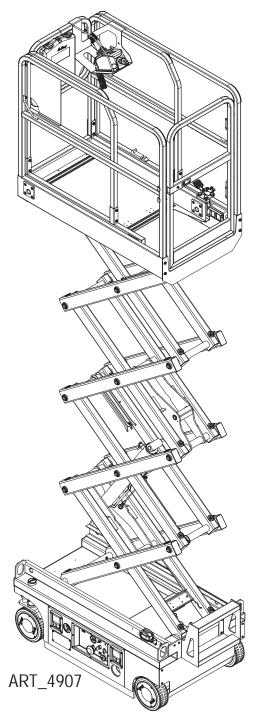


Operator's Manual

1330SE



Serial Number Range 16307700 - Up

This manual applies to machines ANSI A92.20-2020 and CSA B354.6-2019.

Part # 95799 September 2023

Revision History

Date	Reason for Update
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Section 1 - Introduction September 2023

Introduction

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

This Operator's Manual and other manuals provided by MEC on the machine must be read and understood prior to operating your MEC Aerial Work Platform. The operator should not accept operating responsibility until he/she has read and understands the operator's manual as well as having operated the MEC Aerial Work Platform under supervision of an authorized, trained and qualified operator.



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

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

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

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

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



MEC Aerial Work Platforms

1401 S. Madera Avenue, Kerman, CA 93630 USA

Toll Free: 1-877-632-5438 Phone: 1-559-842-1500 Fax: 1-559-842-1520 info@MECawp.com www.MECawp.com Section 2 - Safety September 2023

Safety

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

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

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

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



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

Section 2 - Safety September 2023

Safety Alert Symbols & Fall Protection

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



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



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



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



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



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

Fall Protection

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



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

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

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

Specifications

			_	
Maximum Working Height*	Indoor	19 ft	6 m	
	Outdoor	16 ft	4.9 m	
Maximum Platform Height	Indoor	13 ft	3.9 m	
	Outdoor	10 ft	3 M	
Maximum Drive Height		13 ft	4 m	
Stowed Height	Top Guardrail	74 in	1.9 m	
	Platform Floor	35 in	0.9 m	
Guardrail Height		39 in	1 m	
Personnel Capacity	Indoor	2	2	
r ersonner Capacity	Outdoor	•	1	
Manual Force	Indoor	90 lbs	400 N	
Manual Force	Outdoor	45 lbs	200 N	
Toeboard Height		6 in	15 cm	
Machine Weight** (Unloade	d)	2,050 lbs	930 kg	
Maximum Lift Capacity		500 lbs	227 kg	
Deck Extension Capacity		1 Person / 25	50 lb (113 kg)	
Maximum Occupants		2	2	
Length-Stowed (Overall)		58 in	1.5 m	
Length-Stowed (Ladder Ren	noved)	51 in	1.3 m	
Platform Length (Extended)		75 in	1.9 m	
Platform Length (Retracted)		51 in	1.3 m	
Width (Overall)		30 in	76 cm	
Platform Width (Outside)		27.5 in	70 cm	
Wheel Base		41 in	1 m	
Turning Radius - Inside		18 in	45 cm	
Ground Clearance - Stowed		2.5 in	6 cm	
Ground Clearance - Elevate	d	0.6 in	1.5 cm	
	Stowed	0-2.5 mph	0-4.0 km/h	
Drive Speed (Proportional)	Raised or Extended	0-0.7 mph	0-1.1 km/h	
Gradability		25%	5/14°	
Maximum Side Slope - Stow	red	5)°	
Ground Pressure/Wheel		112 psi	7.9 kg/cm ²	
Maximum Wheel Load		750 lbs	340 kg	
Occupied Floor Pressure		234 psf	1,138 kg/m ²	
Maximum Operating Wind S	peed	-	n/sec (45 km/h)	
Tire Size		<u>_</u>	230 x 80mm	
Lug Nut Torque		19 ft-lb / 25.5 Nm, secured with cotter pin		
Hydraulic Pressure			/ 155 bar	
Power System Voltage			olt DC	
	Input		C, 50-60 Hz	
Battery Charger	Output		olt DC	
Batteries	3.45		ep cycle; 85Ah	
Chassis Inclination		1.5 Side	3.0 Inline	
Meets requirements of ANSI	A92.20-2020 and CSA			



^{*}Working Height adds 6 feet (2 m) to platform height.

^{**}Weight may increase with certain options.

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.



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

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

Art_2823	

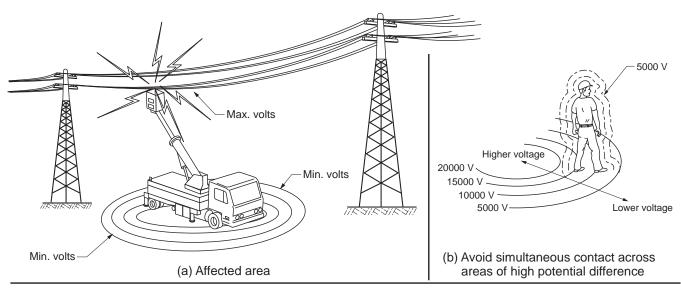
Voltage	Minimum Safe Ap	proach Distance
Phase to Phase	Feet	Meters
0 to 300 Volts	Avoid C	Contact
Over 300V to 50kv	10	3.1
Over 50KV to 200KV	15	4.6
Over 200KV to 350KV	20	6.1
Over 350KV to 500KV	25	7.6
Over 500KV to 750KV	35	10.7
Over 750KV to 1000KV	45	13.7

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

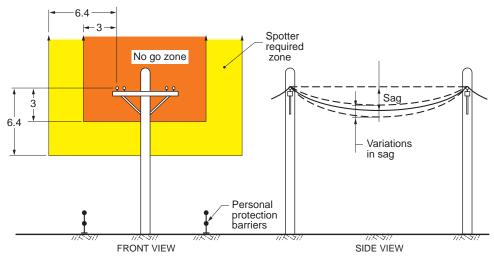
Keep away from the machine if it contacts energized power lines. Personnel on the ground or in the platform must not touch or operate the machine until energized power lines are shut off.

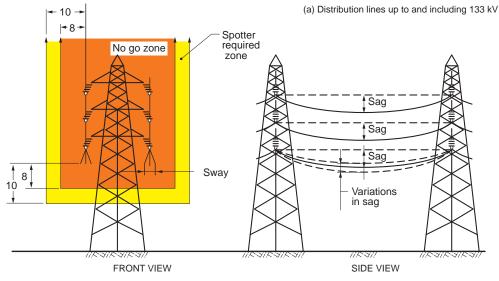
Do not use the machine as a ground for welding.

Energized Conductor Contact Hazard



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

ART 3265

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

- a. Stay at least 10 feet away from power lines with any part of their body, conductive object or any part of the MEWP.
- b. If work requires working nearer than 10 feet, stop and consult <u>a qualified person with respect</u> to electrical transmission and distribution to have appropriate measures taken (such as deenergizing and grounding).
- c. If there is a question that the power lines may carry more than 50kV, consult <u>a qualified person</u> with respect to electrical transmission and distribution before proceeding.
- d. If working or approaching closer than explained above, it shall only be done by <u>a qualified</u> <u>person with respect to electrical transmission and distribution</u>. Only qualified persons may work on electric circuit parts or equipment that has not been de-energized. Such persons shall be capable of working safely on energized circuits and shall be familiar with the proper use of special precautionary techniques, personal protective equipment, insulating and shielding materials and insulated tools.

Tip-over Hazards

DO NOT exceed the maximum platform capacity. 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.

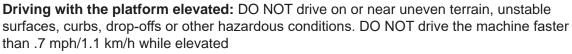
DO NOT elevate the platform when the machine is on a surface that is soft and/or on a slope.

DO NOT depend on the tilt alarm as a level indicator. STOP if the tilt alarm sounds and the red light illuminates when the platform is raised. Use extreme caution to lower the platform. Move the machine to a firm, level surface.



Driving: DO NOT drive the machine on a slope that exceeds the maximum uphill, downhill or side 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.





DO NOT push off or pull toward any object outside the platform. DO NOT push the machine or other objects with the platform. DO NOT contact adjacent structures with the platform. DO NOT tie the platform to adjacent structures.

Maximum Allowable Side Force	
45 lbs (200 N) per person	



DO NOT use the platform controls to free a platform that is caught, snagged or otherwise prevented from normal motion by an adjacent structure.

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. DO NOT place loads outside the platform perimeter.

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.

DO NOT operate the machine with the chassis trays open.

DO NOT alter or disable the limit switches or machine components that in any way affect safety and stability.

DO NOT replace items critical to machine stability with items of different weight or specification. DO NOT modify or alter this machine without prior written permission from the manufacturer.

DO NOT use batteries that weigh less than the original equipment. Each battery must weigh 55 lbs/25 kg. The batteries must weigh a minimum of 110 lbs/50 kg.



Fall & Collision Hazards

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. 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.

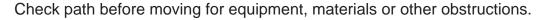


Ensure that the platform entry is properly closed and secured before operating the machine.

Ensure that the guard rails are properly installed and in good condition 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 overhead obstructions.

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

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

Be aware of extended platform position(s) when moving the machine.

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



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 PROHIBITED.

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

Keep hands and limbs out of scissors.

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

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.
- DO NOT connect the ground lead to the platform.

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.

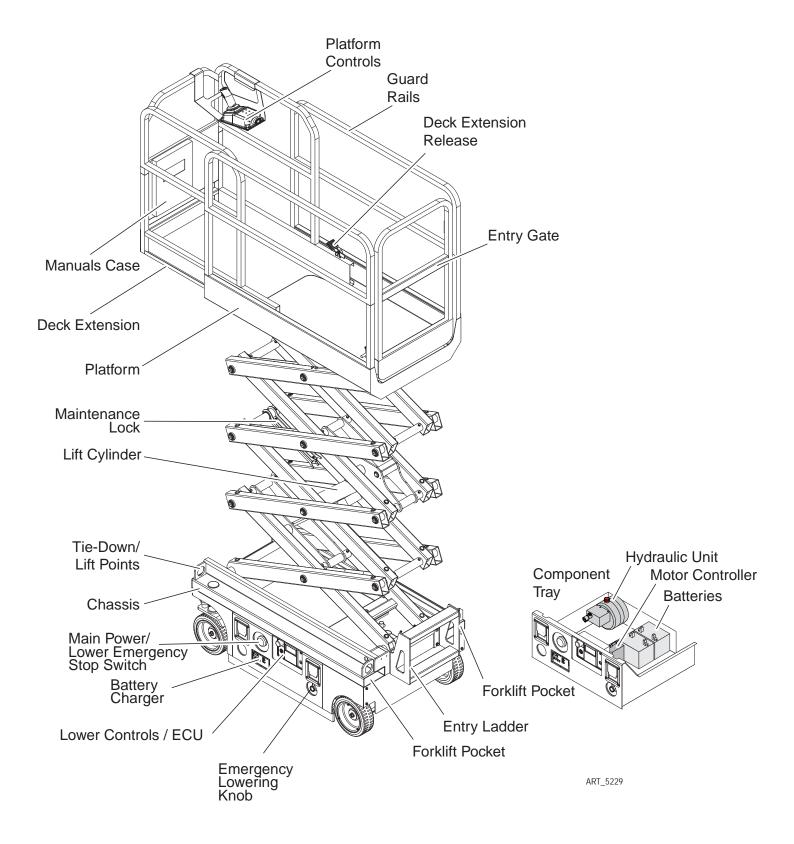
Explosion Hazard

 Keep sparks, flame and lighted tobacco away from batteries. Batteries emit explosive gas. The battery tray should remain open during the entire charging cycle.

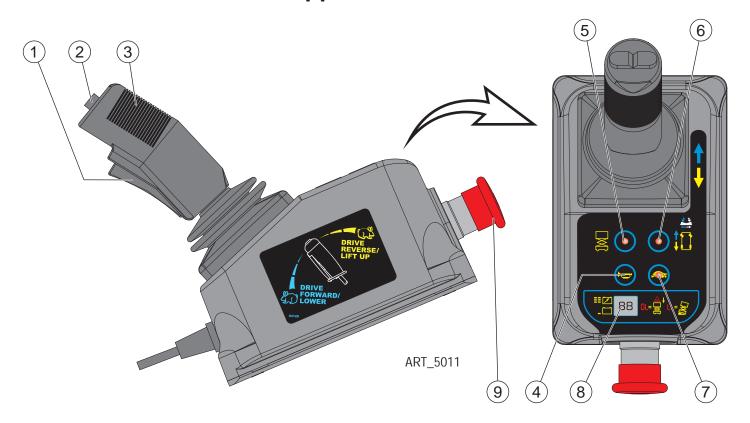
Electrocution Hazard

Avoid contact with electrical terminals.

Component Locations



Upper Controls

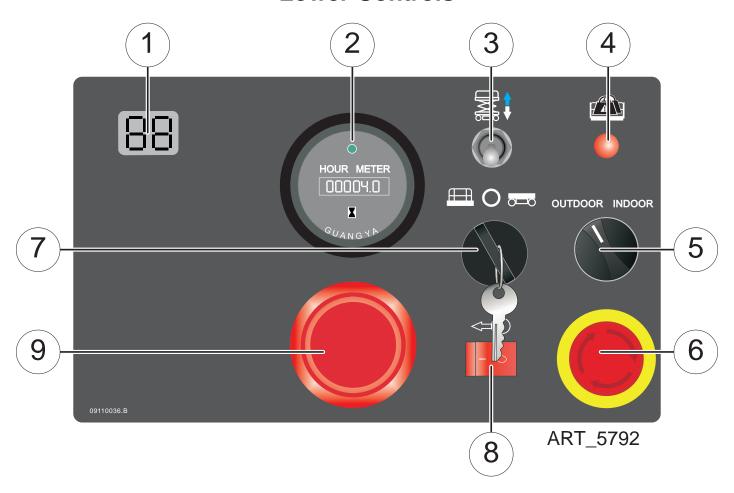




ALWAYS be aware of the machine's position and of your surroundings before activating any control function.

	Control	Description				
1	Function Enable Switch		e the Function Enable Switch to enable LIFT & DRIVE & STEER functions ntrol Handle.			
2	Steer Switch	0,	our thumb press the thumb rocker switch in either direction to activate Left or Right function.			
3	Control Handle	DRIVE	Proportionally controls Forward and Reverse travel.			
3	Control Handle	LIFT	Proportionally controls Lift and Lower functions.			
4	Horn Button	Press to	sound warning horn.			
5	Lift Select	Press th	is button to select the LIFT function.			
6	Drive Select	Press th	is button to select the DRIVE function.			
7	Drive Speed Select	Press this button to activate the slow or fast drive function. Light ON indicates Low Speed Drive is selected. Light OFF indicates High Speed Drive is selected.				
8	LED Display	Indicate	s the state of battery charge and displays diagnostic codes when necessary.			
9	Emergency Stop Switch		e EMERGENCY STOP switch at any time to stop all machine functions. button clockwise to the on position to operate the machine.			

Lower Controls





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

	Control	Description					
1	LED Display	Indicates the	Indicates the state of battery charge and displays diagnostic codes when necessary.				
2	Hour Meter	The hour met	er displays the number of hours the machine has operated.				
3	Platform Lift / Lower Switch	With the Key down to lower	Switch in the BASE position, move this switch up to lift the platform or the platform.				
4	Platform Overload	Indicates too much weight on the platform. Remove weight from the platform to restore function and continue.					
5	Outdoor/Indoor Switch	OUTDOOR	Select to limit the maximum height when outdoors.				
3	Outdoor/indoor Switch	INDOOR	Select to allow unrestricted height when indoors.				
6	Emergency Stop Switch		ERGENCY STOP switch at any time to stop all machine functions. ockwise to the on position to operate the machine.				
		PLATFORM	Select to operate from the platform control panel.				
7	Key Switch	OFF	Select to stop operation from either control panel.				
		BASE	Select to operate from the base control panel.				
8	Brake Release Switch	See page 37	for instructions.				
9	Main Power Switch	Pull to turn the	e power on or push to turn the power off.				

Workplace Inspection

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

Instructions section. 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

Before operating the machine, 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

Operating Instructions & Functions Test

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

This section provides instructions and tests for each function of machine operation. Follow all safety rules and instructions. The operator must conduct inspections and a Functions Test of the machine before each work shift to check that all machine systems are working properly.

Test the machine on a firm level surface with no debris, drop-offs, potholes or overhead obstructions. Perform each step outlined in this section.

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

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

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



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

Prestart



Perform Prestart Inspection (see page 30).

Check Emergency Stop Switches at the platform controls – turn clockwise to reset.





Check Main Power/Lower Emergency Stop Switch. Must be in ON position.



Functions Test

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

At the Ground Controls

- 1. Turn the ground red Emergency Stop button clockwise to the on position
- 2. Pull out the platform red Emergency Stop button to the on position.
- 3. Turn the key switch to ground control.
- 4. Observe the diagnostic LED readout on the ECU window.
 - **Result:** The LED should look like the picture to the right.



Test Emergency Stop

- 1. Push in the ground red Emergency Stop button to the off position.
 - **Result:** No functions should operate.
- 2. Turn the ground red Emergency Stop

Test Up/Down Functions



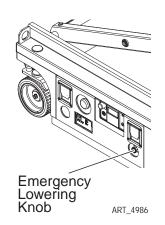
Check the area above and around the machine for obstructions and electrical power lines before operating the machine.

A buzzer with different sound frequency is controlled in central system. The descent alarm sounds at 60 beeps per minute. The alarm that goes off when the machine is not level sounds at 150 beeps per minute.

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

Test the Emergency Lowering

- 1. Activate the up function and raise the platform approximately 2 ft / 60 cm.
- 2. Pull the emergency lowering knob.
 - Result: The platform should lower. The descent alarm will not sound.





At the Platform Controls

1. Turn the Key Switch to platform control.

Test Emergency Stop

- 1. Push in the platform red Emergency Stop button to the off position.
 - Result: No functions should operate.
- 2. Turn the red Emergency Stop button clockwise to the on position.
 - Result: The LED indicator light should come on.

Test the Horn

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

Test Function Enable and Up/Down Functions



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

- 1. Do not hold the function enable switch on the control handle.
- 2. Slowly move the control handle in the direction indicated by the blue arrow, then in the direction indicated by the yellow arrow.
 - Result: No functions should operate.
- 3. Press the lift function select button.
- 4. Press and hold the function enable switch on the control handle.
- 5. Slowly move the control handle in the direction indicated by the yellow arrow.
 - **Result:** The platform should raise.
- 6. Release the control handle.
 - Result: The platform should stop raising.
- 7. Press and hold the function enable switch. Slowly move the control handle in the direction indicated by the blue arrow.
 - **Result:** The platform should lower. The descent alarm should sound while the platform is lowering.

Test the Steering

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

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



Test Drive and Braking

- 1. Press and hold the Function Enable Switch on the control handle.
- 2. Slowly move the control handle in the direction indicated by the blue up arrow on the control panel until the machine begins to move, then return the handle to the center position.
 - **Result:** The machine should move in the direction that the blue up arrow points on the control panel, then come to an abrupt stop.
- 3. Press and hold the Function Enable Switch on the control handle.
- 4. Slowly move the control handle in the direction indicated by the yellow down arrow on the control panel until the machine begins to move, then return the handle to the center position.
 - **Result:** The machine should move in the direction that the yellow down arrow points on the control panel, then come to an abrupt stop.

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

Test Limited Drive Speed

- 1. Press the lift Function Enable Switch. Raise the platform approximately 4.2 ft / 1.3 m from the ground.
- 2. Press the drive function select switch.
- 3. Press and hold the Function Enable Switch on the control handle.
- 4. Slowly move the control handle to the full drive position.
 - **Result:** The maximum achievable drive speed with the platform raised should not exceed 1.1 ft per second / 30.5 cm/s.
 - If the drive speed with the platform raised exceeds 1.1 ft per second / 30.5 cm/s, immediately tag and remove the machine from service.

Operating Instructions

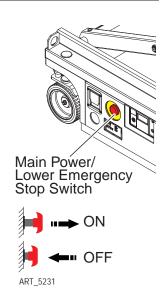


Check the area above and around the machine for obstructions and electrical power lines before operating the machine.

Emergency Stop

Push in the red Main Power/Lower Emergency Stop Switch button to the off position at the ground controls or the platform controls to stop all machine functions.

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



Emergency Lowering

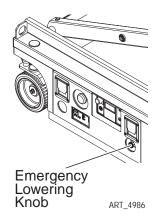


If the control system fails while the platform is elevated, use the emergency lowering procedure to safely lower the platform.

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

The Emergency Lowering System is used to lower the platform in case of power failure.

• Pull the Emergency Lowering Knob to lower the platform.



Outdoor/Indoor Switch

Select working environment before using machine.

- Turn the switch to OUTDOORS to restrict platform height when working outdoors.
- Turn the switch to INDOORS to allow unrestricted platform height when working indoors.



Art 5587

Operation from Ground

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

- 1. Turn the Key Switch to ground control.
- 2. Set the red Emergency Stop buttons to the ON position at both the ground and platform controls.
- 3. Be sure the battery pack is connected before operating the machine.





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

To Position Platform

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



ART_4988

Operation from Platform

- 1. Turn the Key Switch to platform control.
- 2. Set the red Emergency Stop buttons to the ON position at both the ground and platform controls.
- 3. Be sure the battery pack is connected before operating the machine.



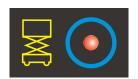
ART_4989

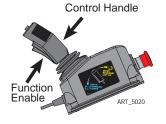


Check the area above and around the machine for obstructions and electrical power lines before operating the machine.

To Position Platform

- 1. Press the lift function select button.
- 2. Press and hold the Function Enable Switch on the control handle.
- 3. Move the control handle according to the markings on the control panel.

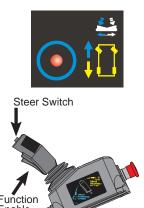






To Steer

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



To Drive

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

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

Machine travel speed is restricted when the platform is raised.

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



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

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

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



ART_5023

Control Handle

Driving On A Slope

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

- Maximum forward/rearward slope rating, stowed position 25%.
- Maximum side slope rating, stowed position 5°.

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

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



To determine the slope grade

Measure the slope with a digital inclinometer OR use the following procedure.

You will need:

- Carpenter's level
- Straight piece of wood, at least 3.3 ft / 1 m long
- Tape measure

Lay the piece of wood on the slope.

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

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

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

Example:

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



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

Operation from Ground with Controller



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

Maintain safe distances between operator, machine and fixed objects.

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

Battery Level Indicator

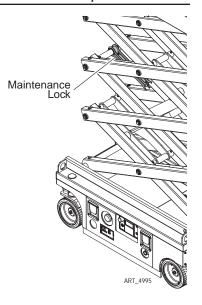


Use the LED diagnostic readout to determine the battery level.



Maintenance Lock

- 1. Raise the platform approximately 7.2ft / 2.2m from the ground.
- 2. Rotate the Maintenance Lock away from the machine and let it hang down.
- 3. Lower the platform until the Maintenance Lock rests securely on the link. Keep clear of the Maintenance Lock when lowering the platform.



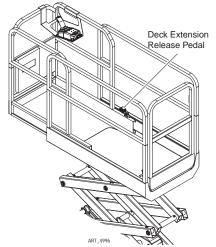


Don't engage the Maintenance Lock unless the platform in empty of tools and material.

To Extend and Retract the Deck Extension

- 1. Press the platform lock pin foot pedal on the extension deck.
- 2. Push the platform extension guardrail to extend the platform to the desired position.

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





IF THE ROLL-OUT DECK IS EXTENDED CHECK FOR CLEARANCE UNDER DECK AREA BEFORE LOWERING PLATFORM.

Error Indicator Readout

Consult the Service & Parts Manual for Alarm Code descriptions.





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.
- Push in the red Main Power/Lower Emergency Stop Switch button to the OFF position when leaving the machine at the end of the work day.
- Charge the batteries.



Battery Charging

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.

Do not use an external charger or booster battery.

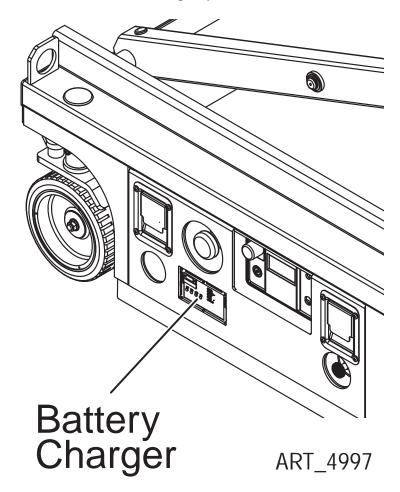
Charge the battery in a well-ventilated area.



Use proper AC input voltage for charging as indicated on the machine.

Use only MEC authorized batteries and chargers.

The charger will indicate the status of the charge cycle.



Maintenance

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

The operator must conduct a Pre-Start Inspection of the machine and test all functions before each work shift to check for damage, malfunction and unauthorized modification. The inspection is designed to discover if anything is apparently wrong with a machine before the operator performs the function tests.

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.



Hydraulic fluid under pressure can penetrate and burn skin, damage eyes, and may cause serious injury, blindness, and death. Repair leaks immediately. Fluid leaks under pressure may not always be visible. Check for pin hole leaks with a piece of cardboard, not your hand.

NEVER perform work or inspection on the machine with the platform elevated without first blocking the scissor assembly with the Maintenance Lock (see page 18).



Perform scheduled maintenance at recommended intervals. Failure to perform scheduled maintenance at recommended intervals may result in a defective or malfunctioning machine and may result in injury or death of the operator. Keep maintenance records current and accurate.

Immediately report any damage, defect, unauthorized modification or malfunction to your supervisor. Any defect must be repaired prior to continued use. DO NOT use a damaged, modified or malfunctioning machine.



Never leave hydraulic components or hoses open. Plug all hoses and fitting immediately after disassembly to protect the system from outside contamination (including rain).

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 cause as much damage as no lubrication.



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

Inspection and maintenance should be performed by qualified personnel familiar with the equipment.

Routine Maintenance



NEVER perform work or inspection on the machine with the platform elevated without first blocking the scissor assembly with the Maintenance Lock.

See page 18 for instructions.

IMPORTANT: The operator may perform only maintenance items on the Pre-Start Inspection Checklist. Frequent and Annual maintenance must be performed by qualified service technicians.

Pre-Start Inspection

Perform routine maintenance as identified in the Pre-Start Inspection Checklist on page 23.

Frequent and Annual Maintenance

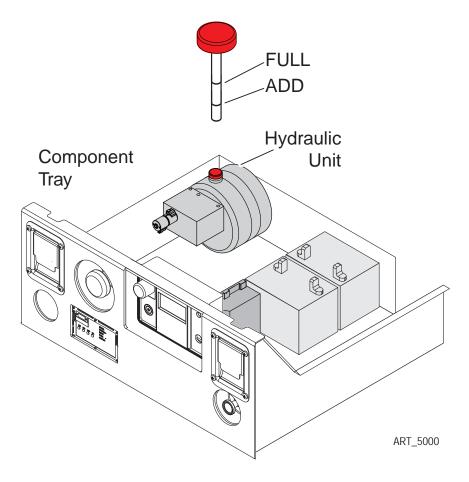
Frequent Inspection Checklists and Annual Inspection Reports must be completed by qualified service technicians trained and authorized to perform maintenance on this machine, and must be done in accordance with the procedures outlined in the service manual. Scheduled maintenance inspection checklists are included in this manual for use by qualified service technicians.

Machines that have been out of service for more than three months must have the Frequent Inspection Checklists completed before returning to service.



Lubrication

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



No.	Item	Specification	Frequency
1	Hydraulic Reservoir	Mobile Fluid DTE 10, DTE 13 M, or AW32 Do not substitute other fluids as pump damage may result. Fill to the middle of the dipstick with platform in the stowed position.	Routine Maintenance Check hydraulic oil level every week Scheduled Maintenance Change yearly or every 600 hours, whichever occurs first
2	Hydraulic Cap Breather Filter	Breather Filter (Located inside Filler Cap)	Normal Conditions Change every six months or 300 hours, whichever occurs first Severe Conditionsvery dusty, exceptionally hot or exceptionally cold conditions Change every three months or 150 hours, whichever occurs first

Pre-Start Inspection Checklist

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

DO NOT use a damaged or malfunctioning machine.

Be sure that the operator's manual are complete, legible and in the storage container located in the platform.
Be sure that all decals are legible and in place. See Decals section.
Check for hydraulic oil leaks.
Check for battery fluid leaks.
Check the following components or areas for damage, improperly installed or missing parts and unauthorized modifications:
Electrical components, wiring and electrical cables
Battery connections
Hydraulic hoses, fittings, cylinders and manifolds
Battery pack and connections
Drive motors
Tires and wheels
Ground strap
Limit switches, alarm and beacon
Nuts, bolts and other fasteners
Platform entry gate
Safety arm
Platform extension
Scissor pins and retaining fasteners
Platform control joystick
Check entire machine for:
Cracks in welds or structural components
Dents or damage to machine
Be sure that all structural and other critical components are present and all associated fasteners and pins are in place and properly tightened
Be sure that the Component Tray is closed and latched and the batteries are properly connected.
NEVER perform work or inspection on the machine with the platform elevated without first blocking the scissor assembly with the



Maintenance Lock. See page 18 for instructions.

Frequent Inspection Checklist



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

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

Model Number	Serial Number	Hour Meter Reading
Perform all checks lis	sted on Pre-Start Inspection.	
Inspect the condition	of hydraulic fluid in the reservoir.	Oil should be a clear and amber in color.
Batteries	,	
Electrical wiring		
Tires and wheels		
Emergency stop		
Key switch		
Horn (if equipped)		
Drive brakes		
Drive speed - stowed	l	
Drive speed - raised		
Drive speed - slow		
Hydraulic oil analysis		
Tank venting system		

Additional maintenance requirements for severe conditions

If the machine is used in very dusty, exceptionally hot or exceptionally cold conditions, replace the Hydraulic Cap Breather Filter (under normal conditions replace every 6 months or 300 hours, whichever comes first).

Date _____ Inspected By

Maintenance Inspection Report

SE & MICRO Series Scissors

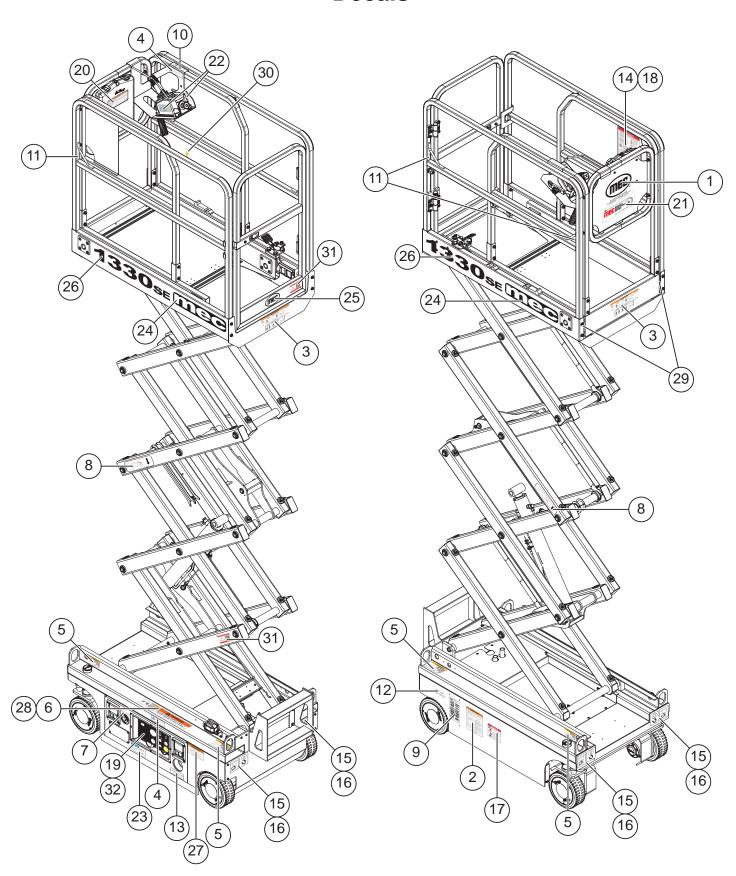
Fleet Equipment N	lumber		Date
Inspector Name		Inspector Co.	
Model Number		Address	
Serial Number			
Hour Meter		Signature	
Machine Owner &	address		
	Maintain all service records in	accordance w	ith ANSI A92.24-2019
•	receives an "N", remove from service. (per service manual for specific informat		
Key	Y = Yes, Acceptable N = No, Remove	e from Service	R = Repaired 0 = Not Applicable
	QUARTERLY - Inspect only those mar	ked "Q"	ANNUAL - Inspect all items

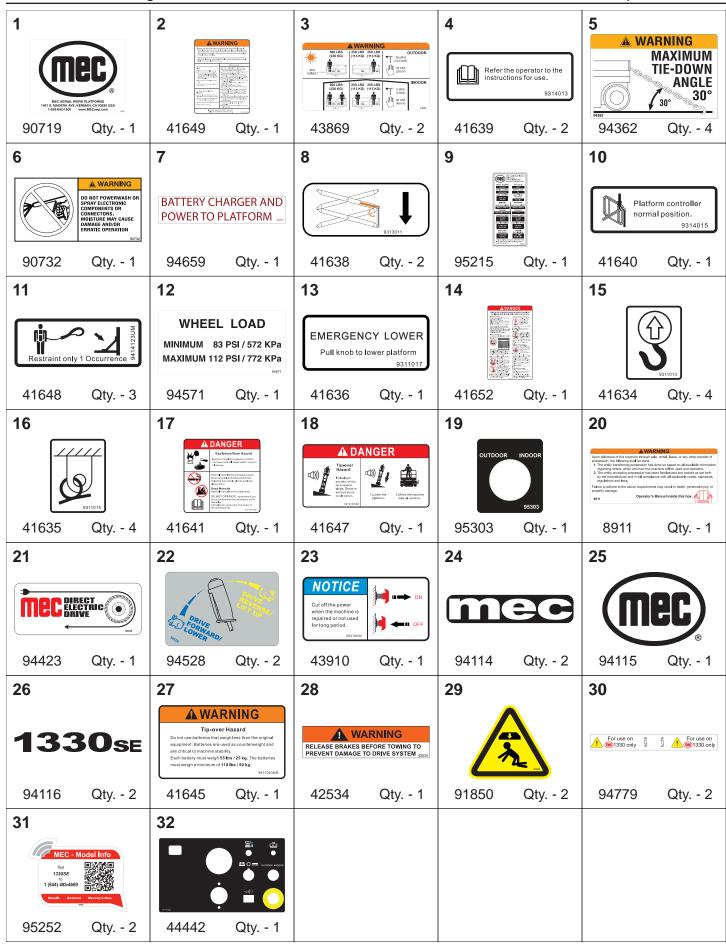
	Q/A	Y/N/O	R
DECALS:			
Legible - undamaged/readable	Q		
Capacity decal correct for model	Q		
RAILS:			
Not damaged, all in place	Q		
All rail fasteners secure	Q		
Entry gate secure, closes properly	Q		
Manual box in good condition	Q		
Operators Manual in manual box	Q		
PLATFORM EXTENSION:			
Rolls in and out freely	Q		
Lock holds deck in place	Q		
Release pedal moves freely (lube)	Q		
ELEVATING ASSEMBLY:			
Scissor Slide Blocks, lubed	Q		
Maintenance Stand, good Cond	Q		
Beam structures: Straight, no cracks	Α		
Welds: secure, no cracks	Α		
Retaining Rings	Α		
Cylinder Pins, secure	Α		
ELECTRICAL:			
GFCI operates correctly	Q		
Wire harnesses good cond, secure	Α		
Comm cable no damage, secure	Α		
BASE:			
Fasteners tight	Q		
Cover panels secure	Q		
Welds	А		

	Q/A	Y/N/O	R
WHEELS:			
Tire damage	Q		
Lug nuts (Wheel mounting) torqued correctly	Q		
King Pins lubed	Α		
COMPONENT AREA:			
Hydraulic - no leaks	Q		
Hydraulic tank, correct level	Q		
Hoses not damaged - Fittings tight	Q		
Valve manifold secure, no leaks	Q		
Power unit secure, no leaks	Q		
Batteries properly filled and cables clean	Q		
Emergency stop, cuts power/operation	Q		
Battery switch cuts battery feed	Q		
Plastic cover secure (door end 2632-4555 only)	Α		
Hydraulic tank, oil clean	Α		
Replace Hydraulic Filter (if equipped)	Α		
Clean or replace tank breather filter	Α		
OPERATIONAL INSPECTION:			
All functions, operate smooth and quiet	Q		
All functions, speeds correct.	Q		
Upper control box, operates correctly	Q		
Emergency Down, operates correctly	Q		
Limit switches slows drive when elevated	Q		
Pothole switch test	Q		
Steering pressure relief, set correctly	Q		
Lift pressure relief, set correctly	Q		
**Check Platform Overload Sensing operation	Q		

^{**}For machine equipped with Platform Overload Protection system only

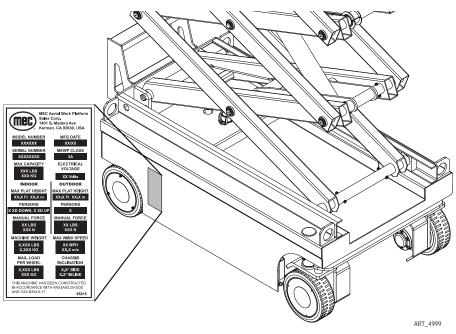
Decals





Serial Plate

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



Serial Plate Description

MODEL NUMBER: Identifies the machine.

MFG DATE: Month / Year of manufacture.

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

information or ordering parts.

MODEL YEAR: Machine model year.

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

platform at any elevation.

ELECTRICAL VOLTAGE: The voltage at which this machine operates.

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

surface to platform floor.

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

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

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

surface to platform floor.

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

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

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

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

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

installed. Fw = 30% (Wm + Wc + Wopt)

CHASSIS INCLINATION: The maximum amount of tilt for safe working conditions.



Troubleshooting

WARNING

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

- Master disconnect turned on?
- Batteries properly connected?
- Batteries fully charged?
- Key Switch in proper position?
- Both Emergency Stop Switches reset?
- Function Enable Switch not activated?
- Hydraulic fluid level low?
- Obvious fluid leak or damaged component?
- Wires disconnected, broken, or loose?
- Diagnostic panel on?
- Platform Control Box Fault Code present?
 - Refer to service manual or contact MEC Technical Support.

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.



Truck 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).

While loading and unloading, the transport vehicle must be parked on a level surface and secured to prevent rolling.

Loading Instructions

Free-wheel configuration for Winching or Towing

RUNAWAY HAZARD!



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

ALWAYS chock the wheels before manually releasing the brakes.

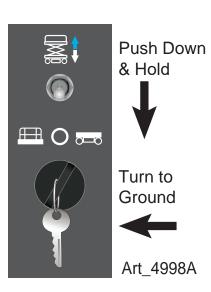
The machine can be winched or towed short distances at speeds not to exceed 2.5 MPH (4 km/h). Before towing or winching the machine, it is necessary to release the brakes. Reset the brakes after towing or winching.

Disengage Brakes before Towing or Winching

- 1. Chock the wheels.
- 2. Turn the Key Switch to the OFF position.
- 3. Set the red Emergency Stop buttons to the ON position at both the ground and platform controls.
- 4. At the Ground Controls panel, press and hold the Lift/Lower Switch to the DOWN position, then turn on the Key Switch to the "Ground" position.
- 5. Hold the Lift/Lower Switch in this position until a continuous alarm sounds, signalling that the brake has been released.

Resetting Brakes

1. Turn the Key Switch to the OFF position to reset the brake.





Driving or Winching onto or off of a Transport Vehicle



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.

Before loading or unloading the machine, check that:

- The deck extension, controls and component trays are secure.
- The platform is fully lowered.
- · All loose items have been removed.

Before driving or winching 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 Free-wheel configuration for Winching or Towing on page 30).
- Carefully operate the winch to lower the machine down the ramp.
- · Chock the wheels and engage the brakes.

Lifting The Machine With A Forklift

- Position the forklift forks in line with the forklift pockets.
- Drive forward to the full extent of the forks.
- Raise the machine 6 in / 15 cm and then tilt the forks back slightly to keep the machine secure.
- Be sure the machine is level when lowering the forks.

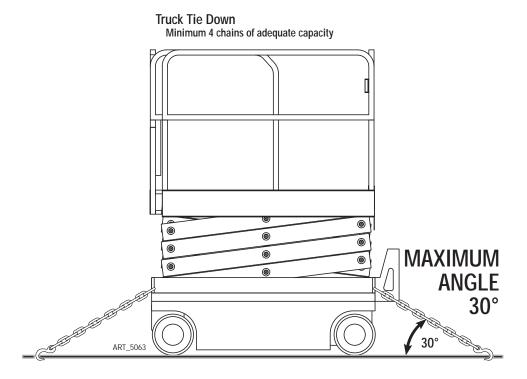
Securing to Truck or Trailer for Transport

- Turn the Key Switch to OFF and remove the key before transport.
- Inspect the entire machine for loose or unsecured items.
- Chock the wheels
- Use the tie-down points on the chassis for anchoring down to the transport surface.
- Use chains or straps of ample load capacity.
- Use a minimum of four (4) chains or straps.
- Adjust the rigging to prevent damage to the chains and the machine.





Ensure that angle of each hold-down chain or strap does not exceed 30° relative to the trailer deck.



Lifting Instructions

Only qualified riggers should rig and lift the machine.



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

- Fully lower the platform. Be sure the deck extension is retracted and the controls and component trays 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.



Notes



Notes



Notes





MEC Parts Order Form

Phone: 559-842-1523 **Fax:** 559-400-6723

Email: Parts@mecawp.com

Please Fill Out Completely:

Account:		ered By: Fax No.: Ship to:		
	Numbera Purchase Order Number	Ship VIA**Fed Ex shipments require Fed Ex account num		
Part Number	Description		Quantity	Price
All back-ordered p unless noted below	arts will be shipped when available vi v:	a the same ship m	ethod as origina	al order
	Ship complete order only - No Backo Ship all available parts and contact c Other (Please specify)		ition of back-ord	dered parts
Signature				



Limited Owner Warranty

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



MEC Aerial Work Platforms

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