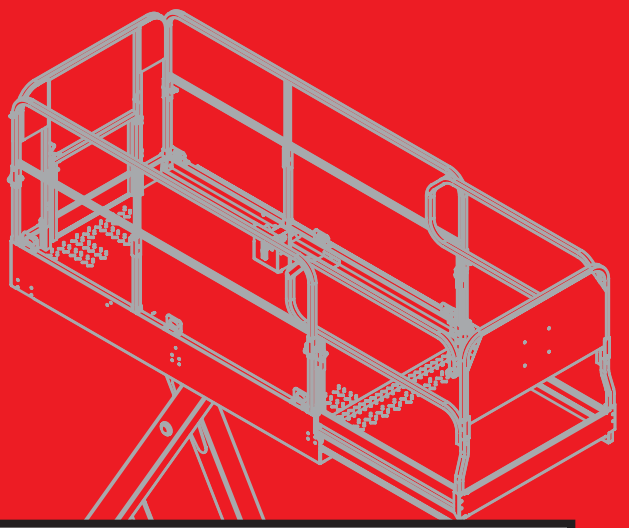
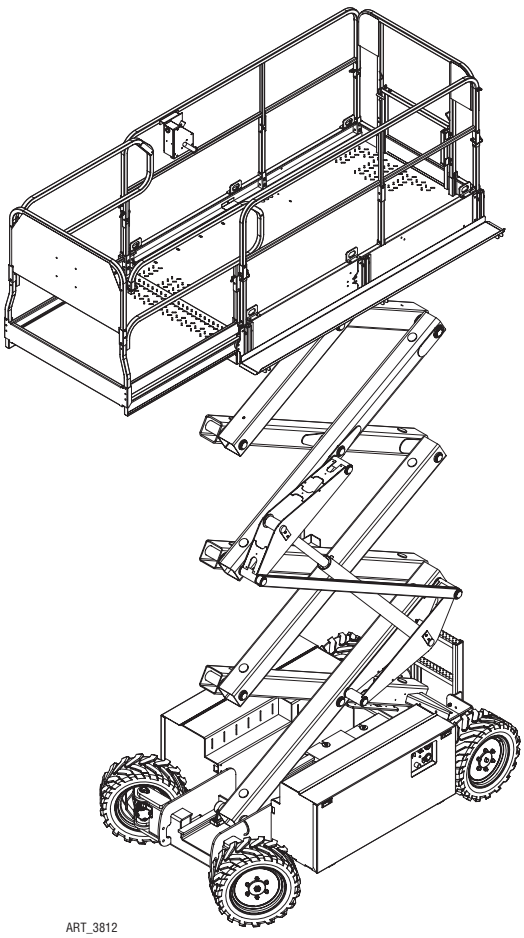





## Crossover Series

2659ERT -- Serial #13000001 - Up
3259ERT -- Serial #13100001 - Up

92708
Novmber 23, 2011

# Operator's Manual

## CE/Australian Specifications



**Multiple patents pending.**

**Original Instructions**

# —Specifications—

| Crossover Series | | 2659ERT | | 3259ERT | |
|---|---|---|---|---|---|
| Working Height* | | 32 ft | 9.8 m | 38 ft | 11.6m |
| Platform Height | | 25.5 ft | 7.8 m | 31.5 ft | 9.6 m |
| Maximum Drive Height | | 25.5 ft | 7.8 m | 31.5 ft | 9.6 m |
| Stowed Height | Top Guardrail | 90 in. | 2.29 m | 96 in. | 2.44 m |
| | Rails Folded | 75 in. | 1.90 m | 82 in. | 2.09 m |
| | Platform Floor | 45 in. | 1.15 m | 51 in. | 1.30 m |
| Guardrail Height | | 43.5 in. | 1.10 m | 43.5 in. | 1.10 m |
| Toeboard Height | | 6 in. | 15 cm | 6 in. | 15 cm |
| Ground Clearance | | 6 in. | 15 cm | 6 in. | 15 cm |
| Machine Weight** (Unloaded, no outriggers) | | 6820 lb | 3090 kg | n/a | |
| Machine Weight** (Unloaded, with outriggers) | | 7320 lb | 3320 kg | 8040 lb | 3645 kg |
| Lift Capacity | Total | 1000 lb | 450 kg | 750 lb | 340 kg |
| | Platform | 750 lb | 340 kg | 500 lb | 227 kg |
| | Sheet Material Rack | 250 lb | 113 kg | 250 lb | 113 kg |
| Deck Extension Capacity | | 1 Person / 250lb (113 kg) | | 1 Person / 250lb (113 kg) | |
| Maximum Occupants | | 3 | | 2 | |
| Length-Stowed (Overall) | | 103 in. | 2.62 m | 103 in. | 2.62 m |
| Length-Stowed (Without Step) | | 105 in. | 2.67 m | 105 in. | 2.67 m |
| Platform Length (Extended) | | 133.5 in. | 3.39 m | 133.5 in. | 3.39 m |
| Platform Length (Retracted) | | 91 in. | 2.31 m | 91 in. | 2.31 m |
| Width (Overall) | | 59 in. | 1.5 m | 59 in. | 1.5 m |
| Platform Width (Outside) | | 46 in. | 1.17 cm | 46 in. | 1.17 cm |
| Sheet Rack Width | | 8 in. | 20 cm | 8 in. | 20 cm |
| Wheel Base | | 82 in | 2.1 m | 82 in | 2.1 m |
| Turning Radius--Inside | | 59 in. | 1.5 m | 59 in. | 1.5 m |
| Ground Clearance | | 6 in | 15 cm | 6 in | 15 cm |
| Drive Speed (Proportional) | Stowed | 0-3.2 mph | 0-5 km/h | 0-3.0 mph | 0-4.8 km/h |
| | Raised or extended | 0-.4 mph | 0-.65 km/h | 0-.4 mph | 0-.65 km/h |
| Gradability | | 33%/18.3° | | 30%/16.7° | |
| Breakover Angle | | 30%/16.7° | | | |
| Ground Pressure/Wheel (no outriggers) | | 97 psi | 6.7 kg/cm$^2$ | n/a | |
| Ground Pressure/Wheel (with outriggers) | | 103 psi | 7.1kg/cm$^2$ | 116 psi | 8 kg/cm$^2$ |
| Ground Pressure/Outrigger (if equipped) | | 40 psi | 2.8 kg/cm$^2$ | 43 psi | 3 kg/cm$^2$ |
| Maximum Wheel Load (no outriggers) | | 2350 lb | 1065 kg | n/a | |
| Maximum Wheel Load (with outriggers) | | 2495 lb | 1130 kg | 2635 lb | 1195 kg |
| Maximum Operating Wind Speed | | 28 mph / 12.5 m/sec (45 km/h) | | | |
| Tire Size | | 23" x 10" / .58m x .25m | | | |
| Tire Pressure - n/a | | Foam-Filled | | | |
| Lug Nut Torque | | 130 ft/lb | | 176 Nm | |
| Hydraulic Pressure | Lift System | 2400 psi / 165 bar | | | |
| | Steer System | 1500 psi / 103 bar | | | |
| Hydraulic Fluid Capacity | | 14 gal / 64 liter | | | |
| Power System Voltage | | 48 Volt DC† | | | |
| Battery Charger | Input | 100-240 V AC, 50-60 Hz, 12 Amp | | | |
| | Output | 48 Volt DC, 20 Amp, Automatic Shut-off† | | | |
| Batteries | | Eight 6-Volt deep cycle; 250 Ah @ 20 hour rating† | | | |
| Motor | | 8 HP (6kW), 3600RPM 48V Motor† | | | |
| Maximum Vibration | | does not exceed 2.5 m/sec$^2$ at operator's position | | | |
| Ambient Operating Range | | -30° C minimum; 50° C maximum | | | |
| Sound Pressure Level At Workstations | | does not exceed 70 dB(A) | | | |

Meets requirements of CE EN280:2001 + A2:2009 and Australian Standard AS/NZS1418.10:2011. *Working Height adds 6 feet (2 m) to platform height. **Weight may increase with certain options or country standards. †Machines prior to serial numbers 13000032 (2659ERT) and 13100028 (3259ERT) use 36V systems. Contact MEC Customer Service for information.

# 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.

**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 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 Platform Sales Corp.**
1401 South Madera Ave • Kerman, CA 93630 USA
Ph: 1-877-635-5438 • 559-842-1500 • Fax: 559-842-1522
www.mecawp.com

# Safety

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

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

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

**NEVER perform work or inspection on the machine with the platform elevated without first blocking the scissor assembly with the Maintenance Lock (see page 28).**

## Safety Alert Symbols

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

DANGER

***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.***

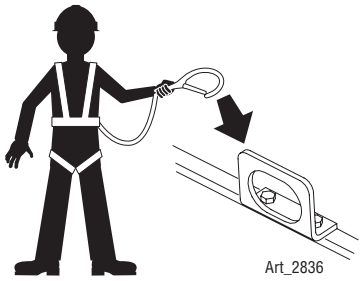
CAUTION

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

NOTICE

***GREEN – Indicates operation or maintenance information.***

## Fall Protection


Art_2836

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.

# Electrocution Hazard

**DANGER**

***ELECTROCUTION HAZARD!!! THIS MACHINE IS NOT INSULATED!***

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

***Observe Minimum Safe Approach Distance.***

Art_2824

Art_2823

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

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

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

Personnel in the platform:

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

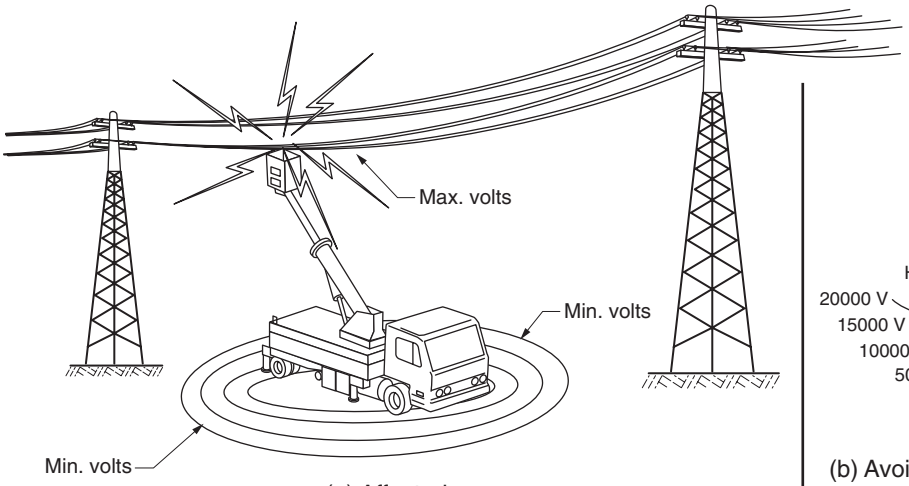
Personnel on the ground:

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

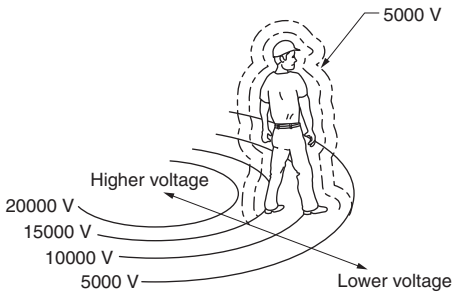
Do not operate the machine during electrical storms or lightning.

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

## Minimum Safe Approach Distance

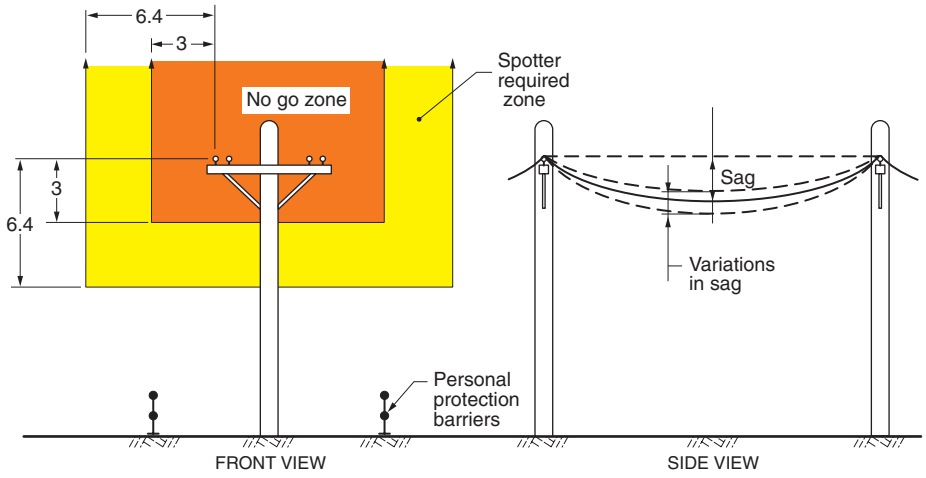



(a) Affected area

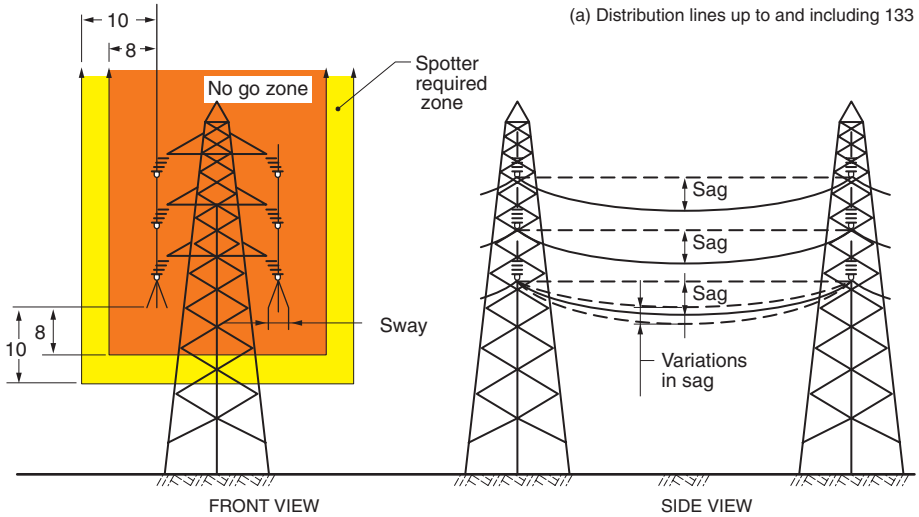



(b) Avoid simultaneous contact across areas of high potential difference

CLEARANCES FROM LIVE AERIAL CONDUCTORS




(a) Distribution lines up to and including 133 kV




(b) Transmission lines greater than 133 kV

LEGEND

= No shading, in the front views, indicates no proximity requirements

= Light shading indicates spotter is required

= Heavy shading indicates the NO GO ZONE

ART_3265

# Tip-over Hazards

Art_2828

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.

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

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

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

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

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

Maximum Allowable Side Force -- CE

| 1 person | 2 or more persons |
|---|---|
| 200 N | 400 N |

Art_2834

**DO NOT DRIVE ON IRREGULAR OR UNSTABLE SURFACE**

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. Maximum size of material on the Sheet Material Rack is 4' x 8' (1.2m x 2.4 m) for outdoor wind loading.

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

DO NOT exceed the Sheet Materials Rack maximum capacity of 250 lbs (113 kg). Ensure material is secure.

Art_2833

**DO NOT PUSH OR PULL OBJECTS OUTSIDE PLATFORM**

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.

Art_2831

**DO NOT ELEVATE IN WINDY CONDITIONS**

Art_2832

**DO NOT USE AS CRANE**

## Fall Hazards

Art_2826

**DO NOT CLIMB ON RAILS**

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

DO NOT exit the platform when elevated

Keep the platform floor clear of debris.

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

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

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

Art_2825

**DO NOT EXIT PLATFORM WHEN ELEVATED**

## Collision Hazards

Art_2835

Check path before moving for:

- Equipment, materials or other obstructions.
- Overhead obstructions.
- 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 PROHIBITED.

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

Art_2829

Art_2827

# 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

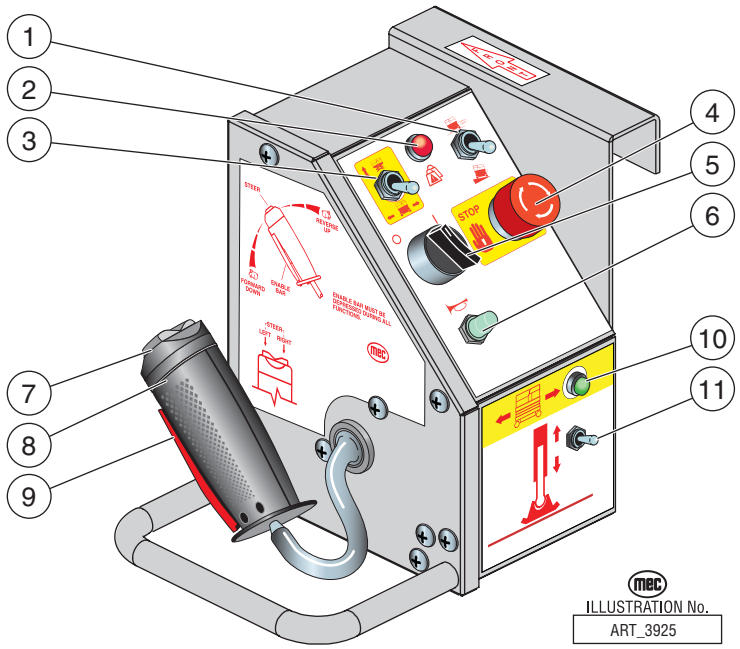
Keep sparks, flame and lighted tobacco away from batteries. Batteries emit explosive gas.

## Electrocution Hazard

Avoid contact with electrical terminals.

# Controls & Components

## Platform Controls

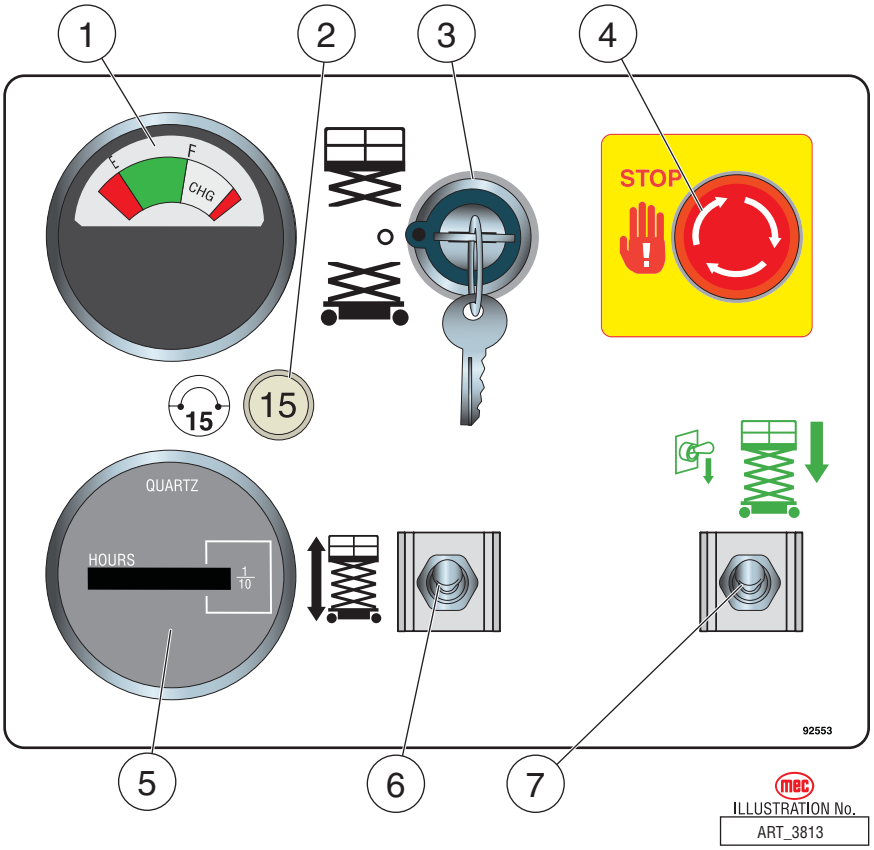



**WARNING**

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

| CONTROL | | DESCRIPTION | |
|---|---|---|---|
| 1 | Speed/Torque Selector Switch | Move this switch to the up for high speed drive. Push this switch to down for high torque drive. | |
| 2 | Overload Indicator Light | Platform overloaded when light is ON.<br>An audible alarm will sound and all machine functions will stop.<br>Remove weight from the platform to restore function and continue. | |
| 3 | Lift/Drive Switch | Move this switch UP to enable the Lift function. Move this switch DOWN to enable the Drive function. | |
| 4 | Emergency Stop Switch | Press the EMERGENCY STOP switch at any time to stop all machine functions.<br>Turn switch *clockwise* to reset | |
| 5 | On/Off Switch | This switch turns power ON or OFF at the platform (does not affect the Lower Controls) | |
| 6 | Horn Button (Option) | Press to sound warning horn. | |
| 7 | Steer Switch | Using your thumb, press and hold the rocker switch to steer Left or Right. | |
| 8 | Control Handle | DRIVE | Proportionally controls Forward and Reverse travel. |
| | | LIFT | Proportionally controls Lift and Lower functions. |
| 9 | Enable Bar | Squeeze to enable DRIVE, STEER, and LIFT functions from the Joystick. | |
| 10 | Drive Enable Indicator (Outrigger Option) | Lamp ON<br>Lamp OFF | Outriggers are retracted and machine will drive.<br>Outriggers are extended and machine will not drive. |
| 11 | Extend/Retract (Outrigger Option) | Push the toggle switch DOWN to extend the outriggers. Continue pushing down until the outriggers stop automatically. Push the toggle switch UP to retract the outriggers. | |

# Lower Controls

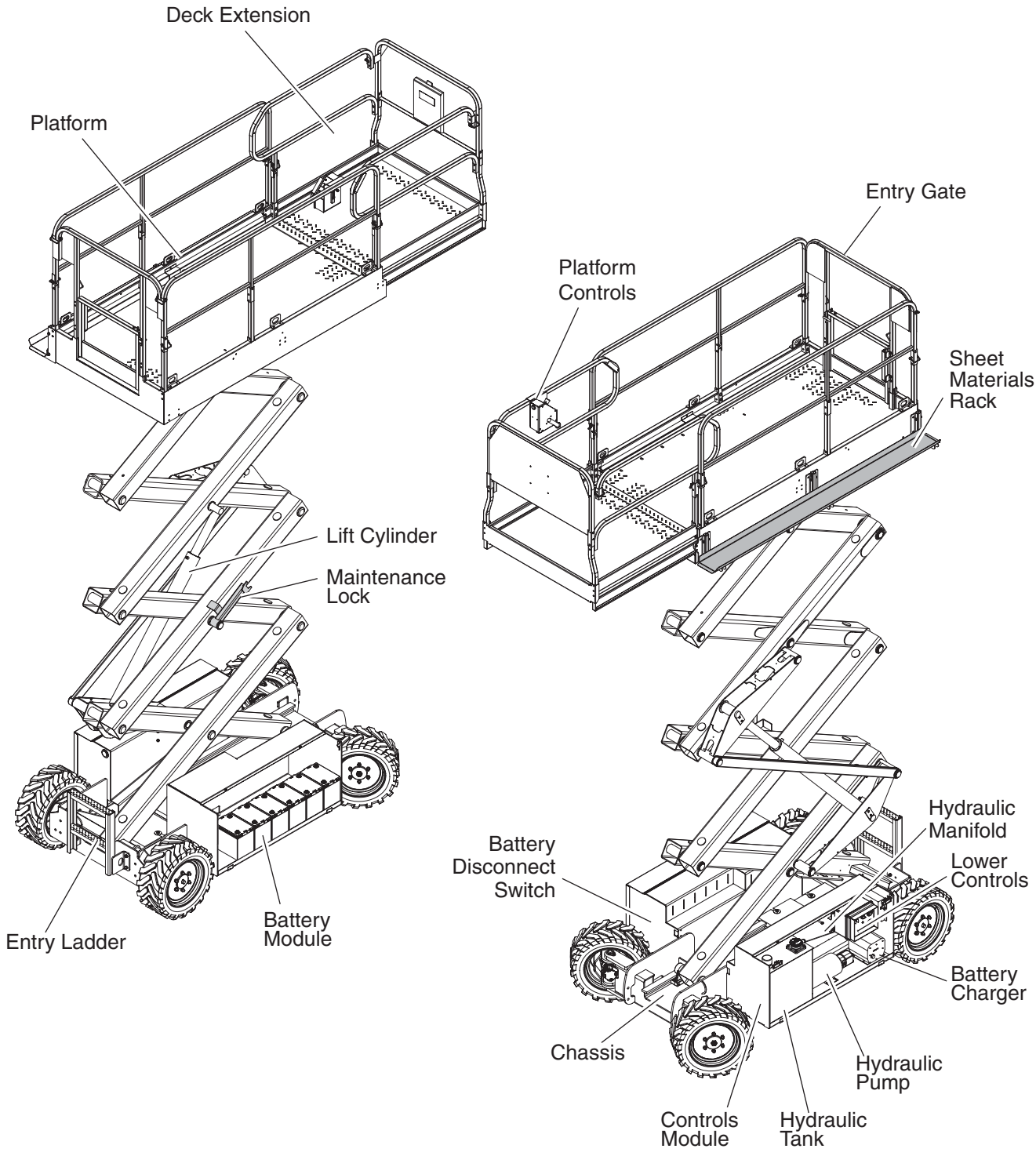



**WARNING**

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

| CONTROL | | DESCRIPTION | |
|---|---|---|---|
| 1 | Battery Charge Indicator | Indicated the state of the battery charge. | |
| 2 | Circuit Breaker | Trips when there is excessive electrical load. Push to reset. | |
| 3 | 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. |
| 4 | Emergency Stop Switch | Press the EMERGENCY STOP switch at any time to stop all machine functions.<br>Turn switch *clockwise* to reset | |
| 5 | Hour Meter | Indicates total elapsed time of machine operation. | |
| 6 | Platform Lift/Lower Switch | With the Selector Switch in the BASE position, move this switch up to lift the platform or down to lower the platform. | |
| 7 | Emergency Down Switch (3259 only) | Move this switch down to lower the platform in the event of an emergency or power loss. | |

# Component Locations




Module Covers removed for clarity ART_3815

# 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 & Function Tests

**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.

## Prestart

- Perform *Prestart Inspection* (*see page 31).*

- Check Emergency Stop Switches at both the base and platform controls – turn clockwise to reset.

ART_3817

# Base Controls Operation and Test

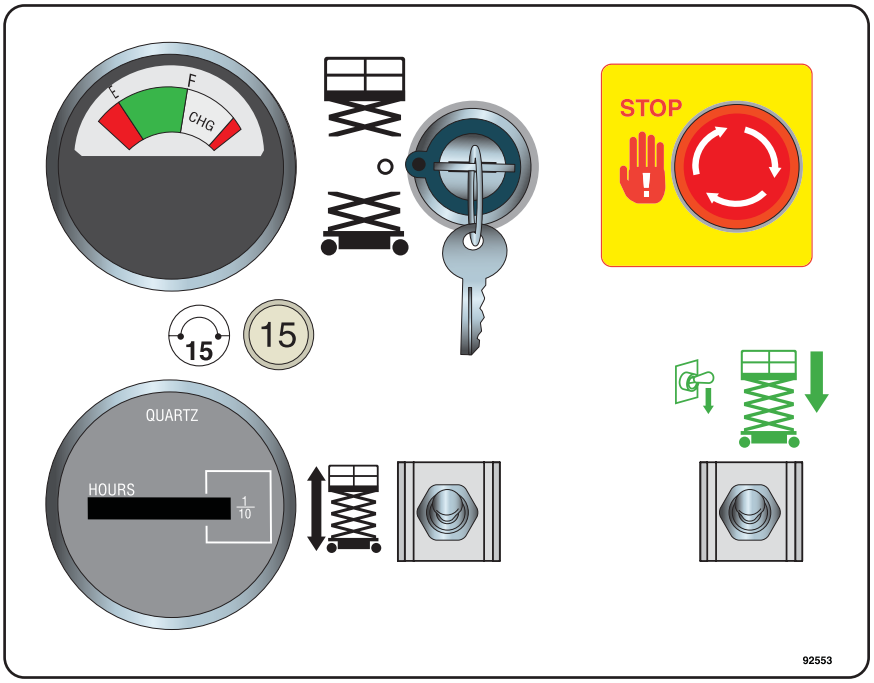



ILLUSTRATION No.
ART_3818

**WARNING**

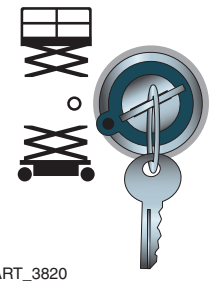
***Check the area above and around the machine for obstructions before operating the machine. The machine must have space to allow full elevation of platform.***

## Emergency Stop


ART_3817

- Press the Emergency Stop Switch at any time to stop all machine functions.
- Turn switch *clockwise* to reset.

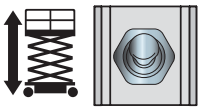
## Select BASE Operation



ART_3820

- Turn the Selector Key Switch to BASE.

## Lift/Lower



ART_3822

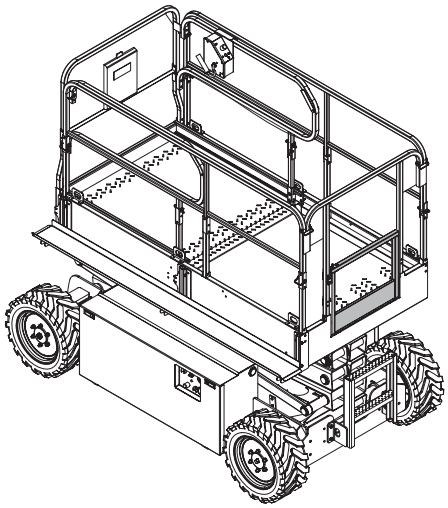
- Press and hold the Lift/Lower switch on the base control panel to lift or lower the platform.
- When lowering, the automatic armguard cutout will stop the platform at approximately 2.5 meter platform height. Verify that there are no hazardous conditions and that no other persons are touching the machine. After a five second delay lowering may resume.

### Test Operation

- Raise the platform until it stops. Platform should lift to full height.
- Lower the platform until it stops. Platform should stop at approximately 2.5 meter height.
- Verify that there are no hazardous conditions and that no other persons are touching the machine. After a five second delay lowering may resume. Scissor assembly should close completely.
- Releasing the switch will stop Lift/Lower function.
- Pressing the Emergency Stop Switch will stop lift/lower function.

# Platform Control Operation and Test

## Entering The Platform



ART_3926

Personnel shall enter and exit the platform only at the Personnel Entry Gate.

Check that it is properly secured before operation.

## Platform Control Panel

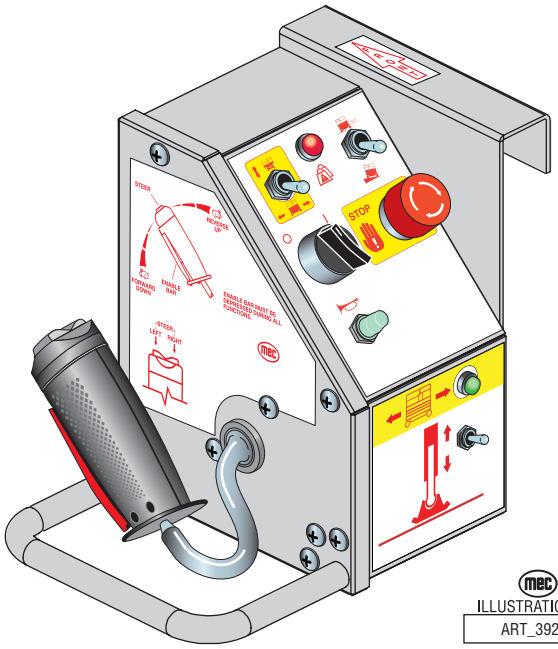



ILLUSTRATION No.
ART_3927

**IMPORTANT**—Before moving, 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.

## Platform Operations Test

### Emergency Stop

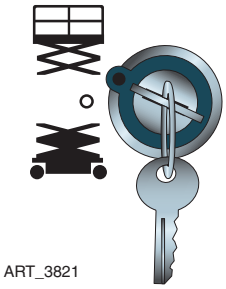

ART_3823

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

**WARNING**

***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.***

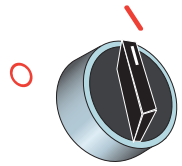
### Select PLATFORM Operation



ART_3821

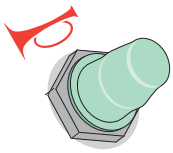
- **Base Controls:** Turn the selector switch to PLATFORM.

## Operate from Platform



ART_3826

- Enter the platform through the personnel entry gate. Close and secure the entry.
- Turn the platform selector switch to the ON position.



ART_3824

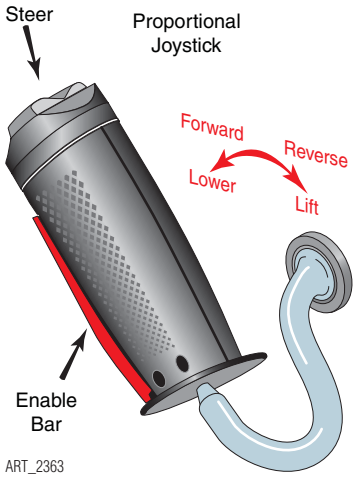
- Press the Horn Button (if equipped) to verify proper operation.

## Tilt Indicator Light

ART_3928

- Light ON indicates too much weight on the platform.
- An audible alarm will sound and all machine functions will stop. Remove weight from the platform to restore function and continue.

# Control Lever Operation



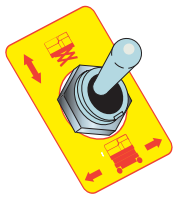
ART_2363

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

**WARNING**

***Do not elevate platform unless guardrails are installed and secure .***

***If the platform fails to lower DO NOT attempt to climb down the elevating assembly. Serious injury may result – see Pothole Protection Bars on page 21.***


ART_3828

## Elevate Platform

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

### Test Operation

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

## Lower Platform

- Place the MODE SELECT switch in the LIFT position.
- Move the control lever away from you.
- At approximately 2.5 meter platform height the automatic armguard cutout will stop the platform. Verify that there are no hazardous conditions and that no other persons are touching the machine. After a five second delay lowering may resume.

### Test Operation

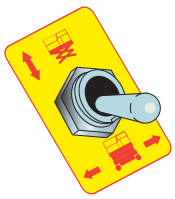
- Rate of descent is fixed - platform lowers at same rate regardless of handle position.
- At approximately 2.5 meter platform height the automatic armguard cutout will stop the platform. Verify that there are no hazardous conditions and that no other persons are touching the machine. After a five second delay lowering may resume.
- 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



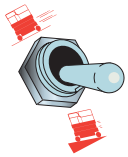
ART_3827

- 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)

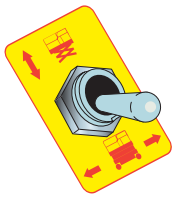


ART_3829

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

- HIGH SPEED: allows higher drive speeds for travel across flat ground.
- HIGH TORQUE: use to drive up or down a slope that is too steep for normal speed.

## Drive Forward



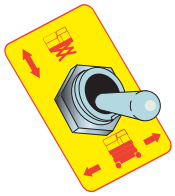
ART_3827

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

### Test Operation

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

## Drive Reverse



ART_3827

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

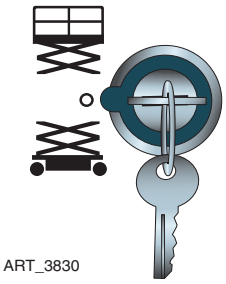
### Test Operation

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

## Brake

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

## Shutdown Procedure

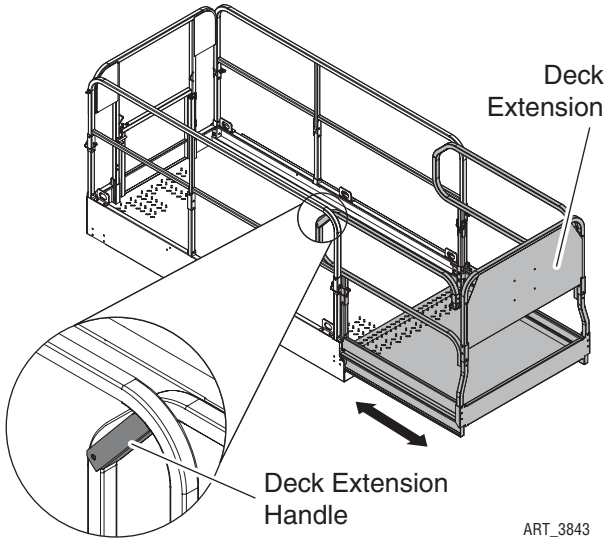

ART_3830

- When finished with the machine, place the platform in the stowed position.
- Park the machine on a level surface.
- Turn the Selector 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.
- Always put the switch in OFF position when leaving the machine at the end of the work day.

## Deck Extension

**WARNING**

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

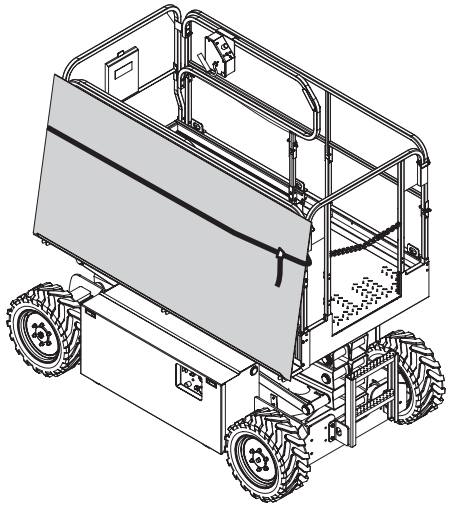



- Squeeze the handle at the rear of the extension deck to raise the spring-loaded pin from the locked position.
- With handle raised, push the deck out to the desired extended length and release the handles for the spring-loaded pin to lock into position.
- Extensions can be achieved in intervals of 6 inches (15 cm) throughout the entire length of the roll-out extension deck.

## Sheet Materials Rack

**WARNING**

***DO NOT exceed the Sheet Materials Rack capacity of 250 lbs (113 kg).***
***DO NOT allow any personnel to stand below the machine when the Sheet Materials is in use.***
***Fasten the material securely with straps until use.***



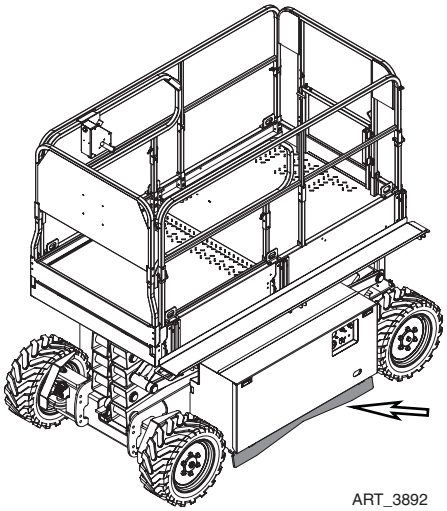
ART_3846

This machine is equipped with a Sheet Materials Rack. Up to 250 lbs (113 kg) of sheet material may be secured outside the platform to this rack. Maximum size of material on the Sheet Material Rack is 4' x 8' (1.2m x 2.4 m) for outdoor wind loading. All material should be centered on the Sheet Materials Rack.

Fasten the sheets to the platform with straps until ready to use. Attach the straps to the guardrail of the main platform only. DO NOT fasten the straps to the deck extension guardrail.

Use caution when driving the machine or elevating the platform when the Sheet Material Rack is loaded.

## Pothole Protection Bars



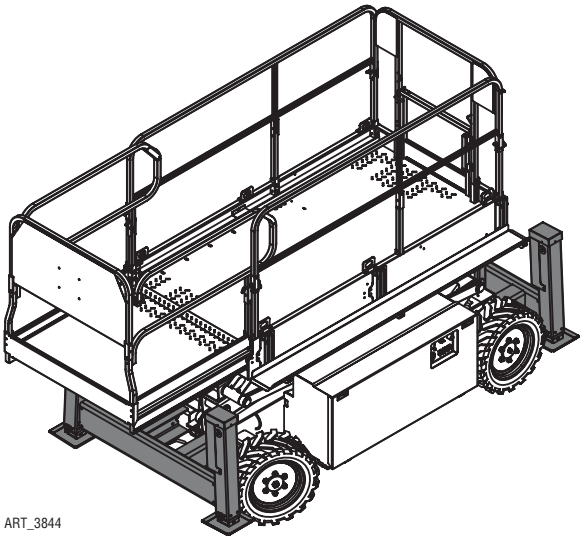
ART_3892

This machine is equipped with Pothole Protection Bars. These are activated electronically, are hydraulically actuated and lock into place. A limit switch confirms full deployment.

Pothole Protection Bars deploy when the platform reaches 20 ft (6 m) height and drive is initiated.

Confirm proper operation of the Pothole Protection Bars during the Pre-Start Inspection. DO NOT use this machine if the Pothole Protection Bars do not function properly.

# Outrigger Operation (optional on 2659)


ART_3844

Lower the outriggers only when the machine is on a firm surface. The surface must be capable of supporting the maximum ground pressure per wheel/outrigger (see Specifications).

The Outrigger Control Switch is located on the front face of the Upper Control Box.

**WARNING**

***Check that all ground personnel are clear of the machine before deploying the outriggers.***

## Extend

Push and hold the Outrigger Control Switch DOWN to extend the outriggers.

- The outriggers will extend and level the machine. When the machine is level and ready to operate, the outriggers will stop automatically.
- The Drive Enable Indicator Lamp will turn OFF, indicating that the outriggers are extended and that machine drive function is disabled.

## Retract

Push and hold the Outrigger Control Switch UP to retract the outriggers.

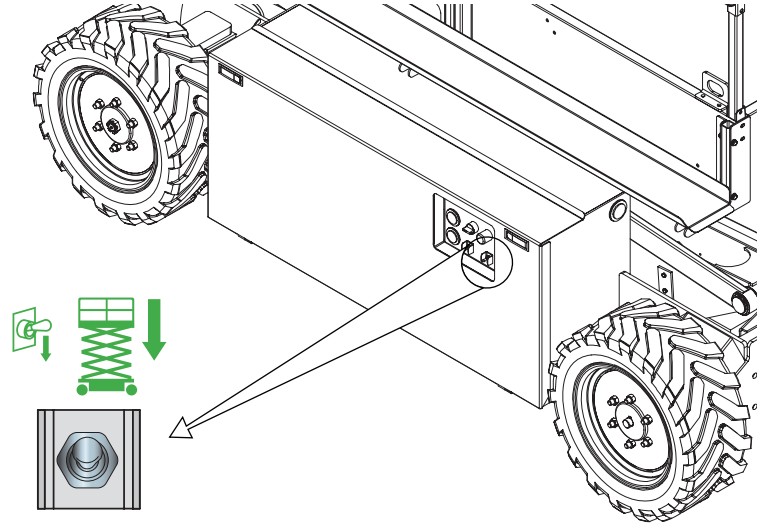
- The outriggers will retract.
- The Drive Enable Indicator Lamp will turn ON, indicating that the outriggers are retracted and that machine drive function is enabled.

# Emergency Lowering System

**WARNING**

***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.***

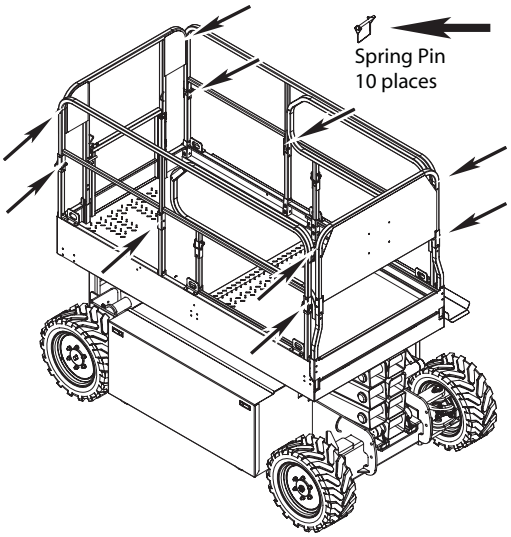


ART_3838

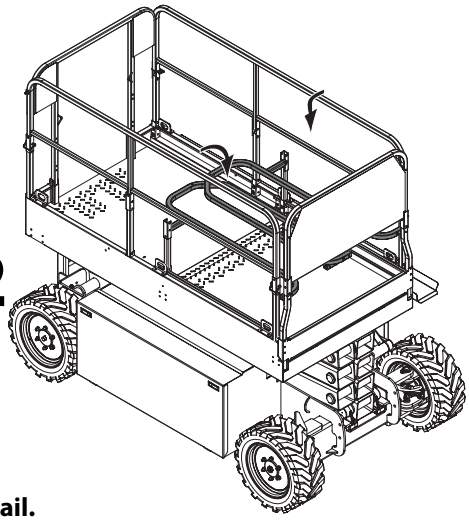
The Emergency Lowering System is used to lower the platform in case of power failure.

To lower the platform, push down on the Emergency Lowering Switch, located at the Lower Control Box.

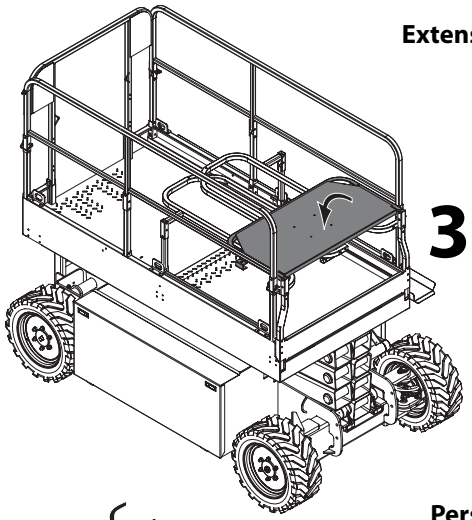
# Fold Down Platform Railings



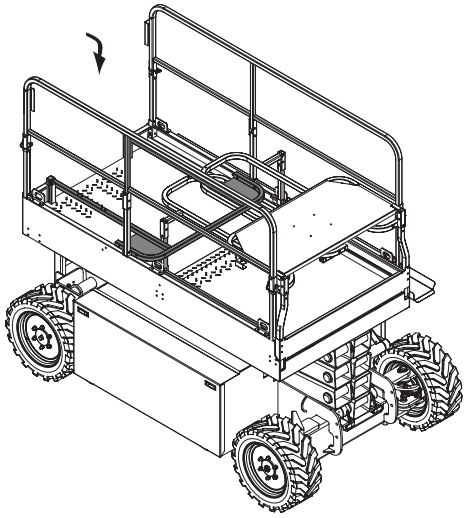

**1** **Remove the spring pins as needed to perform the following steps.**



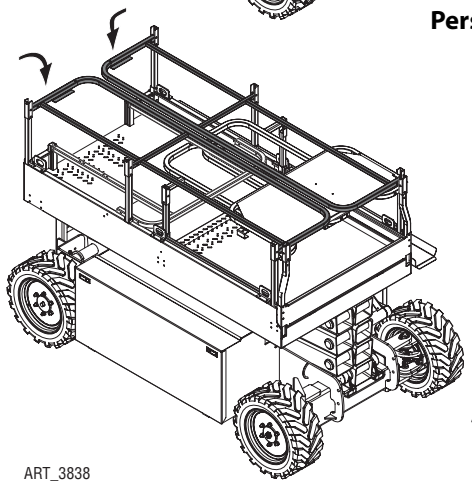
**Fold down the Extension Deck side rails.** **2**



**3** **Fold down the Extension Deck front rail.**



**Fold down the Personnel Entry rail.** **4**



**5** **Fold down the Main Deck side rails.**

ART_3838

**To return the machine to normal operation mode:**
- **Lift all rails into their upright position, then secure them with spring pins**
- **Check that the Personnel Entry closure functions properly**
- **Position the platform control box on the front right rail of the machine.**

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

# Battery Charger

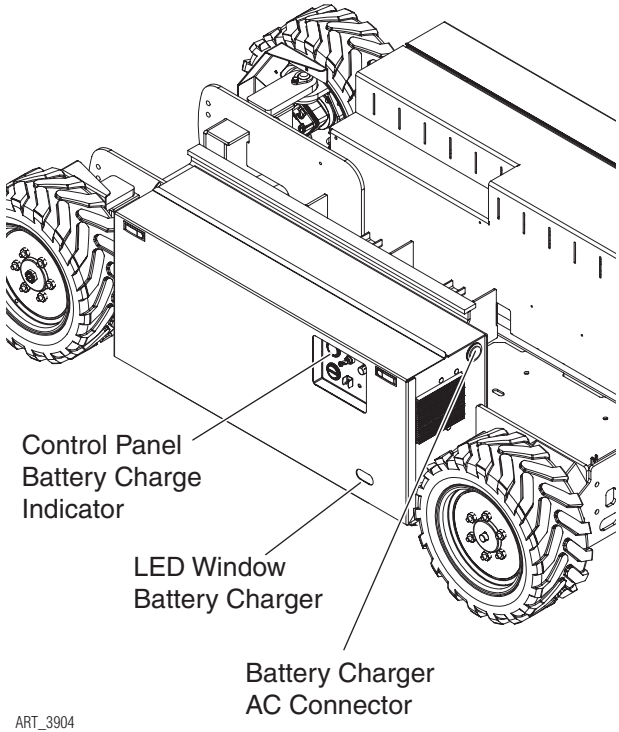
The charger is an advanced, microprocessor controlled, high frequency switching type charger.

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

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

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

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



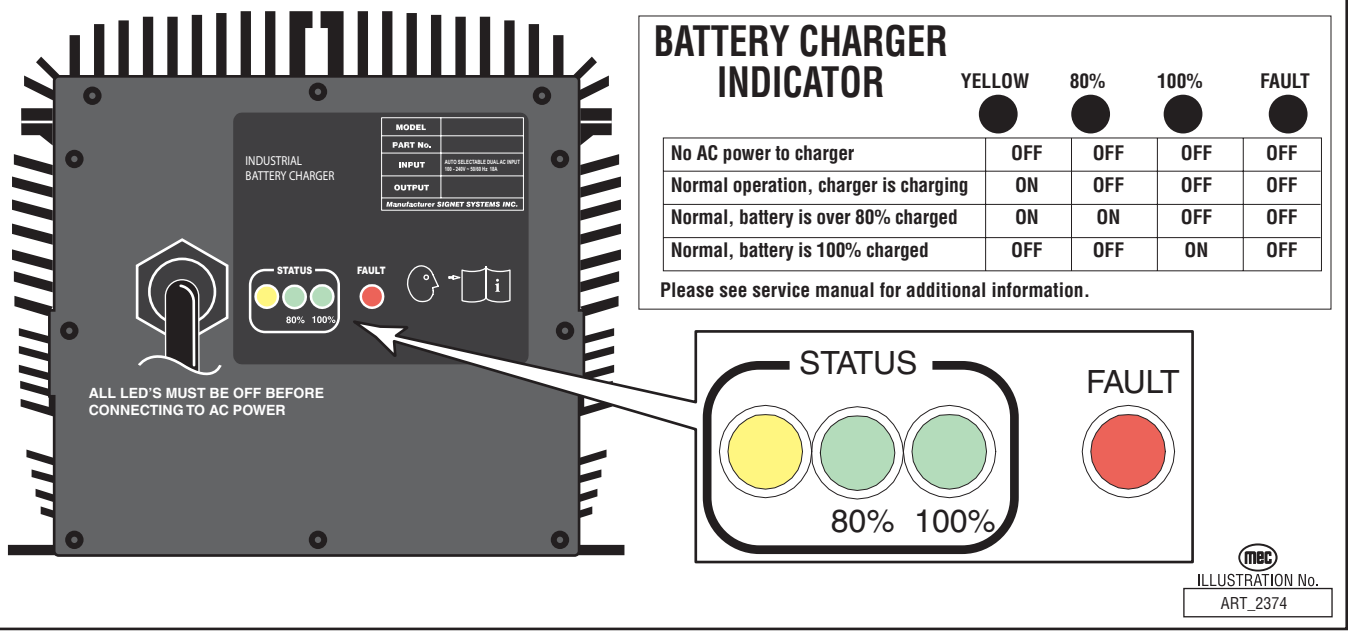

**WARNING**

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

***No Smoking!***

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

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



## Charge Batteries

1 Plug the charger into a single phase AC socket with a nominal voltage rating of 100V, 110V, 115V, 120V, 220V, 230V, or 240V and a frequency rating of 50 or 60Hz.

- The charger automatically senses and adjusts to the AC voltage and frequency.
- At 110/120V the wall socket circuit breaker should be a 20A breaker with no other loads on the circuit.

2 The charger will start automatically within a few seconds and begin charging the batteries.

3 The LEDs indicate the charging progress.

- The yellow LED will turn *ON* and remain *ON* throughout the charging cycle.
- When the battery is 80% charged the green 80% LED will turn *ON*.
- When the battery is fully charged the green 100% LED will turn *ON* and the green 80% LED will turn *OFF*.
- When the battery is fully charged the yellow LED will turn *OFF* indicating that the charger is no longer charging.

Charging time is dependent on depth of battery discharge, battery condition, and temperature.

If the charger is left plugged in after charging is complete (100% LED *on*) the charger goes into maintenance mode to keep batteries charged while in storage.

The charger continuously measures battery voltage and restarts the charging cycle if the battery voltage drops below about 50V. This keeps batteries charged while in storage but does not boil-out the electrolyte over time.

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

**Red FAULT LED**

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

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

# 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.**

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.

Use only manufacturer-approved parts to repair this machine.

**DANGER**

***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.***

**WARNING**

***NEVER perform work or inspection on the machine with the platform elevated without first blocking the scissor assembly with the Maintenance Lock (see page 28).***

***Failure to perform scheduled maintenance at recommended intervals may result in injury or death. 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.***

**CAUTION**

***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

**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 31.

## Frequent and Annual Maintenance

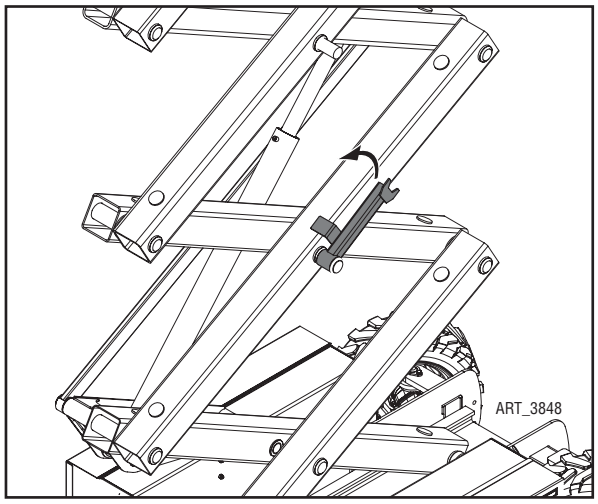
Frequent Inspection Checklists and Annual Inspection Reports must be completed by qualified service technicians trained and authorized to perform maintenance on this machine, and must be done in accordance with the procedures outlined in the service manual. Scheduled maintenance inspection checklists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

## Maintenance Lock

**WARNING**

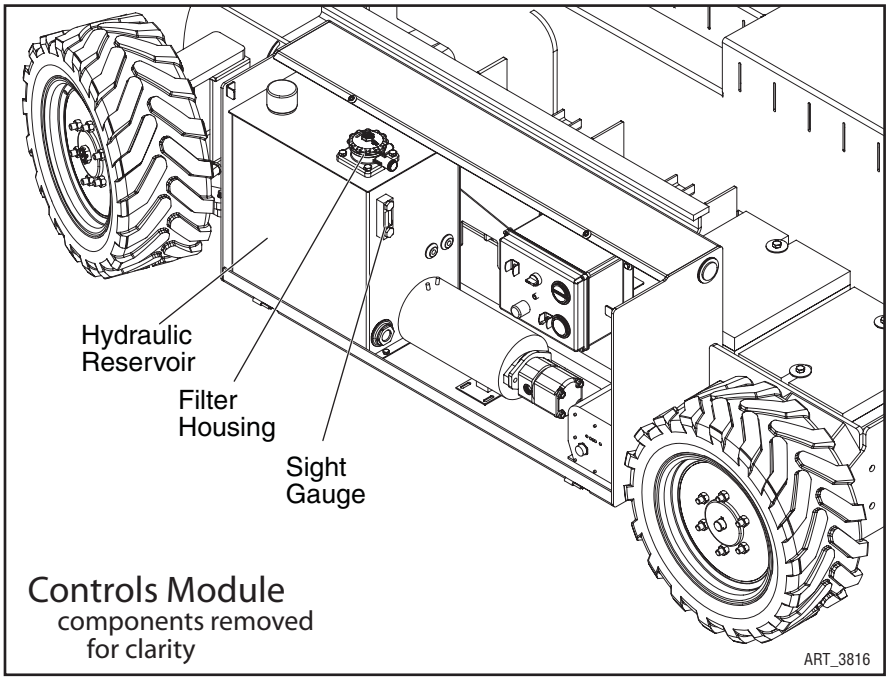
***NEVER perform work or inspection on the machine with the platform elevated without first blocking the scissor assembly with the Maintenance Lock.***




To set the Maintenance Lock, raise the platform enough to allow the Maintenance Lock to rotate to vertical. Carefully lower the platform until the pin above rests securely on the Maintenance Lock.

# Lubrication

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




**Lubrication**

| No. | ITEM | SPECIFICATION | FREQUENCY |
|---|---|---|---|
| 1 | Hydraulic Reservoir | Mobile Fluid DTE 10, DTE 13 M, or AW32<br><br>**Do not substitute other fluids as pump damage may result.**<br>Fill to the middle of the sight gauge with platform in the stowed position and stabilizers retracted. | **Routine Maintenance**<br>Check sight gauge level daily<br>**Scheduled Maintenance**<br>Change yearly or every 600 hours, whichever occurs first |
| 2 | Hydraulic Filter | Filter Element<br>(located inside Hydraulic Reservoir) | **Scheduled Maintenance**<br>**Normal Conditions**<br>Change every six months or 300 hours, whichever occurs first<br>**Severe Conditions--very dusty, exceptionally hot or exceptionally cold conditions**<br>Change every three months or 150 hours, whichever occurs first |

# Machine Inspections and 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.

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**

***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.***

**WARNING**

***NEVER perform work or inspection on the machine with the platform elevated without first blocking the scissor assembly with the Maintenance Lock (see page 28).***

***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.***

**CAUTION**

***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.***

# 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.

| Initial | Description |
|---|---|
| _____ | Check that the operator's manual and manual of responsibilities 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; loose, 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 personnel entry for damage or modification. Check for missing spring pin retainers. |
| _____ | Check that all warning and instructional decals are present, legible and secure. |
| _____ | Check the tires for damage. |
| _____ | Check that all structural components, pins and fasteners are present and properly tightened. |
| _____ | Check for fluid leaks. |
| _____ | Check hydraulic fluid level (check with platform fully lowered). |
| _____ | Check that pothole protection bars deploy fully when the platform reaches 20 ft. (6 m) and drive is initiated. |
| _____ | Check that batteries are clean and secure. Check terminals for proper tightness. Check for corrosion. |
| _____ | Secure all covers, panels and guard rails. |
| _____ | Ensure that the personnel entry is properly closed and secured before operating the machine. |

# Frequent Inspection Checklist

**WARNING**

***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.***

***The frequency and extent of periodical examinations may depend on national regulations.***

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.

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

| Initial | Description |
|---|---|
| _____ | Perform all checks listed on Pre-Start Inspection. |
| _____ | Inspect the condition of hydraulic fluid in the reservoir. Oil should be a clear amber color. |
| _____ | Check battery electrolyte level and connections. |
| _____ | Check wheel lug nuts for proper torque (see “Machine Specifications”). |
| _____ | Check if tires are leaning in or out. |
| _____ | Inspect all structure 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. |
| _____ | Check all wire connections for tightness and corrosion. |
| _____ | Check outriggers (if equipped) for proper operation. |
| _____ | 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 security. |
| _____ | Check the electrical mounting and hardware connections for security. |
| _____ | Check the steering kingpins for excessive play. |

## Additional maintenance requirements for severe conditions

| | |
|---|---|
| _____ | If the machine is used in very dusty, exceptionally hot or exceptionally cold conditions, replace hydraulic filter element (under normal conditions replace every 6 months or 300 hours, whichever comes first). |

**DATE**_____**INSPECTED BY** _____

# Annual Inspection Report

## Annual Inspection Report

**MEC Aerial Platform Sales Corp.**
1401 S. Madera Avenue • Kerman, CA 93630 USA
800-387-4575 • 559-842-1500 • Fax: 559-842-1522

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

Customer _____
Street _____
City/State/Zip _____
Phone Number _____
Contact _____

Dealer _____
Street _____
City/State/Zip _____
Phone Number _____
Contact _____

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

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

| | Y | N | R | U | | Y | N | R | U | | Y | N | R | U |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Decals: | | | | | Base: | | | | | Operation: | | | | |
| 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 | | | | |
| 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 Pressure Set | | | | |
| 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 Lubed (4WD) | | | | | Fuel Lines Secure | | | | |
| Wire Harnesses: | | | | | Axle Lock Operational | | | | | Fuel Lines Free Of Leaks | | | | |
| Mounted Correctly | | | | | Component Area: | | | | | Fuel Tanks Secure | | | | |
| 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 | | | | |
| 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 | | | | |
| Rollers Turn Freely | | | | | Secure | | | | | Warning Horn | | | | |
| Maintenance Locks: | | | | | Operational | | | | | Generator | | | | |
| Secure | | | | | Emergency Stop: | | | | | Converter | | | | |
| Operational | | | | | Breaks All Circuits | | | | | | | | | |

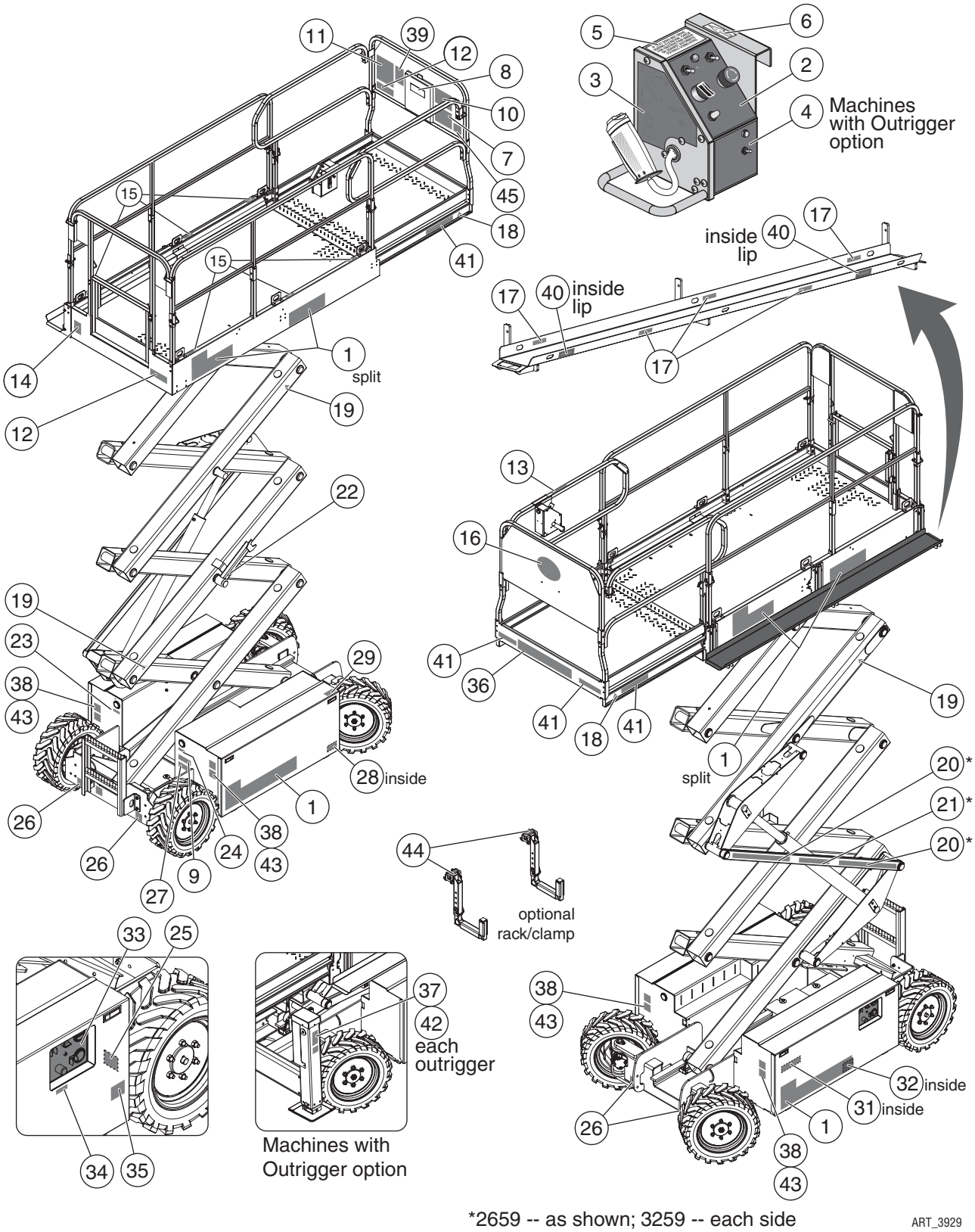
Comments: _____

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

P/N 90728 Rev. 3

# Warning and Instructional Decals

All warning and instructional decals must be present, legible and secure.

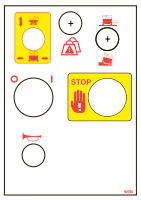


## Decals (continued)

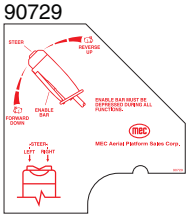
1 92842 (2659) 4 Places
mec CROSSOVER 2659 ERT

1 92843 (3259) 4 Places
mec CROSSOVER 3259 ERT

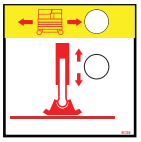
2 92766




3 90729




4 91730 (Option)

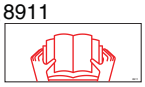


5 90735
IF UNIT DOES NOT DRIVE DURING ELEVATION, CHECK FOR OBSTRUCTION UNDER OR AGAINST AUTOMATIC POTHOLE STABILIZERS

6 7156
FRONT

7 90730
WARNING

8 8911

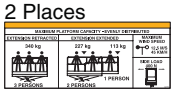


9 92054
Multiple Patents Pending

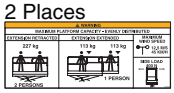
10 90721
DANGER

11 90722
WARNING

12 92761 (2659) 2 Places



12 92764 (3259) 2 Places



13 7155
LOCATE CONTROL BOX HERE
FOR NORMAL OPERATION OF THIS UNIT

14 90739
MADE IN USA

15 8605 (option) 6 Places
CERTIFIED LANYARD ANCHORAGE POINT

16 90719
mec

17 92762 5 Places
WARNING
MATERIAL RACK CAPACITY 113 KG

18 91850 2 Places

19 9910 3 Places

20 7982 2 Places*

21 8503*
KEEP CLEAR

22 90717
MAINTENANCE LOCK
REFER TO PARTS AND SERVICE MANUAL FOR PROPER USE

23 90750
BATTERY CHARGER

24 90751
POWER TO PLATFORM

25 90732
WARNING
DO NOT POWERWASH OR SPRAY ELECTRONIC COMPONENTS OR CONNECTORS. MOISTURE MAY CAUSE DAMAGE AND/OR ERRATIC OPERATION

26 11026730 4 Places

27 92768

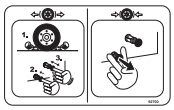
28 90726
WARNING
- EACH REPLACEMENT BATTERY MUST WEIGH A MINIMUM OF 60 POUNDS / 27,3 kg
- FAILURE TO MEET MINIMUM WEIGHT REQUIREMENT MAY CAUSE MACHINE INSTABILITY.

29 8779
WARNING
BATTERIES PRODUCE EXPLOSIVE GAS. CHARGE BATTERIES IN WELL VENTILATED AREA
DO NOT EXPOSE TO SPARKS OR FLAMES.

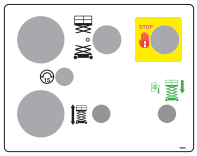
30 not used

31 6873
HYDRAULIC OIL

32 92700



33 92681



34 92709 (2659)
PLATFORM CAPACITY 340kg

34 92710 (3259)
PLATFORM CAPACITY 227kg

35 91956
BATTERY CHARGER INDICATOR

| | YELLOW | 80% | 100% | FAULT |
|---|---|---|---|---|
| No AC power to charger | OFF | OFF | OFF | OFF |
| Normal operation, charger is charging | ON | OFF | OFF | OFF |
| Normal, battery is over 80% charged | ON | ON | OFF | OFF |
| Normal, battery is 100% charged | OFF | OFF | ON | OFF |

*Please see service manual for additional information.

36 92416
www.mecawp.com

37 9465 (Option) 4 Places
DANGER
STAND CLEAR
OUTRIGGER CONTACT WILL CAUSE SERIOUS CRUSHING INJURY

38 90725 4 Places
WARNING
- REPLACE TIRES WITH MANUFACTURER'S EQUIPMENT ONLY.
- FAILURE TO USE MANUFACTURER'S TIRES MAY CAUSE MACHINE INSTABILITY.
- REFER TO SERVICE AND PARTS MANUAL FOR REPLACEMENT PART NUMBER.

39 91325 Australia only
DANGER
MINIMUM CLEARANCES FROM POWER LINES

40 92769 2 Places
NO STEP

41 7982 cut short to fit 4 Places

42 92773 (2659 w/ outriggers) 4 Places
MAX 2495 lbs 1130 kg

42 92774 (3259) 4 Places
MAX 2635 lbs 1195 kg

43 92770 (2659 no outriggers) 4 Places
MAX 2350 lbs 1065 kg

43 92772 (3259) 4 Places
MAX 2635 lbs 1195 kg

43 92771 (2659 w/ outriggers) 4 Places
MAX 2495 lbs 1130 kg

44 92848 (Option) 2 Places
WARNING
PIPE RACK CAPACITY 125 LBS EACH/250 LBS TOTAL.
SHEET MATERIAL RACK MAY NOT BE USED WHEN PIPE RACK IS IN USE

45 8606
WARNING
- LANYARD ANCHORAGE POINTS ARE RECOMMENDED FOR WORK POSITIONING RESTRAINTS ONLY.

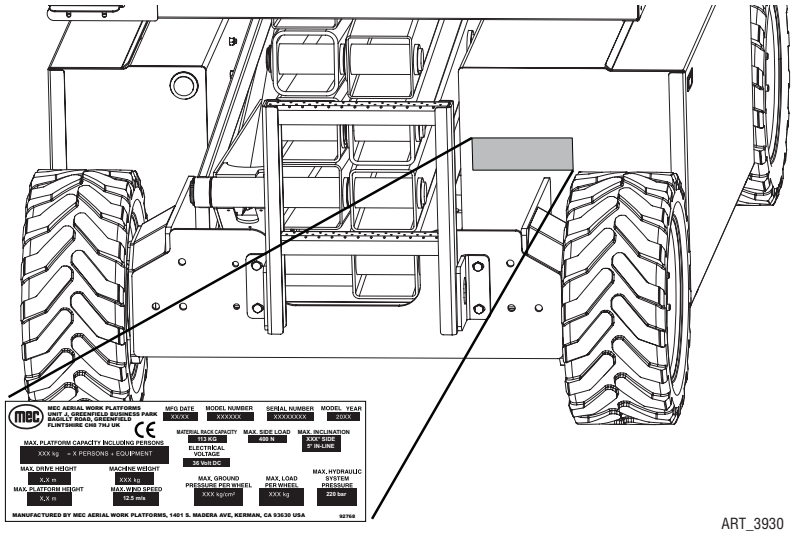
USE OF FALL ARREST SYSTEMS ATTACHED TO ANCHORAGE POINTS ON MOBILE EQUIPMENT MAY CAUSE MACHINE TO TIP, RESULTING IN SERIOUS INJURY OR DEATH.

ILLUSTRATION No.
ART_3924

*2659 -- as shown; 3259 -- each side

## 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.




ART_3930

## Serial Plate Description

| | |
|---|---|
| **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. PLATFORM CAPACITY INCLUDING PERSONS** | The maximum safe load (material, persons + equipment) which can be correctly placed on the platform at any elevation. |
| **MATERIAL RACK CAPACITY** | The maximum safe load of sheet materials that may be loaded on the Sheet Material Rack. |
| **ELECTRICAL VOLTAGE** | The voltage at which this machine operates. |
| **MAX. SIDE LOAD** | The maximum safe force that the occupant can exert laterally on an object outside the platform. |
| **MAX. INCLINATION** | The maximum inclination on which the lift function of the machine may be safely operated. Both side and in-line inclinations are listed. |
| **MAX. DRIVE HEIGHT** | The maximum safe platform height at which the machine can be driven. |
| **MAX. PLATFORM HEIGHT** | The maximum attainable height measured from level ground surface to platform floor. |
| **MACHINE WEIGHT** | The weight of the machine with no options. |
| **MAX. WIND SPEED** | The maximum wind speed at which this platform may be safely operated. |
| **MAX. GROUND PRESSURE PER WHEEL** | The amount of pressure exerted on the surface at each wheel. Calculated with all available options installed.<br>Pmax = 30% (Wm + Wc + Wopt) / Contact Area |
| **MAX. LOAD PER WHEEL** | The maximum safe weight applied to each wheel. Calculated with all available options installed.<br>Fw = 30% (Wm + Wc + Wopt) |
| **MAX HYDRAULIC SYSTEM PRESSURE** | The maximum pressure at which this machine operates. |

# 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

- Batteries properly connected?
- Batteries fully charged?
- Circuit Breaker tripped?
- Function toggle switch or the Enable Bar 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 not ON or FLASHING, refer to Service Manual or contact MEC Technical Support.

# 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.***

***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).***

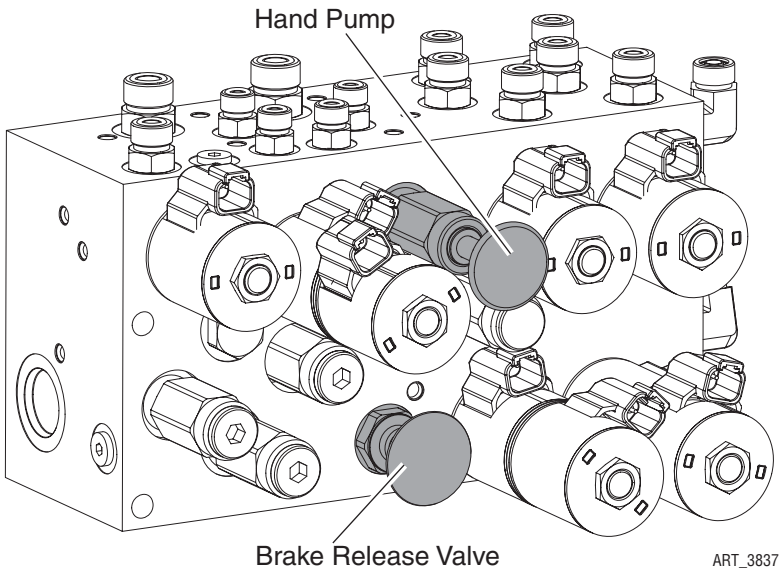
## Loading

### Free-wheel configuration for Winching or Towing.

**DANGER**

***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 5 MPH (8 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

- Chock the wheels.
- Press the Brake Release Valve, then press the Hand Pump button on the Functions Manifold repeatedly until the brakes release.

### Engage Brakes before Driving

The brakes reset automatically when the engine is started.

The brakes may be manually applied by pulling the Brake Release Valve out.

## Driving or Winching onto or off of a Transport Vehicle

**WARNING**

***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.

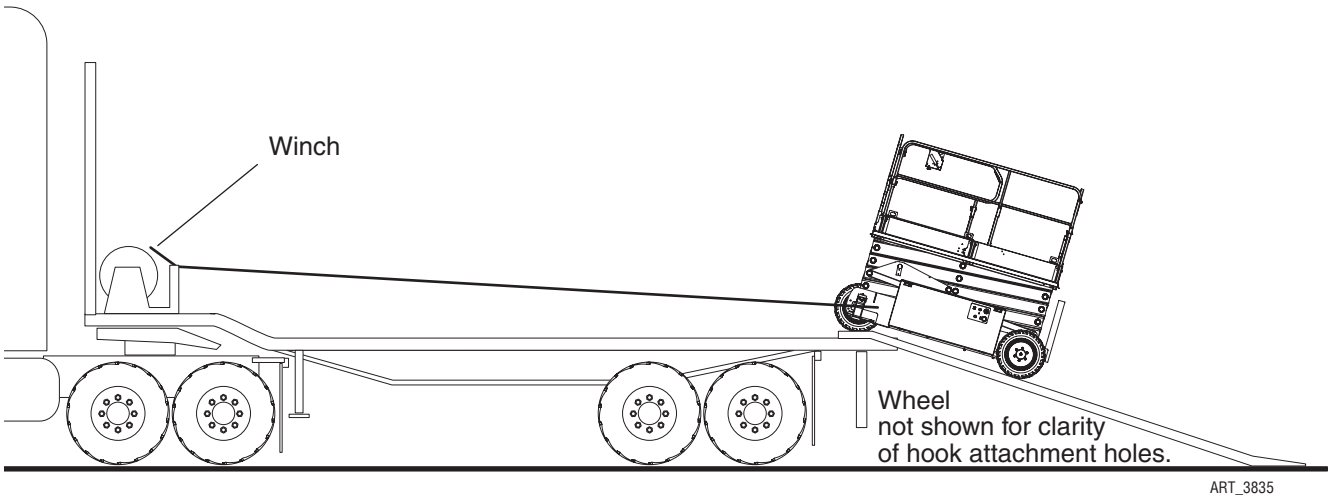
**Driving**

- 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 38).
- Carefully operate the winch to lower the machine down the ramp.
- Chock the wheels and engage the brakes.



# Lifting and Tie Down Instructions

## Lifting Instructions

**WARNING**

***Only qualified riggers should rig and lift the machine.***

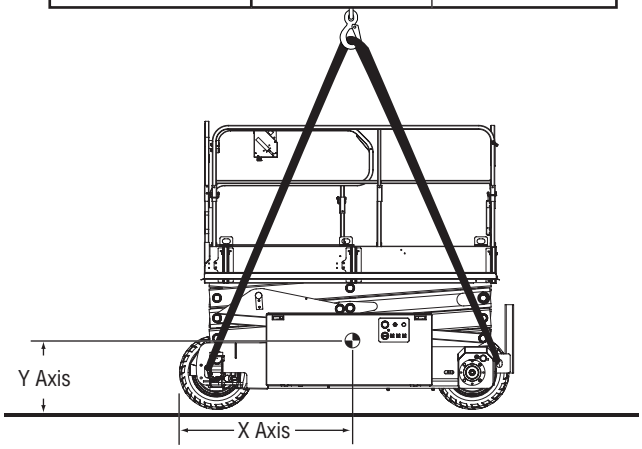
***Ensure that the crane capacity, loading surfaces and straps are sufficient to withstand the machine weight. See the serial plate for the machine weight.***

- Fully lower the platform. Be sure the deck extension 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

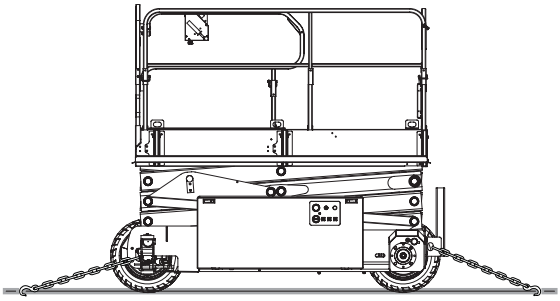
- Turn the key Selector Key Switch to OFF and remove the key before transport.
- Inspect the entire machine for loose or unsecured items.
- Use chains or straps of ample load capacity.
- Use a minimum of two (2) chains or straps.
- Adjust the rigging to prevent damage to the chains and the machine.

| Center of Gravity | X Axis | Y Axis |
|---|---|---|
| 2659 | 53.6” (144 cm) | 21.27” (54 cm) |
| 3259 | 53.6” (144 cm) | 23.27” (59 cm) |




ART_3388 Near-side wheels not shown for clarity.

**Truck Tie Down**
Minimum 4 chains of adequate capacity



Aerial Work Platforms

# MEC AERIAL PLATFORM SALES CORP
# EC DECLARATION OF CONFORMITY

| | | |
|---|---|---|
| Manufacturer: | **MEC AERIAL PLATFORM SALES CORP** | |
| Address: | 1401 South Madera, Avenue<br>Kerman, CA 93630<br>USA | European Representative<br>Unit J, Greenfield Business Park<br>Bagillt Road, Greenfield<br>Flintshire CH8 7HJ<br>UK |
| Machine Type: | Mobile Elevating Work Platform | |
| Model No: | 2659ES, 3259ES | |
| Serial Number: | 13000026 | |
| Notified Body: | Powered Access Certification Ltd<br>Id #545<br>P O Box 98<br>Windermere, Cumbria<br>LA23 1WF<br>UK | |
| Certificate No: | CE10/13562/PAC | |

Applicable Harmonized Standards: EN280: 2001 + A2:2009
We hereby declare that the above mentioned machine has been assessed, tested and approved in accordance with the requirements of the **Machinery Directive 2006/42/EC** using the document **Guide to application of the Machinery Directive 2006/42/EC** and taking guidance from **EN 280:2001 + A2:2009.**

This Product also complies with the Following European Directives:
EMC Directive 2004/108/EC

**Signed:** *Gary Crook* **Date: 24 August 2011**

**Names:** Gary Crook Position: Director of New Product Development
The above named person is empowered to sign on behalf of the above manufacturer.
Any modification to the above-described machine violates the validity of this declaration.

Powered Access Certification Ltd, PO Box 98, Windermere, Cumbria, LA23 1WF, UK
EC Notified Body Number 0545

# EC Type Examination Certificate

| | |
|---|---|
| Certificate Number | CE10/13562/PAC |
| Test Report Summary Number | CE10/13562/TRS464 |
| Technical File Number | TF/MEC/2359 |
| Manufacturer | MEC Aerial Work Platforms |
| Address | 1401 S.Madera Avenue<br>Kerman<br>CA 93630<br>USA |
| Authorised representative (if applicable) | MEC Europe<br>Unit J, Greenfield Business Park<br>Bagillt Road, Greenfield,<br>Flintshire, CH8 7HJ, UK. |
| Product type | Mobile Elevating Work Platform |
| Model | 2659ES |
| Serial number | 13000026 |

This is to certify that the above product and variant 3259ES have been assessed, tested and approved by Powered Access Certification Limited in accordance with the requirements of the European Council Directive 2006/42/EC on Machinery, as detailed in the above Test Report Summary. Guidance has been taken from the relevant European harmonised standards stated below. This certificate is subject to the company manufacturing in conformity with the approved technical file and informing PAC Limited of any modifications, even of a minor nature, made or planned to be made, to the above product.

| | |
|---|---|
| Relevant harmonised standards | BS EN 280:2001 + A2:2009<br>Mobile elevating work platforms<br>Design Calculations - Stability criteria – Construction - Safety - Examinations and tests |
| Date of Issue | 14th September 2011 |
| Date of Expiry | 14th September 2016 |

Signed ..... (Managing Director)

CE

## NOTES:

## NOTES:

# Limited Owner Warranty

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

**MEC Aerial Platform Sales Corp.**

1401 South Madera Ave • Kerman, CA 93630 USA
Ph: 1-877-632-5438 • 559-842-1500 • Fax: 559-842-1522
www.mecawp.com

**92708**
**Crossover Series**