



Serial Number 11800001 - up

91942 August 2009

Operator's Manual CE/Australian Specifications

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-Specifications—

	308	4RT
Working Height*	36 ft*	11.0 m*
Platform Height	30 ft	9.0 m
Stowed Height Rails Up	105 in	2.67 m
Rails Folded Down	70 in	1.78 m
Maximum Occupants 0 m/s wind		5
45 km/h (12.5 m/s) wind	1	5
Lift Capacity	1500 lbs	680 kg
Platform Dimensions Length (inside rails)	14 ft	4.27 m
Platform Width (inside rails)	72 in	1.83 m
Guardrail Height	43.5 in	1.1 m
Toeboard Height	6 in	15 cm
Overall Length	14 ft 6 in	4.4 m
Overall Width	84 in	2.13 m
Wheel Base	100 in	2.54 m
Wheel Track	72 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)	8100 lb**	3674 kg**
Drive System (Proportional)		
Drive Speed - Platform elevated	04 mph	06 km/h
Drive Speed - Platform lowered	0-3 mph	0-4.8 km/h
Lift/Lower Speeds (Approximate)	35 sec/40 sec	35 sec/40 sec
Gradeability	40%	22°
Ground Pressure/Wheel (Maximum)	94 psi	6.6 kg/cm ²
Wheel Load	2965 lb	1345 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
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
Engine	Kubota D905E, 20HP (14.9	kW), Diesel, Liquid Cooled
Leveling Side/Side	14	4°
Fore/Aft)°
Operating Inclination	Manual and self-leveling, sid	le/side to 14°, fore/aft to 10°
Brakes	Dual Rear Wh	eel Multi-disc
Meets requirements of CE and Australian Standard Speed Level [™] is a trademark of MEC. *Working Height adds 6 feet (2 m) to platform heig		Elevated Work Platforms.

**Weight may increase with certain options or country standards.

Introduction

This Operator's Manual has been designed to provide you, the customer, 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.

DANGER

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.

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



MEC Aerial Platform Work Platforms

1401 S. Madera Avenue Kerman, CA 93630 USA		
Phone:	1-800-387-4575 559-891-2488	
Fax:	559-891-2448	

www.mecAWP.com

Safety

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

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 service on the machine with the platform elevated without first blocking the boom assembly (see *Maintenance Safety* on page 27).

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

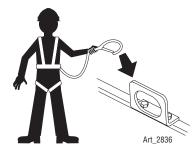
Fall Protection

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 restraint 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 Table 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.

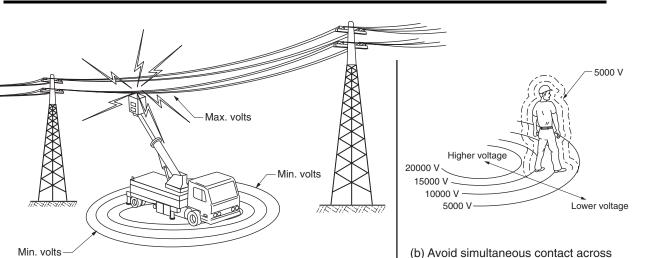
Do not operate the machine during electrical storms or lightning.

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





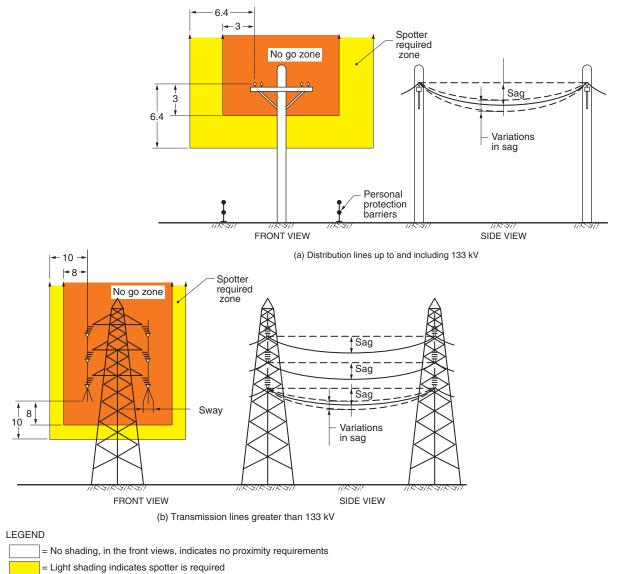
Minimum Save Approach Distance



(b) Avoid simultaneous contact across areas of high potential difference

CLEARANCES FROM LIVE AERIAL CONDUCTORS

(a) Affected area





Tip-over Hazards





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



DO NOT DRIVE ON IRREGULAR OR UNSTABLE SURFACE



DO NOT PUSH OR PULL OBJECTSOUTSIDE PLATFORM





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.

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

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

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

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

Maximum Allowable Side Force

CE and AUS	
90 lbs (400 N)	

DO NOT elevate the platform when wind speeds are in excess of 28 m.p.h. (45 km/h; 12.5 m/s). If these wind speeds occur when the platform is elevated, carefully lower 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.

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

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

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

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

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

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

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



Fall Hazards





Collision Hazards







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

DO NOT exit the platform when elevated

DO NOT climb down from the platform when elevated.

Keep the platform floor clear of debris.

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

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

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

Be aware of blind spots while operating this machine.

Watch for overhead obstructions when elevating the platform.

Watch for crushing hazards when holding the platform rail.

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

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

Stunt driving and horseplay are PROHIBITTED.

Safety



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

	Batteries contain acid. Always wear protective clothing and eye wear when working with batteries.
	Avoid spilling or contacting battery acid. Neutralize battery acid spills with baking soda and water.
Explosion Hazard	
	Keep sparks, flame and lighted tobacco away from batteries. Batteries emit explosive gas.
Electrocution Hazard	

Avoid contact with electrical terminals.

Jobsite Inspection

	DO NOT operate this machine until you have read and understood the Safety section of this manual, have performed the Pre-Start Inspection, Routine Maintenance, and Functions Test, have inspected the jobsite for hazards, and have learned the operating procedures for this machine.
	Inspect the jobsite and determine whether the jobsite is suitable for safe machine operation. Do this before moving the machine to the jobsite.
	Be aware of changing jobsite conditions, and continue to watch for hazards while operating the machine.
	Operators must comply with employer, job site and governmental rules regarding the use of personal protective equipment – see "Fall Protection" on page 3.
Workplace Inspection	
	 Check the jobsite where the machine will be used for all possible hazards, including but not limited to: drop-offs or holes, including those concealed by water, ice, mud, etc. unstable or slippery surfaces bumps, surface obstructions and debris overhead obstructions and electrical conductors hazardous locations and atmospheres inadequate surface and support to withstand all load forces imposed by the machine wind and weather conditions the presence of unauthorized personnel other possible unsafe conditions
	the presence of unauthorized personnel

Functions Test

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

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

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

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

Operating Instructions

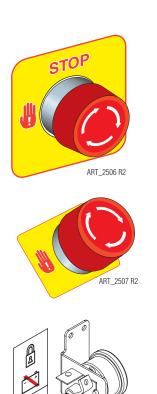
DO NOT operate this machine until you have read and understood the Safety section of this manual, have performed the Pre-Start Inspection, Routine Maintenance, and Functions Test, have inspected the jobsite for hazards, and have learned the operating procedures for this machine.

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

This machine may be operated by trained and authorized personnel only. If multiple operators use this machine, all must be qualified and authorized to use it. New operators must perform a Pre-Start Inspection (see page 22) 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



ART 2356

- Perform Prestart Inspection (see page 22).
- Check base control EMERGENCY STOP switch turn clockwise to reset.

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

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

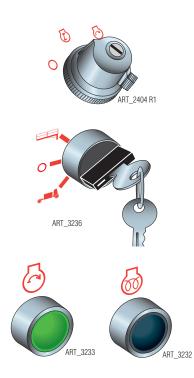


Operating Instructions

Starting Engine from Lower Control Panel

Be sure that the upper and lower EMERGENCY STOP Switches are reset.

• Upper Control Box: Turn Engine Start Switch to RUN.



• Lower Control Box: Turn key switch to BASE.

- Press and hold the START button release the button when the engine starts.
- Cold Start: press and hold the GLOW button as indicated in the Preheat table.
- With the GLOW Button held press and hold the START Button until the engine starts.
- Release both buttons once the engine starts.

Preheat Table

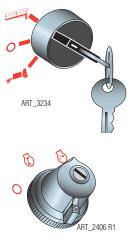
Ambient Temperature	Preheat Time
Above 50°F (10°C)	5 Seconds
23°F to 50°F (-5°C to 10°C)	10 Seconds
Below 23°F (–5°C)	20 Seconds
20 Seconds = Maximum Limit of Preheat time	

CAUTION—PREVENT STARTER DAMAGE:

Maximum cranking time is 10 seconds. Wait 35 seconds between starting attempts. Failure to start after multiple attempts indicates possibility of another problem.



Starting Engine from Upper Control Box





• Lower Control Box: Turn the Key Switch to PLATFORM.

- **Upper Control Box:** Turn the Engine Start Switch to START release when the engine starts.
- Cold Start: lift and hold the GLOW Switch as indicated in the Preheat table.
- With the GLOW Switch held, turn the START Switch until the engine starts.
- Release both switches once the engine starts.

Preheat Table

Ambient Temperature	Preheat Time
Above 50°F (10°C)	5 Seconds
50°F to 23°F (10°C to -5°C)	10 Seconds
Below 23°F (-5°C)	20 Seconds
20 Seconds = Limit of Preheat time	

CAUTION—PREVENT STARTER DAMAGE:

Maximum cranking time is 10 seconds. Wait 35 seconds between starting attempts. Failure to start after multiple attempts indicates possibility of another problem.



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.

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

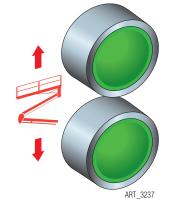
- Elevate to maximum height.
- Releasing the button will stop elevation.
- Pressing the EMERGENCY STOP switch will stop elevation.

Lower Platform

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

Test Operation

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





Platform Control Operation and Test

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

Operate from Platform

- Enter the platform and close and secure the entry.
- Turn the Engine Start Switch to start the engine.
- If equipped, press the Horn Button to verify proper operation.

Tilt Indicator Light

• Light ON indicates the machine is not level.

Overload Light and Alarm

- Light ON indicates too much weight on the platform.
- An audible alarm will sound from the Upper Control box and the Lower Control box.

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.





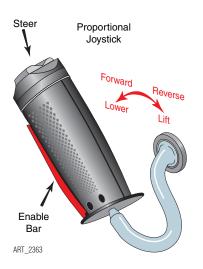


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Select PLATFORM Operation Lower Control Box: Turn the selector switch to PLATFORM.

Joystick Operation



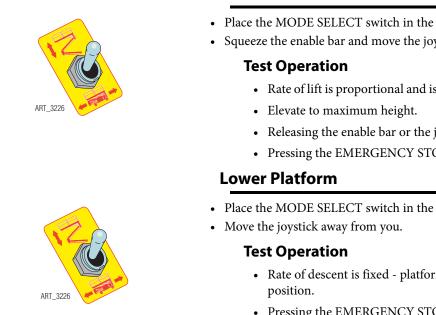
• Function speed is proportional and is controlled by the movement of the joystick.

- The further it is moved forward, the faster the speed will be.
- The joystick returns to the neutral (center) position when released.

WARNING

Do not elevate platform unless guardrails are installed and secure - see "Fold Down Platform Railings" on page 19.

If the platform fails to lower DO NOT attempt to climb down the elevating assembly. Serious injury may result – see "Emergency Systems" on page 18.



Elevate Platform

- Place the MODE SELECT switch in the LIFT position.
- Squeeze the enable bar and move the joystick toward you.
 - Rate of lift is proportional and is dependent on the movement of the joystick.
 - Releasing the enable bar or the joystick will stop elevation.
 - Pressing the EMERGENCY STOP switch will stop elevation.
- Place the MODE SELECT switch in the LIFT position.
 - Rate of descent is fixed platform lowers at same rate regardless of handle
 - Pressing the EMERGENCY STOP switch will stop descent.

WARNING

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 joystick away from you.

Test Operation

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

Drive Reverse

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

Test Operation

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

Brake

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



Leveling Procedure



WARNING

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).

If the TILT light is *ON*, the platform must be brought to level or the LIFT function will not operate.

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 (seeTip-over Hazards on page 6).

Note: The TILT light must be OFF or the platform will not elevate.

Auto Level

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

Manual Level: Front to Rear

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

Manual Level: Side to Side

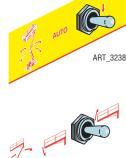
- **Tilt to Left:** Move and hold the toggle switch to the *LEFT* to tilt the platform to the desired position.
- **Tilt to Right:** Move and hold the toggle switch to the *RIGHT* to tilt the platform to the desired position.

Shutdown Procedure





- When finished with the machine, place the platform in the stowed position.
- Park the machine on a level surface.
- Turn the key switch to the OFF position and remove the key to prevent unauthorized use.
- Carefully exit the platform using a constant three (3) point dismount/grip.
- Turn the battery disconnect switch to the OFF position.
 - **Note:** Leaving the battery disconnect switch in the ON position for an extended time will drain the battery.
- Put a padlock on the battery disconnect switch to prevent unauthorized operation.





ART_3239



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

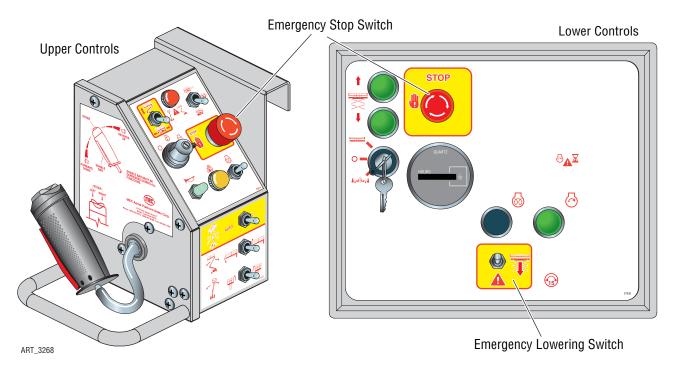
- The upper controls are locked out.
- The lower switch must be reset or the machine will not operate.
- The machine will operate from the lower controls if the upper controls switch is tripped.

Emergency Lowering

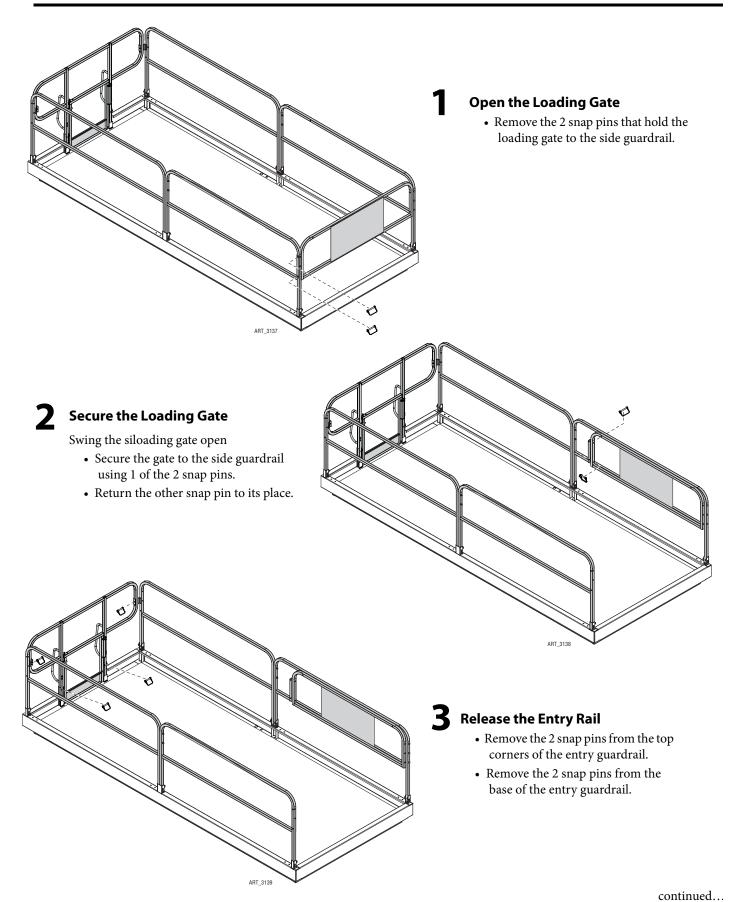
The Emergency Lowering System is used to lower the platform in case of power or valve failure. The Emergency Lowering switch will function if the EMERGENCY STOP switch is tripped.

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.

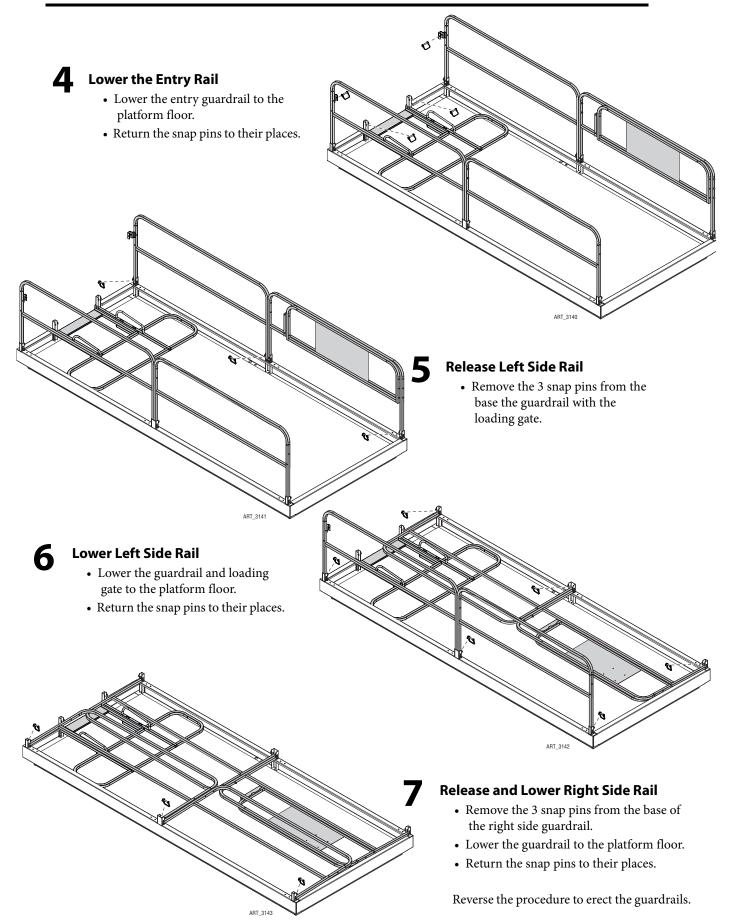


Fold Down Platform Railings





Fold Down Rails (continued)



(Mec)

3084RT Speed Level[®]

Machine Inspections

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

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

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

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

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



Never perform service on the machine with the platform elevated without first blocking the elevating assembly (see Maintenance Safety on page 27).

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.

WARNING 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 21.

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 all hoses and the cables for worn or chafed areas.
	Check the platform rails and sliding mid-rail entry for damage or modification.
	Check that all warning and instructional labels are legible and secure.
	Check the tires for damage.
	Check the tire pressure (not required for foam filled tires).
	Check the lower limit switch for visual damage or loose or missing hardware.
	All structural components, pins and fasteners are present and properly tightened.

Fluid Level Checklist

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

Secure for operation

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



Monthly Inspection Checklist

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

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

Model Number Serial Number		
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 28).	
	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 28).	



3084RT Speed Level[™]

Quarterly Inspection Checklist

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

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

Model Number Serial Number		
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.	
Additional maintenance requirements for severe conditions		

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

DATE_____INSPECTED BY __



Comments:

Contact • Check each item listed below.

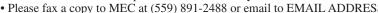
Street ____

3084RT Speed Level

Annual Inspection Report

• 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.



MEC Aerial Platform Sales Corp. 1775 Park Street, Suite 77 • Selma, CA 93662 USA 800-387-4575 • 559-891-2488 • Fax: 559-891-2493

Customer

City/State/Zip _____

Phone Number _____

	V N	RU	Т	V	NI	R U		V	Ν	R	TI
Decals:			Base:	_			Operation:				Ĕ
Proper Placement/Quantity	+ $+$		Cover Panels Secure			-	Wires Tight				┢
Legibility	+ $+$		Base Fasteners Tight			-	Switches Secure				+
Correct Capacity Noted	+ $+$	+	Bolts Tight				All Functions Operational				+
Rails:			Front Axle Mounting (4WD)			-	Emergency Down:		-		+
All Rail Fasteners Secure			Rear Axle Mounting (4WD)			-	Operational				+
Entry Gate/Chain Closes Properly	+		Front Axle/Front Wheel Assemblies:			-	Slow Speed Limit Switch:				+
Manual/Safety Data In Box			Wheel Motors-Mounting Secure		-	-	Set Properly		-		+
Rear Rail Pad In Place	+ $+$		Wheel Motors-Leaks			-	Pothole Bars:		-		+
Extending Platform:			Lug Nuts Torqued Properly				Operate Smoothly				\vdash
Slides Freely	+ $+$		Steering Cylinder Pins Secure			-	Lock In Place				+
Latches In Stowed Position	+ $+$		Pivot Points Lubed			-	Limit Switches Adjusted				+
Latches In Extended Position	+ $+$		Drive Assembly Front Hubs:			-	Pressures & Hydraulics:				+
Rail Latches Work Properly	+		Castle Nut Torqued Properly			-	Oil Filter Secure/Chg				+
Cable Secure			Cotter Pinned			-	Oil Level Correct/Chg				+
Platform:			Rear Axle/Rear Wheel Assemblies:			-	Steering Pressure Set				+
Platform Bolts Tight			Brakes Operational		-	-	Drive Pressurre Set		-		\vdash
Platform Structure			Wheel Motors-Mounting Secure				Lift Pressure Set				+
Platform Overload System:			Wheel Motors-Leaks		-		Engine:		+		+
Functional			Lug Nuts Torqued Properly			+	Engine Mounts Tight				+
Calibrated			Axle Pivot Libed (4WD)			+	Fuel Lines Secure				┢
Wire Harnesses:			Axle Lock Operational				Fuel Lines Free Of Leaks				┢
Mounted Correctly			Component Area:			-	Fuer Tanks Secure				\vdash
Physical Appearance			Valve Manifold(s) Secure				Fuel Shut Off Valves Func.				+
110/220V Outlet Safe/Working			Hoses Tight/No Leaks				All Shields/Guards In Place				┢
Elevating Assembly:			D/C Mtr(s) Secure/Operational				Oil Level				+
Beam Structures			Contactors Secure				Oil Filter				+
Welds			Pump Secure				Air Filter				1
Retaining Rings			Batteries:				Options Operational:				+
Upper Cylinder Pins Secure			Secure				Hour Meter				+
Lower Cylinder Pins Secure			Fully Charged				Battery Indicator				+
Lower Beam Mounts tight			Battery Charger:		+		Warning Light				\uparrow
Rollers Turn Freely			Secure				Warning Horn		1		\square
Maintenance Locks:			Operational				Generator		1		\vdash
Secure			Emergency Stop:				Converter				\square
Operational			Breaks All Circuits								\vdash

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

Date: Date:



Dealer

City/State/Zip _____

Phone Number

Street ____

Contact _

Date

Serial Number Model Number

Date Of Last Inspection

Date Placed In Service

Maintenance

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

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

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

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

DANGER	
	Never perform service on the machine with the platform elevated without first blocking the elevating assembly (see Maintenance Safety on page 27).
	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.
WARNING	
	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.

Pre-Start Inspection Perform routine maintenance as identified in the *Pre-Start Inspection Checklist* on page 22.

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.

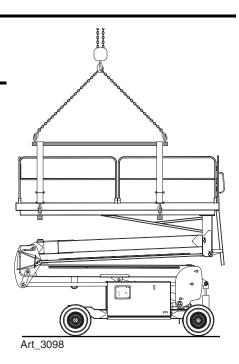
Machines that have been out of service for more than three months must receive the quarterly inspection before returning to service.

Maintenance Safety



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

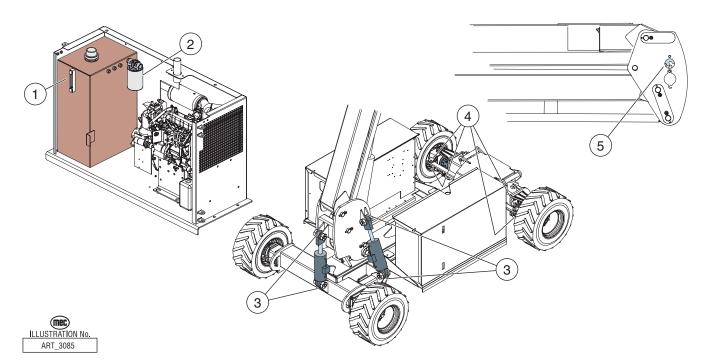
Use a crane with chains and straps of adequate lifting capacity to support the platform.





Lubrication

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

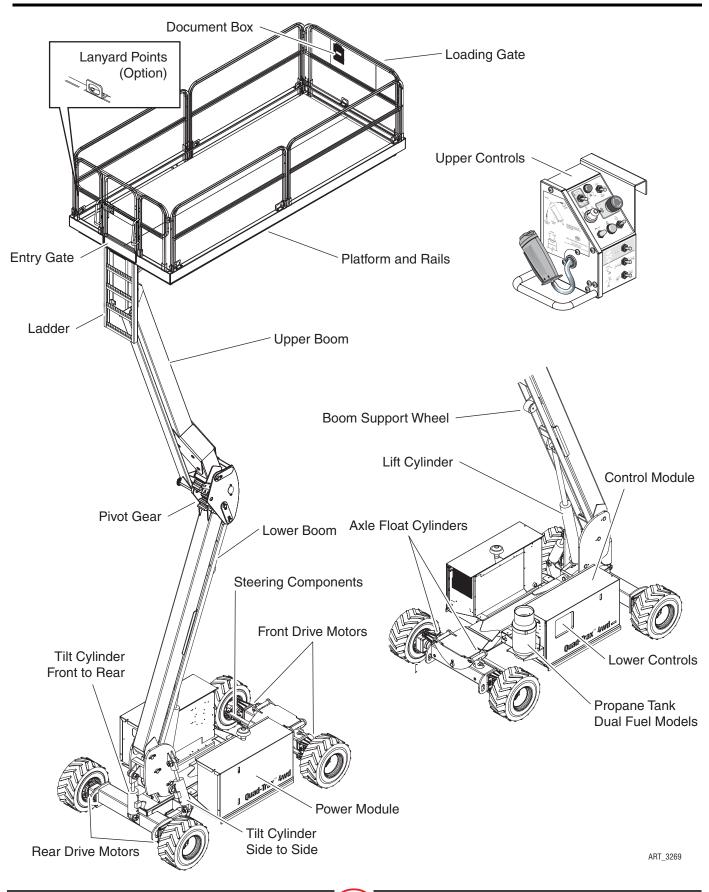


Lubrication

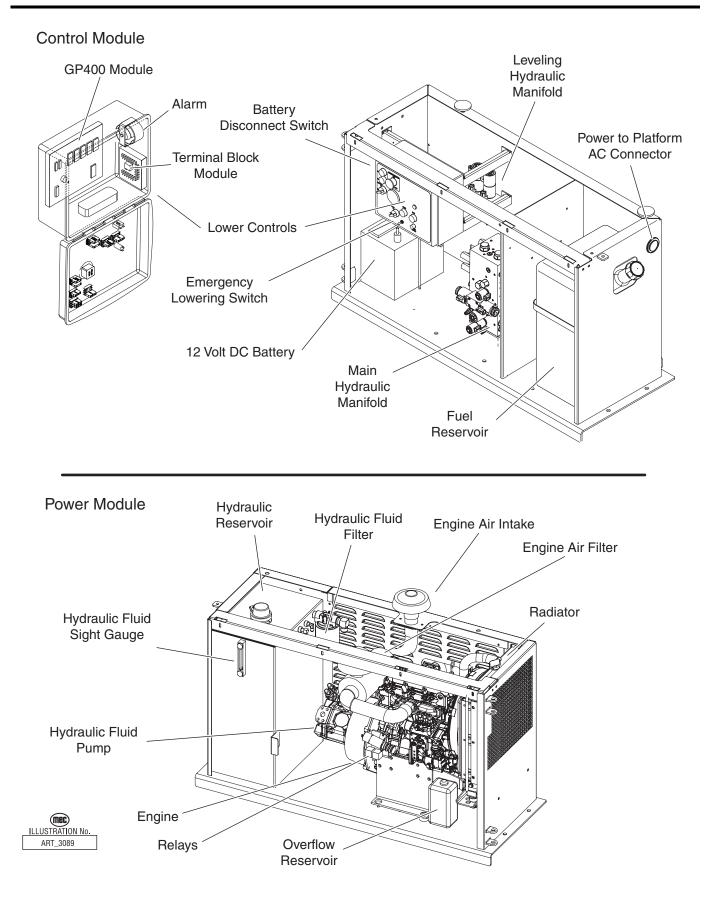
No.	ITEM	SPECIFICATION	FREQUENCY
1	Hydraulic Reservoir	Mobile Fluid DTE 10 Excel ISO 32 or DTE 13 M Do not substitute with lower grade fluids as pump damage may result. Fill to the middle of the sight gauge with platform in the stowed position.	Routine Maintenance Check Daily Scheduled Maintenance Change 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	Mobile NC375 Open Gear Lubricant 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

Component Locations

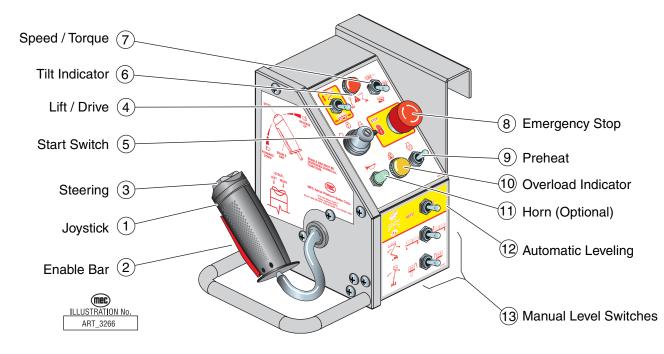
Full Machine



Modules

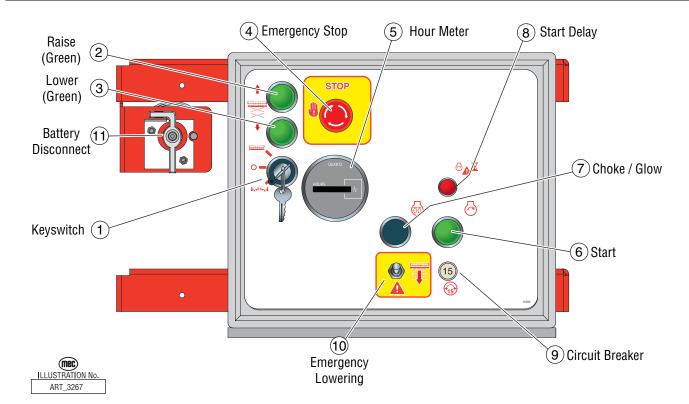


Upper Controls



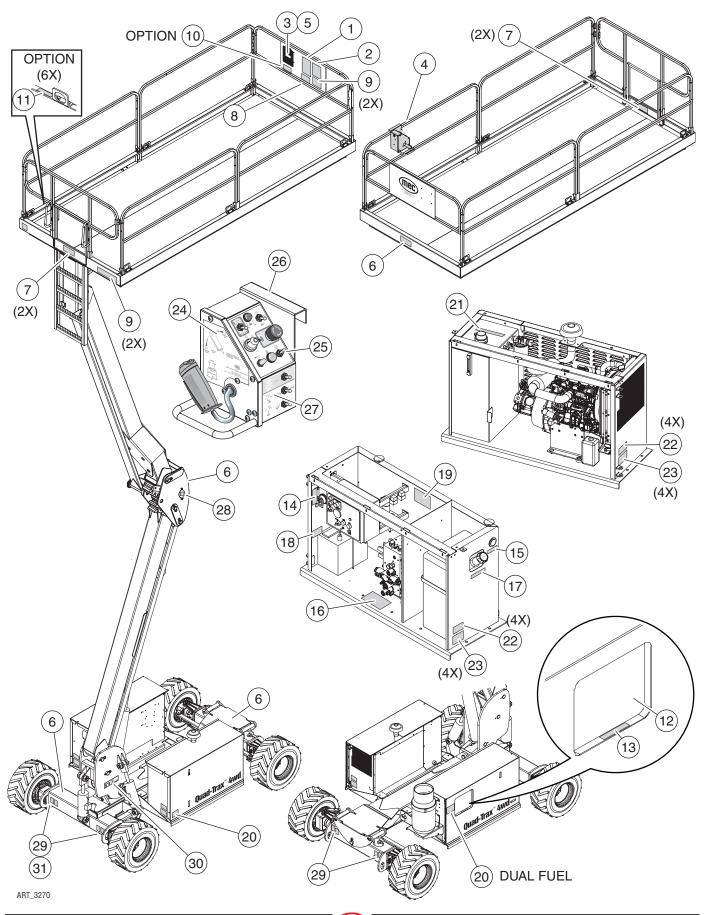
	CONTROL	DESCRIPTION					
1	Joystick	DRIVE Controls Forward and Reverse travel at stepped speeds.					
		LIFT	Move toward operator to elevate platform. Lift speed increases proportional to the joystick movement. Will not function if TILT light is <i>ON</i> . Move away from operator to lower platform. Speed is fixed.				
2	Enable Bar	Squeeze to enable DRIVE, STEER, and LIFT from joystick.					
3	Steering Switch	Using thumb, press a	Using thumb, press and hold the rocker switch to steer Left or Right.				
4	Lift/Drive Selector	Select LIFT or DRIV	/E function for joystick.				
5	Start Switch	Turn to start engine. Switch will return to RUN position for normal operation. Turn to <i>OFF</i> to shut engine down.					
6	Tilt Indicator Light	Light ON indicates platform out of level. Platform will not elevate when TILT light is ON.					
7	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).				
8	EMERGENCY STOP Switch	PUSH to stop all machine functions. TURN CLOCKWISE to reset.					
9	Preheat	Press when starting in cold start conditions.					
10	Overload Indicator	Light ON indicates platform overloaded.					
11	Horn (option)	Press to sound warning horn.					
12	Automatic Level Switch	Move switch DOWN and hold until automatic leveling is complete. Tilt Light will turn <i>OFF</i> when platform is level.					
13	Manual Level Switch	Move upper switch to the left to LOWER the front of the platform. Move upper switch to the right to RAISE the front of the platform. Move lower switch to the left to move the platform to the LEFT. Move lower switch to the right to move the platform to the RIGHT.					

Lower Controls



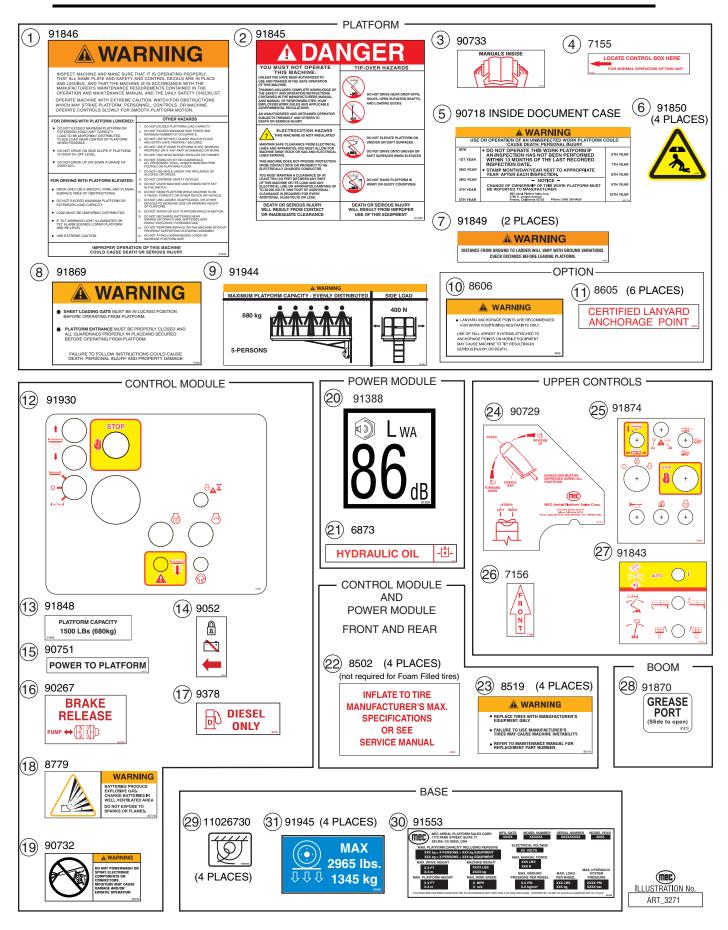
	CONTROL	DESCRIPTION			
1 Selector Switch		PLATFORM Select to operate from the platform control panel.			
		BASE	Select to operate from the base control panel.		
		OFF	Select to stop operation from either control panel.		
2	RAISE Button	Press and hold to elevate the platform. Release to stop elevation.			
3	LOWER Button	Press and hold	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	Start Button	Press to start engine. Release when engine starts.			
7	Glow	Operate when starting in cold start conditions.			
8	Start Delay Light	Prevents over-cranking of engine. When lit, starter is disabled. After approximately 35 seconds the light will go out and starter will operate.			
9	Circuit Breaker	Trips when there is excessive electrical load. Push to reset.			
10	EMERGENCY LOWERING Switch	Push and hold the toggle switch Down to fully lower the platform.			
11	Battery Disconnect	Battery power supply. Turn OFF and padlock to secure machine from unauthorized use.			

Decals





Decals (continued)



(Mec)

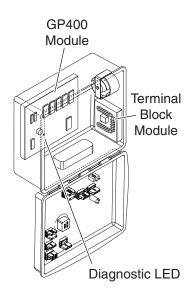
Troubleshooting

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

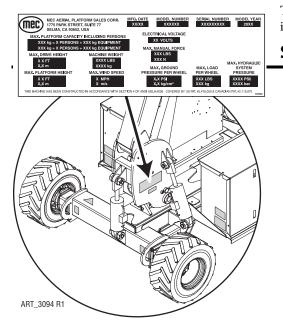


• Battery Disconnect Switch ON?

- Battery fully charged?
- Function toggle switch or the enable switch not activated?
- Selector key 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 Location



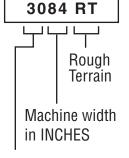
The serial plate is attached to the machine at the time of manufacture. Important information about the machine is recorded on the serial plate.

Serial Plate Description

Serial Plate Item Information Defined







Max. platform height in FEET

ART_3087

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.

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.

(mec)

Transport and Lifting Instructions

Safety Information

WARNING 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.

CAUTION

DANGER

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. Be on guard against runaway.

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.

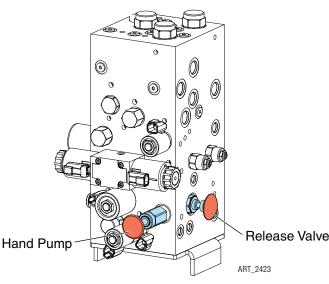
Disengage Brakes before Towing or Winching

- 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.

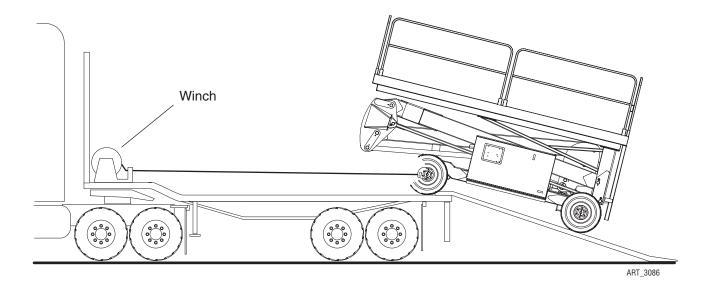
- Attach the machine to a winch.
- Remove all machine tie downs. Remove wheel chocks.

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 37).
- 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.

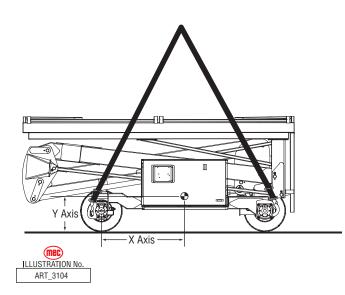
- Fully lower the platform. Be sure the extension deck is retracted and the module doors are closed and secure. Remove all loose items from the machine.
- Determine the center of gravity of the machine.
- Attach rigging to the designated lift points only.
- Adjust the rigging to prevent damage to the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

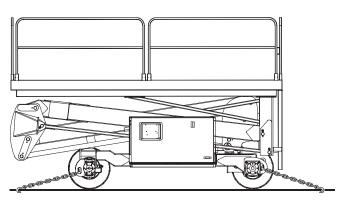
Securing to Truck or Trailer for Transport

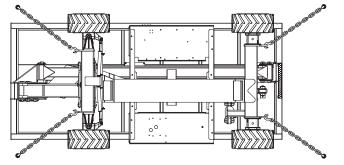
- Lock the extension deck in the retracted position.
- Turn the key switch to OFF and remove the key before transport.
- Turn the battery disconnect switch to OFF before transport.
- Inspect the entire machine for loose or unsecured items.
- Use chains or straps of ample load capacity.
- Use a minimum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

Center of Gravity and Lifting Points

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







Notes



(Mec)

Limited Owner Warranty

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



MEC Aerial Platform Sales Corp.

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