCY STOP switch turn clockwise to reset.



ART_3253

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





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



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

Note: If machine fails to operate, check the Diagnostic LED on the motor control processor inside the control module – see "Component Locations" on page 31.

Base Controls Operation and Test

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



Select BASE Operation

• Turn the selector switch to BASE.

Emergency Stop



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



ART_3251

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

Elevate Platform

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

Test Operation

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

Lower Platform

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

Test Operation

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

Platform Controls Operation and Test

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





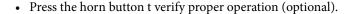
Lower Control Box: Turn the selector switch to PLATFORM.

• Turn the selector switch to PLATFORM.

Operate from Platform



- Enter the platform and secure the entry.
- Turn the platform selector switch to the ON position.





Emergency Stop



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



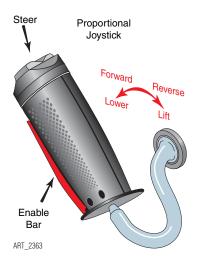
Activation of the EMERGENCY STOP switch will apply brakes immediately. This may cause unexpected platform movement as the machine comes to a sudden stop. Brace yourself and secure objects on the platform during operation of machine.

Platform Overload Indicator



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

Control Lever Operation



- Function speed is proportional and is controlled by the movement of the control lever.
- The further it is moved forward, the faster the speed will be.
- The control lever returns to the neutral (center) position when released.



Do not elevate platform unless guardrails are installed and secure – see "Fold Down Platform Railings" on page 18.

If the platform fails to lower DO NOT attempt to climb down the elevating assembly. Serious injury may result – see "Emergency Systems" on page 17.

Elevate Platform



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

Test Operation

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

Lower Platform



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

Test Operation

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



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

IMPORTANT—Always check front steer wheel direction before driving.

Steering



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

Test Operation

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



Drive Torque (Speed Control)

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

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

Drive Forward



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

Test Operation

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

Drive Reverse

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

Test Operation

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

Brake

• For parking, the brake is automatically applied when the control lever is positioned in the neutral (center) position.





Leveling Procedure

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

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



Do Not drive elevated across uneven terrain (see Tip-over Hazards on page 6).

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



Auto Level

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



Manual Level: Front to Rear

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



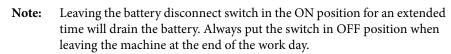
Manual Level: Side to Side

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

Shutdown Procedure



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



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



Deck Extension -- 2684 models only

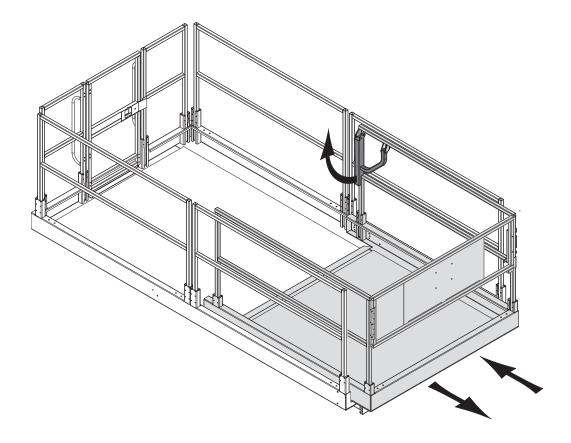
The deck will extend in intervals of 8 inches (20 cm) throughout the entire 48 inch (1.2m) length of the deck extension. The extension handle hangs from the top rail at the left side of the deck extension. The handle is used to push or pull the deck extension to the desired position.

To extend or retract the deck:

- Lift the handle to release the spring-loaded pin from the locked position.
- Push to extend or pull to retract the deck extension.
- Lower the handle enough for the spring-loaded pin to engage and continue to push or pull the deck extension until the pin locks into position.

Do not stand on the deck extension while extending or retracting it.

Check that the deck extension is locked in place before using the machine or transporting the machine by vehicle.



Emergency Systems



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

Do not attempt to climb down elevating assembly.

Emergency Stop

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

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

Selector Switch set to PLATFORM

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

Selector Switch is set to BASE

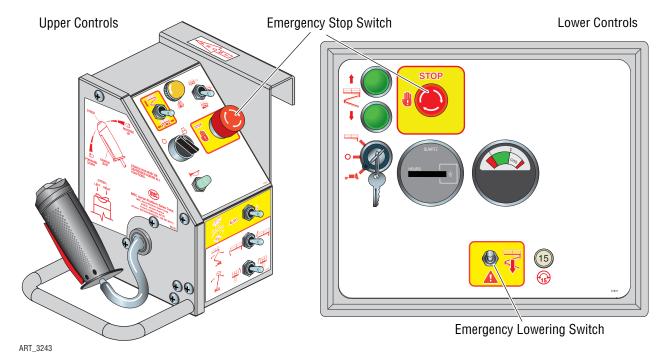
- The upper controls are locked out.
- The lower switch must be reset or the machine will not operate.
- The machine will operate from the lower controls if the upper controls switch is tripped.

Emergency Lowering

The Emergency Lowering System is used to lower the platform in case of power or valve failure. The Emergency Lowering switch will function if the EMERGENCY STOP switch is tripped.

To lower the platform, perform the following steps:

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



3084 Models

Fold Down Platform Railings

Open & Secure the Loading Gate

- Remove the 2 snap pins that hold the loading gate to the side guardrail.
- Swing the loading gate open
- Secure the gate to the side guardrail using one of the snap pins.
- Return the other snap pin to its place.

Release & Lower the Entry Rail

- Remove the 2 snap pins from the top corners of the entry guardrail.
- Remove the 2 snap pins from the base of the entry guardrail.
- Lower the entry guardrail to the platform floor.
- Return the snap pins to their places.

MI JIB

Release & Lower Left Side Rail

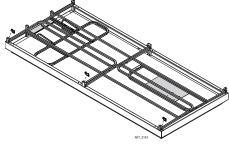
- Remove the 3 snap pins from the base the guardrail with the loading gate.
- Lower the guardrail and loading gate to the platform floor.
- Return the snap pins to their places.

Release & Lower Right Side

 Remove the 3 snap pins from the base of the right side guardrail.

Rail

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



To return the machine to normal operation mode:

- Lift all rails into their upright position, then push down to secure them in their sockets
- Install all spring pins and secure all gates
- Position the platform control box on the right side rail at the front of the platform.

DO NOT use the machine until all gates and guard rails are in position and properly secured.

Fold Down Rails (continued)

Open & Secure The Material Loading Gate

- Lift the upper Control Box off the Deck Extension Rail and place out of the way.
- Lift the gate latch and swing the Material Loading Gate open.
- Secure the gate to the side guardrail with the gate latch.

2 Lift & Lower The Deck Extension Rails

- Lift and lower the right-side deck extension rail.
- Lift and lower the left-side deck extension rail.

3 Lift & Lower The End Side Rails

- Lift and lower the left-side end rail.
- Lift and lower the right-side end rail.

4 Lift & Lower The Entry Rails

- Remove the corner caps that connect the rear side rails to the entry rails.
- Lift and lower the gate-side entry rail.
- Lift and lower the left-side entry rail.

5 Lift & Lower The Rear Side Rails

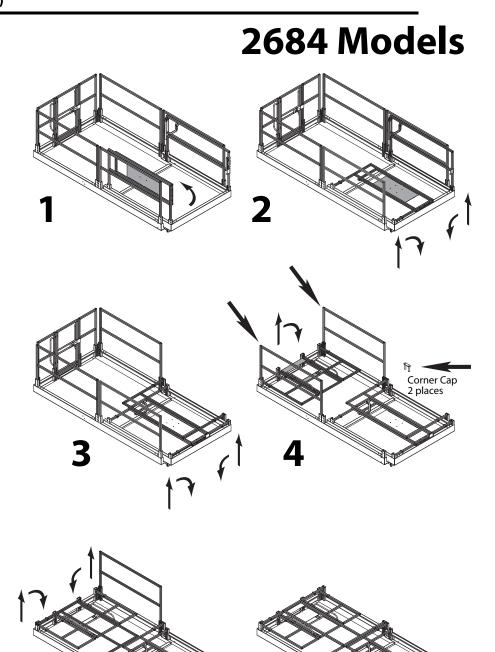
- Lift and lower the left rear side rail.
- Lift and lower the right rear side rail.

Guard rail fold-down is complete.

To return the machine to normal operation mode:

- Lift all rails into their upright position, then push down to secure them in their sockets
- Install all corner caps and secure all gates
- Position the platform control box on the right side rail at the front of the deck extension.

DO NOT use the machine until all gates and guard rails are in position and properly secured.



Machine Inspections

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

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

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

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

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

IMPORTANT— Properly dispose of all waste fluids, materials and used parts in accordance with national regulations.



Never perform service on the machine with the platform elevated without first blocking the elevating assembly (see Support the Platform on page 26).

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

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

Always clean the surrounding area before opening hydraulic systems.

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

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



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



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

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

Inspection and maintenance should be performed by qualified personnel familiar with the equipment. Fluid leaks under pressure may not always be visible. Check for pin hole leaks with a piece of cardboard, not your hand.

Pre-Start Inspection Checklist

The operator must conduct a thorough Pre-Start Inspection of the machine before each work shift – see "Machine Inspections" on page 20.

General Inspection Checklist

Initial	Description						
	_ Check that the operator's, safety, and responsibilities manuals are in the storage container located on the platform						
	Perform a visual inspection of all machine components. Look for missing parts, torn or loose hoses, hydraulic fluid leaks, torn or disconnected wires, damaged tires etc.						
	_ Check all structural components of the machine for cracked welds, corrosion and collision damage.						
	_ Check the security and condition of the lanyard attachment points.						
	Check all hoses and the cables for worn or chafed areas.						
	_ Check the platform rails and sliding mid-rail entry for damage or modification.						
	_ Check that all warning and instructional labels are legible and secure.						
	Check the tires for damage.						
	Check the tire pressure (not required for foam filled tires).						
	_ Check the lower limit switch for visual damage or loose or missing hardware.						
	All structural components, pins and fasteners are present and properly tightened.						
Flu	id Level Checklist						
	_ Check for fluid leaks.						
	_ Hydraulic fluid level (check with platform fully lowered).						
Sec	cure for operation						
	Secure all covers and panels. Perform Routine Maintenance as needed, then proceed to the Functions Test.						

DATE_____INSPECTED BY _____

Monthly Inspection Checklist



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

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

Model N	lumber Serial Number
Initial	Description
	Perform all checks listed on Prestart Inspection.
	Inspect the condition of hydraulic fluid in the reservoir. Oil should have a clear amber color.
	Check battery electrolyte level and connections.
	Check wheel lug nuts for proper torque (see Specifications).
	Check if tires are leaning in or out.
	Inspect all beams and pivot points for signs of wear and/or damage.
	Check the pin joints and retaining rings for security.
	Inspect the entire machine for signs of damage, broken welds, loose bolts, improper or makeshift repairs.
	Check that the platform does not drift down with a full load.
	Lubricate the king pins, steering cylinder pivot points, and tie rod ends (see Lubrication on page 27).
	Check all wire connections.
	Check that all adjustable flow valves are locked, check setting if any are not locked.
	Lubricate the boom gear (see <i>Lubrication</i> on page 27).

DATE_____INSPECTED BY _____

Quarterly Inspection Checklist



DATE_

INSPECTED BY _

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

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

	discrepancies to your supervisor.
Model N	lumber Serial Number
Initial	Description
	Perform all checks listed on Prestart/Monthly Inspection.
	Check the operation speeds to ensure they are within specified limits (see Specifications).
	Check the emergency lowering system.
	Clean and lubricate all push button switches with dry lubricant and ensure that the switches operate freely in all positions.
	Check the tightness of the platform frame and the linkage pins.
	Check the overall platform and guardrail component stability.
	Check the electrical mounting and hardware connections for security.
	Check the king pins for excessive play.
Add	ditional maintenance requirements for severe conditions
	Replace hydraulic filter element (under normal conditions replace every six [6] months).

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Annual Inspection Report

MEC Aerial Platform Sales Corp. 1401 S. Madera Avenue • Kerman, CA 93630 USA 877-632-5438 • 559-842-1500 • Fax: 559-842-1520

Date
Serial Number
Model Number
Date Of Last Inspection
Date Placed In Service

Customer
Street
City/State/Zip
Phone Number
Contact

Dealer
Street
City/State/Zip
Phone Number
Contact

- · Check each item listed below.
- Use proper Operator's, Service and Parts manual for specific information and settings.
- If an item is found to be "Unacceptable" make the necessary repairs and check the "Repaired" box.
- When all items are "Acceptable", the unit is ready for service.
- Please fax a copy to MEC or email to EMAIL ADDRESS

Key:	"Y"	Yes/Acceptable
	"N"	No/Unacceptable

"R" Repaired

"U" Unnecessary/Not Applicable

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

Signature/Mechanic:	Date:
Signature/Owner-User:	Date:

Maintenance

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

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

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

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



Never perform service on the machine with the platform elevated without first blocking the elevating assembly (see Support the Platform on page 26).

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

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

Always clean the surrounding area before opening hydraulic systems.

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

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



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



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

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

Inspection and maintenance should be performed by qualified personnel familiar with the equipment. Fluid leaks under pressure may not always be visible. Check for pin hole leaks with a piece of cardboard, not your hand.

Routine Maintenance

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

Charge Batteries See *Charge Batteries* on page 29

Pre-Start Inspection Perform routine maintenance as identified in the *Pre-Start Inspection Checklist* on page 21.

Scheduled Maintenance

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

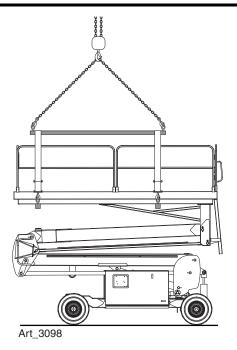
Machines that have been out of service for more than three months must receive the quarterly inspection before returning to service.

Support the Platform



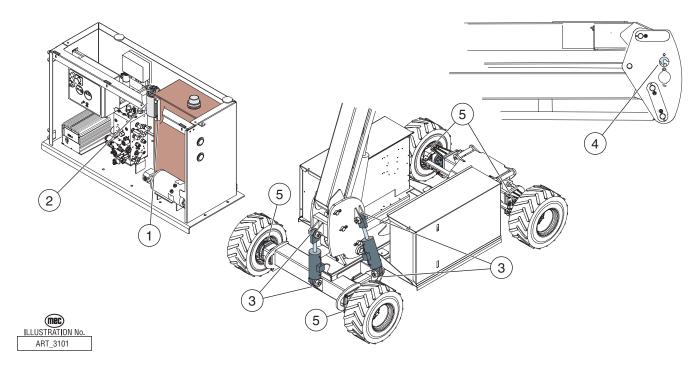
Never perform service on the machine with the platform elevated without first supporting the elevating assembly.

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



Lubrication

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



Lubrication

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

Battery Charger

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

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

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

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

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

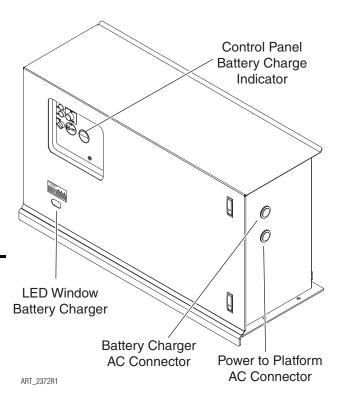


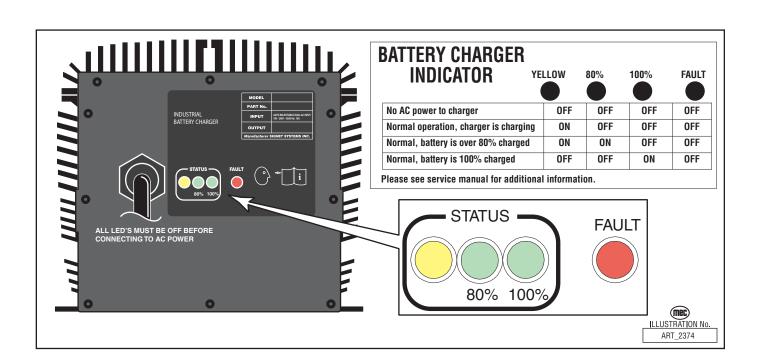
Lead-acid batteries generate explosive gases. Keep sparks and flame away from batteries.

No Smoking!

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

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





Charge Batteries

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

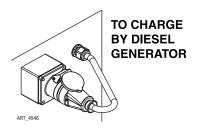
4 Red FAULT LED

- **ON:** Battery pack probably bad, weak, or a bad cell.
- 1 FLASH: Open or short circuit. Remove from service until problem is identified and corrected.
- 2 FLASH: Charger timed out. Battery pack probably bad, weak, or a bad cell. Unplug for 30 seconds, then plug in to start a new charge cycle.

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

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

Hybrid Generator Operation



These instructions are for use with the Hybrid Generator System using the Kipor KDE5000E generator. To charge the machine using this generator, the cord from the generator must be inserted into the charger receptacle as shown. These components are located on the right side of the Controls Module.

The generator may be operated two ways:

- •Through the Upper Control Box using the Generator Operation Switch
- •By starting the generator with the key switch located on generator

Normal hybrid operation is through the Upper Control Box toggle switch. When operated through the Upper Control Box, the generator has three starting modes:

- Automatic
- •Manual Automatic
- Manual

In all modes, the generator may be manual turned off by switching the Generator Operation Switch to the OFF position.

In all modes, the machine must be turned on to allow the control system to operate the generator. The generator can also be turned on at the generator itself by using the generator's key switch. From the key switch, the generator will only run in manual mode and must be manually turned off at the same key switch.

Automatic Mode

GENERATOR OPERATION



Set the left-hand Generator Operation Switch to AUTO to enable the generator system to operate automatically.

In Automatic Mode, the control system constantly checks the battery level of the machine and turns on the generator to charge the batteries when that level reaches a preset low battery condition.

Manual Automatic Mode

GENERATOR OPERATION

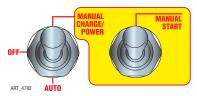


With the Generator Operation Switch still set to AUTO, the generator may be manually started if deemed necessary by the operator. Push the Generator Manual Start switch UP and hold it for 1 second.

Holding this switch for 1 second will start the generator, which will then follow the typical Automatic Mode function.

Manual Mode

GENERATOR OPERATION

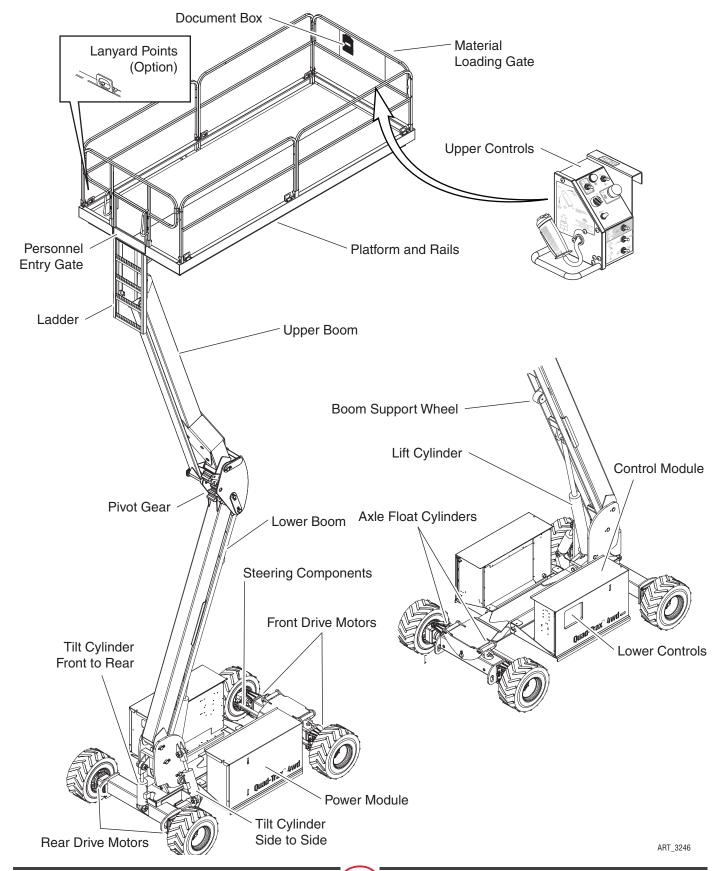


To bypass the automatic mode, set the Generator Operation Switch to MANUAL CHARGE/POWER, then push the Generator Manual Start switch UP. The generator will start instantly.

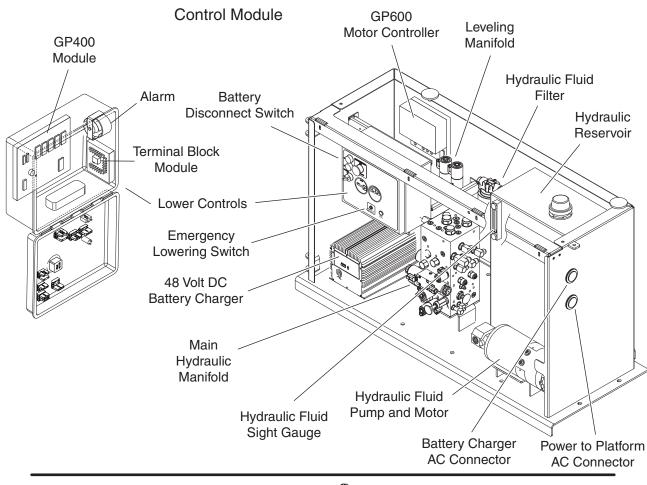
The generator should be left on Manual Mode only when operating the generator. Return the switch to the OFF position when the generator is not in use to prevent its hour meter from running continuously.

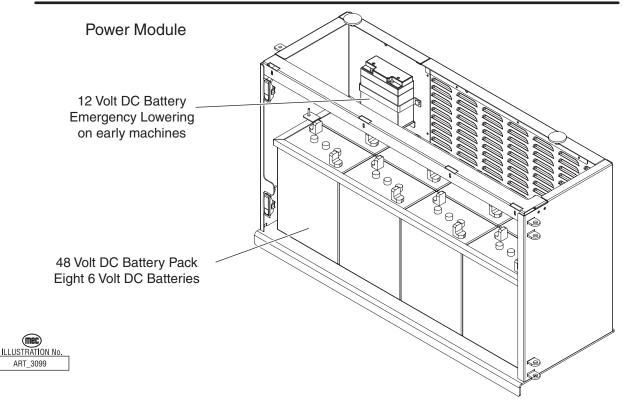
Component Locations

Full Machine

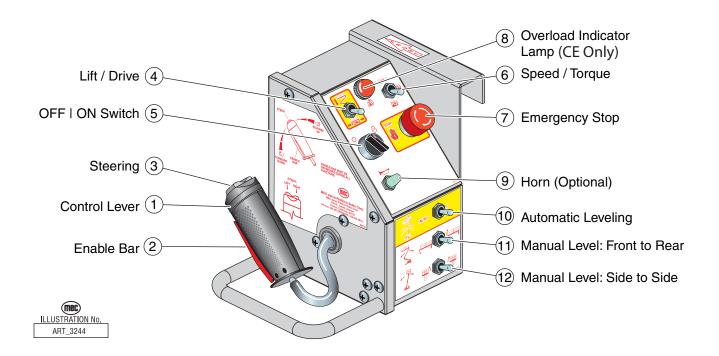


Modules



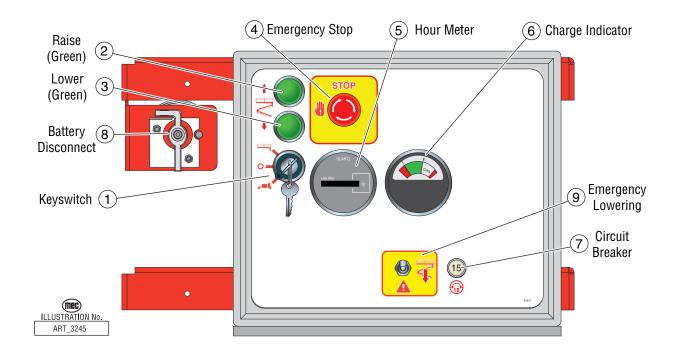


Upper Controls



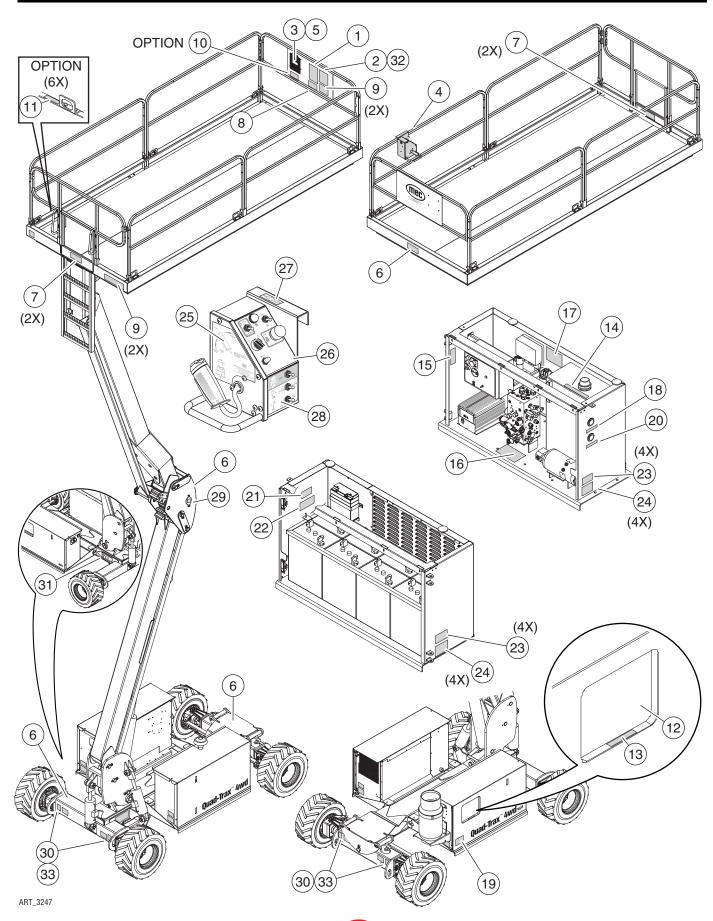
	CONTROL	DESCRIPTION		
1	Control Lever	DRIVE	Proportionally controls Forward and Reverse travel speed.	
		LIFT	Move toward operator to elevate platform. Lift speed increases proportional to the control lever movement Move away from operator to lower platform. Speed is fixed.	
2	Enable Bar	Squeeze to enable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

Lower Controls

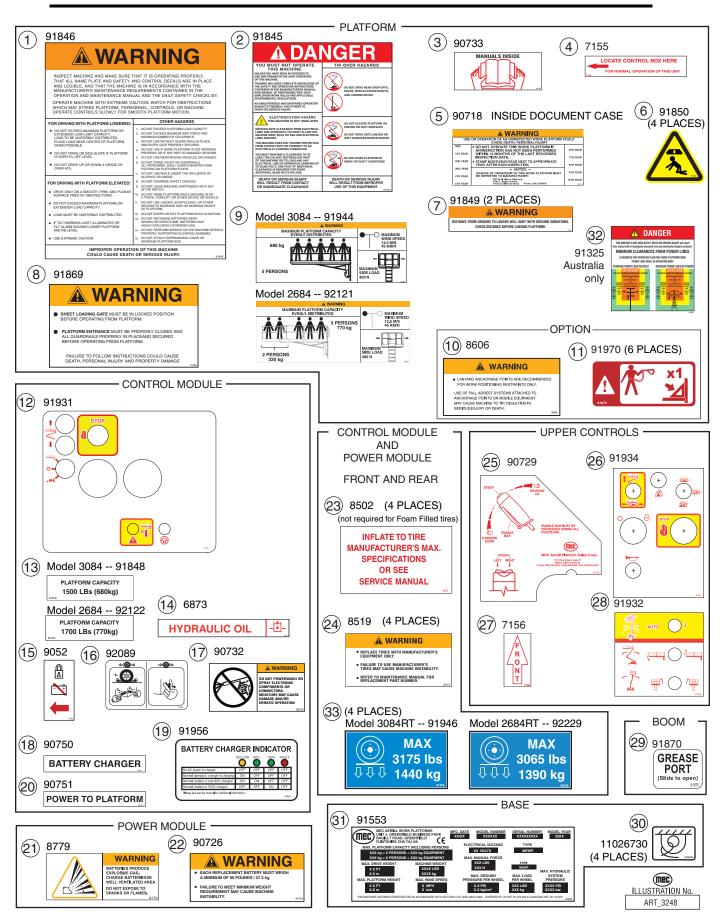


CONTROL		DESCRIPTION		
1	Selector Switch	PLATFORM	Select to operate from the platform control panel.	
		BASE	Select to operate from the base control panel.	
		OFF	Select to stop operation from either control panel.	
2	RAISE Button	Press and hold to elevate the platform. Release to stop elevation.		
3	LOWER Button	Press and hold to lower the platform. Release to stop lowering.		
4	EMERGENCY STOP Switch	Press to stop all machine functions. Turn <i>clockwise</i> to reset.		
5	Hour Meter	Indicates total elapsed time of machine operation.		
6	Charge Indicator	Indicates state of battery charge.		
7	Circuit Breaker	Trips when there is excessive electrical load. Push to reset.		
8	Battery Disconnect	Battery power supply. Turn OFF and padlock to secure machine from unauthorized use.		
9	EMERGENCY LOWERING Switch	Push and hold the toggle switch Down to fully lower the platform.		

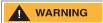
Decals



Decals (continued)



Troubleshooting

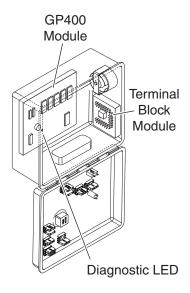


Should you experience erratic operation or notice any malfunction while operating this machine, discontinue use immediately.

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

Machine functions will not operate

Lower Controls

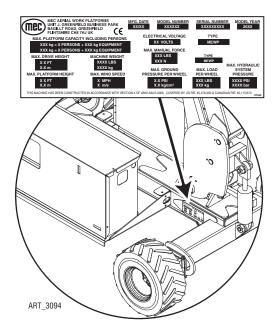


- Battery Disconnect Switch ON?
- Batteries fully charged?
- Function toggle switch or the enable switch not activated?
- Selector switch in proper position?
- Both EMERGENCY STOP switches reset?
- · Hydraulic fluid level low?
- Obvious fluid leak or damaged component?
- · Wires disconnected, broken,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

ART_3093

Serial Plate

Serial Plate Location



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

Serial Plate Item Information Defined

MFG DATE. Month / Year of manufacture

MODEL NUMBER. Identifies the machine.

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

MAX. WIND SPEED. The maximum safe wind speed at which the machine can be elevated.

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

MAX. ALLOWABLE MANUAL FORCE. The maximum safe force that the occupant can exert laterally on an object outside the platform.

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

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

TYPE. MEWP=Mobile Elevating Work Platform

MAX. LOAD PER WHEEL. The maximum safe weight applied to each wheel. Calculated with all available options installed.

Fw = 30% (Wm + Wc + Wopt)

MAX. GROUND PRESSURE PER WHEEL. The amount of pressure exerted on the surface at each wheel. Calculated with all available options installed.

Pmax = 30% (Wm + Wc + Wopt) / Contact Area

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

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

Transport and Lifting Instructions.

Safety Information



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

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

Loading

Free-wheel configuration for Winching or Towing.



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



RUNAWAY HAZARD!

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

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

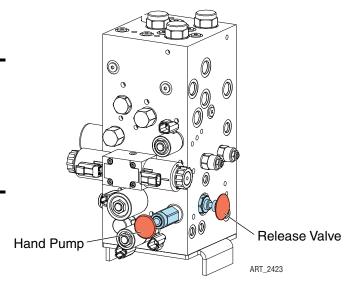
Disengage Brakes before Towing or Winching

- Chock the wheels.
- Push and hold the release valve.
- Using the hand pump on the manifold, pump valve until pressure is built and valve cannot be pumped.
- Machine is now ready for towing.

Engage Brakes before Driving

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

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



Driving or Winching onto or off of a Transport Vehicle



MEC does not recommend unassisted loading or unloading.

Always attach the machine to a winch when loading or unloading from a truck or trailer by driving. Read and understand all safety, control, and operating information found on the machine and in this manual before operating the machine.

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

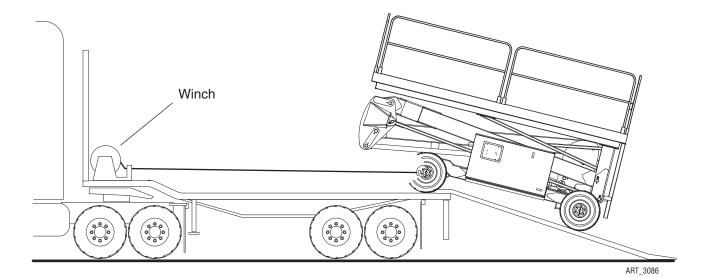
Driving

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

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

Winching

- Disengage brakes (see Disengage Brakes before Towing or Winching on page 39).
- Carefully operate the winch to lower the machine down the ramp.
- · Chock the wheels and engage the brakes.



Lifting and Tie Down Instructions



Only qualified riggers should rig and lift the machine.

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

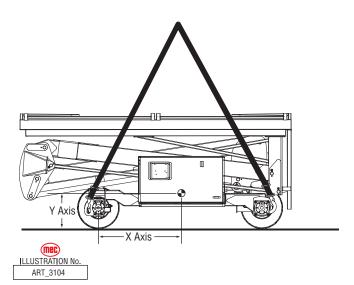
- Fully lower the platform. Be sure the module doors are closed and secure. Remove all loose items from the machine.
- Fold down the guardrails.
- Determine the center of gravity of the machine.
- Attach rigging to the designated lift points only.
- Adjust the rigging to prevent damage to the machine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

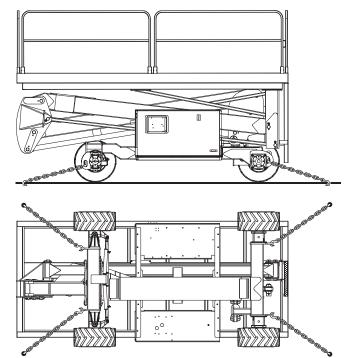
Securing to Truck or Trailer for Transport

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

Center of Gravity and Lifting Points

Center of Gravity	X Axis	Y Axis
3084	45.89 in. / 116.57cm	16.31 in. / 41.43 cm





Notes

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Notes



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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