

92555 June 1, 2012



# **Operator's Manual**

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# —Specifications—

32 ft							
	9.92 m	38 ft	11.75m				
eight*     32 ft     9.92 m     38 ft     11.75 m       eight     26 ft     7.92 m     32 ft     9.75 m       Drive Height     26 ft     7.92 m     32 ft     9.75 m							
				90 in.	2.29 m	96 in.	2.44 m
75 in.	1.90 m	82 in.	2.09 m				
45 in.	1.15 m	51 in.	1.30 m				
43.5 in.	1.10 m	43.5 in.	1.10 m				
6 in.	15 cm	6 in.	15 cm				
6065 lb	2750 kg	7360 lb	3338 kg				
			340 kg				
		U					
			225 kg 113 kg				
	_		•				
			2				
103 in	2.62 m	103 in	2.62 m				
			2.67 m				
			3.39 m				
			2.31 m				
			1.5 m				
			1.17 cm				
			20 cm				
			2.1 m				
			1.5 m				
			15 cm				
			0-4.8 km/h				
•		•	0-8 km/h				
05 mph 0-8 km/h 05 mph 0-8 km/h 35%/19° 31%/17°							
			717				
93 psi			7.3 kg/cm <sup>2</sup>				
-		_					
2120 10			1100 kg				
120		-	Nm				
130			ININ				
			_				
	•						
10.7							
	•						
		250 Ah @ 20 hour DRPM 48V Motor					
^							
	90 in. 75 in. 45 in. 43.5 in. 6 in. 6065 lb 1000 lb 750 lb 250 lb 1 Person / 25 103 in. 105 in. 133.5 in. 91 in. 59 in. 46 in. 8 in. 82 in 59 in. 6 in 0-3.2 mph 0-5 mph 35%	90 in. 2.29 m  75 in. 1.90 m  45 in. 1.15 m  43.5 in. 1.10 m  6 in. 15 cm  6065 lb 2750 kg  1000 lb 450 kg  750 lb 340 kg  250 lb 113 kg  1 Person / 250lb (113 kg)  3  103 in. 2.62 m  105 in. 2.67 m  133.5 in. 3.39 m  91 in. 2.31 m  59 in. 1.5 m  46 in. 1.17 cm  8 in. 20 cm  82 in 2.1 m  59 in. 1.5 m  6 in 15 cm  0-3.2 mph 0-5 km/h  0-5 mph 0-8 km/h  35%/19°  30%/  93 psi 6.5 kg/cm²  2120 lb 960 kg  28 mph / 12.5 m  23" x 10" / .  55  130 ft/lb  3200 psi  2400 psi  14 gal /  48 Vo.  100-240 V AC, 5  48 Volt DC, 20 Amp,	90 in. 2.29 m 96 in.  75 in. 1.90 m 82 in.  45 in. 1.15 m 51 in.  43.5 in. 1.10 m 43.5 in.  6 in. 15 cm 6 in.  6065 lb 2750 kg 7360 lb  1000 lb 450 kg 750 lb  750 lb 340 kg 500 lb  250 lb 113 kg 250 lb  1 Person / 250lb (113 kg) 1 Person / 250 lb  1 Person / 250lb (113 kg) 1 Person / 250 lb  1 Person / 250lb (113 kg) 1 Person / 250 lb  1 Person / 250lb (113 kg) 1 Person / 250 lb  1 Person / 250lb (113 kg) 1 Person / 250 lb  1 P				

Meets applicable requirements of ANSI A92.6-2006.

<sup>\*</sup>Working Height adds 6 feet (2 m) to platform height. \*\*Weight may increase with certain options.

<sup>†</sup>Machines prior to serial numbers 13000032 (2659ERT) and 13100028 (3259ERT) use 36V systems. Contact MEC Customer Service for information.

Crossover Series Introduction

#### 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.



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 Crossover Series Safety

# 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 ANSI/SIA A92.6-2006 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 A92.6-2006 must be performed at designated intervals as prescribed.

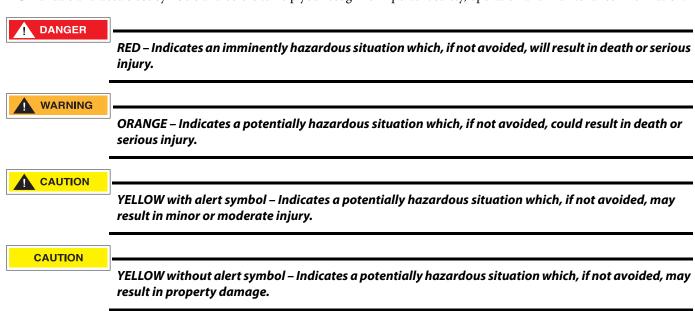
#### **California Proposition 65 Warning**

This product contains chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm.

#### **Safety Alert Symbols**

NOTICE

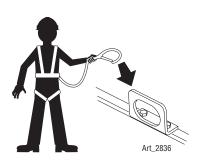
MEC manuals and decals use symbols and colors to help you recognize important safety, operation and maintenance information.



GREEN - Indicates operation or maintenance information.

Crossover Series Safety

#### **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.

#### **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

#### **Minimum Save Approach Distance**

Voltage	Minimum Safe Approach Distance				
Phase to Phase	Feet	Meters			
0 to 300 Volts	Avoid 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.

**Crossover Series** Safety

#### Tip-over Hazards







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





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.

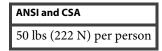
**Driving:** DO NOT drive the machine on a slope that exceeds the maximum uphill or downhill slope rating. Slope rating applies to machines in the stowed position.

**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



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 exceed the Sheet Materials Rack maximum capacity of 250 lbs (113 kg). Ensure material is secure.

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.

Page 5

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.

Crossover Series Safety

#### Fall Hazards



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

DO NOT exit the platform when elevated

Keep the platform floor clear of debris.

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

Ensure that 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.



#### **Collision Hazards**



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

Check path before moving for overhead obstructions.

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

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

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

Stunt driving and horseplay are PROHIBITED.

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





Crossover Series Safety

#### **Additional Safety Hazards**

#### **Explosion and Fire Hazards**

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

#### **Damaged Machine Hazards**

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

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

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

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

#### **Bodily Injury Hazards**

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

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

#### Weld Line to Platform Safety (if equipped)

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

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

DO NOT operate unless the weld cables are properly connected.

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**

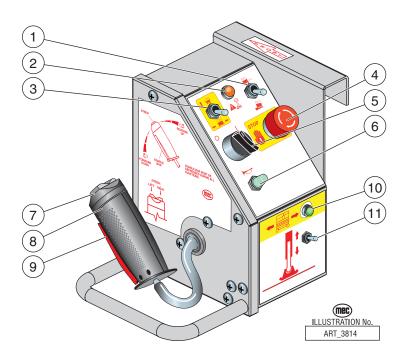
Keep sparks, flame and lighted tobacco away from batteries. Batteries emit explosive gas.

#### **Electrocution Hazard**

Avoid contact with electrical terminals.

# **Controls & Components**

#### **Platform Controls**

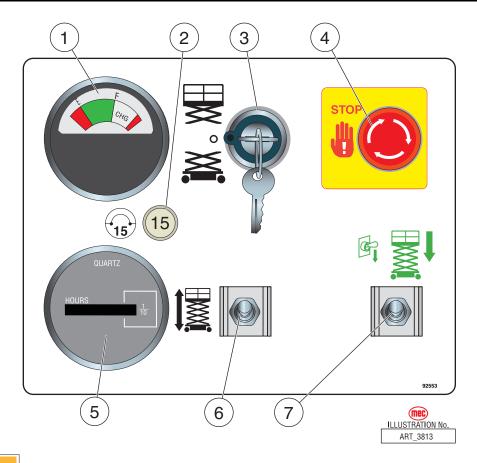




ALWAYS be aware of the machine's position and of your surroundings before activating any control function.

	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	Tilt Indicator Light	If illuminated, the m level surface.	achine is not level. Carefully lower the platform, then move the machine to a firm,		
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 EMERGEN Turn switch <i>clockwis</i>	NCY STOP switch at any time to stop all machine functions.		
5	On/Off Switch	This switch turns po	ower 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 D	RIVE, STEER, and LIFT functions from the Joystick.		
10	Drive Enable Indicator (Outrigger Option)	Lamp ON Lamp OFF	Outriggers are retracted and machine will drive. Outriggers are extended and machine will not drive.		
11	Extend/Retract (Outrigger Option)		ch DOWN to extend the outriggers. Continue pushing down until the outriggers Push the toggle switch UP to retract the outriggers.		

#### **Lower Controls**

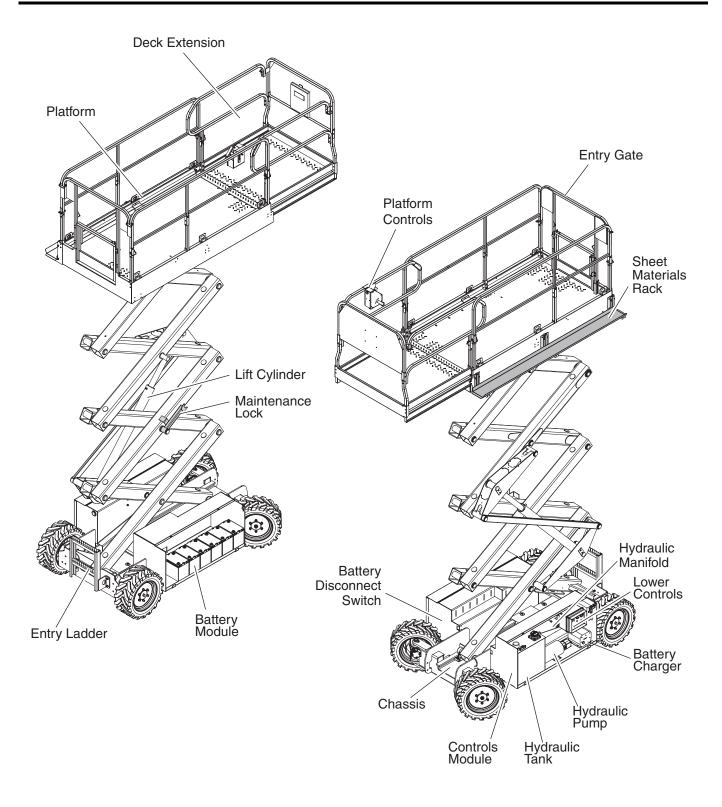




ALWAYS be aware of the machine's position and of your surroundings before activating any control function.

	CONTROL	DESCRIPTION	
1	Battery Charge Indicator	Indicated the st	rate of the battery charge.
2	Circuit Breaker	Trips when the	re 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 EMEI Turn switch <i>clo</i>	RGENCY STOP switch at any time to stop all machine functions.  ckwise to reset
5	Hour Meter	Indicates total	elapsed time of machine operation.
6	Platform Lift/Lower Switch	With the Select the platform.	or Switch in the BASE position, move this switch up to lift the platform or down to lower
7	Emergency Down Switch	Move this switc	ch down to lower the platform in the event of an emergency or power loss.

#### **Component Locations**



Module Covers removed for clarity ART\_3815

Crossover Series Workplace Inspection

# **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.

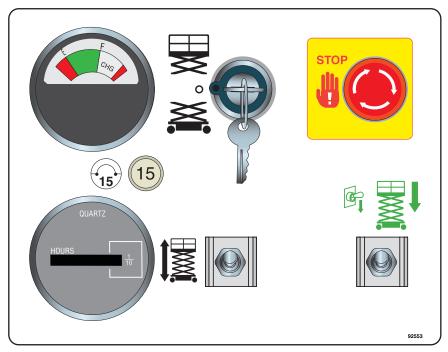


ART\_3817



Check Battery Disconnect Switch outside the Battery Module.
 Must be in ON position.

# **Base Controls Operation and Test**







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**



• Turn the Selector Key Switch to BASE.

#### Lift/Lower



ART 3822

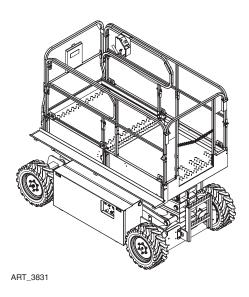
• Press and hold the Lift/Lower switch on the base control panel to lift or lower the platform.

#### **Test Operation**

- Raise the platform until it stops. Platform should lift to full height.
- Lower the platform until it stops. 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**



Personnel shall enter and exit the platform only at the Personnel Entry Gate. Check that it is properly secured before operation.

#### **Platform Control Panel**



**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**



- 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**

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



# A

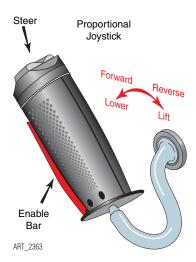
ART\_3825

#### **Tilt Indicator Light**

Light ON and alarm sounding indicates an unsafe condition.

• STOP. The machine is not level. Carefully lower the platform. Move the machine to a firm, level surface, or if equipped with outriggers, level the machine.

#### **Control Lever Operation**



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



Do not elevate platform unless guardrails are installed and secure. 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 22.



#### **Elevate Platform**

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

#### **Test Operation**

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

#### **Lower Platform**

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

#### **Test Operation**

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



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

**IMPORTANT**—Always check front steer wheel direction before driving.



#### **Steering**

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

#### **Test Operation**

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

# **Drive Torque (Speed Control)**



Drive speed is selectable until the platform is elevated above 10 Feet (3 m). When the platform is elevated the machine defaults to 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**



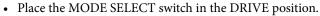
ART\_3827

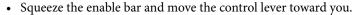
- Place the MODE SELECT switch in the DRIVE position.
- Squeeze the enable bar and move the control lever away from you.

#### **Test Operation**

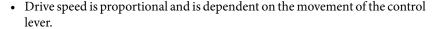
- Drive speed is proportional and is dependent on the movement of the control
- Releasing the enable bar or returning the control lever to the center position will stop drive.
- Pressing the EMERGENCY STOP switch will stop drive.

#### **Drive Reverse**





#### **Test Operation**



- 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\_3827

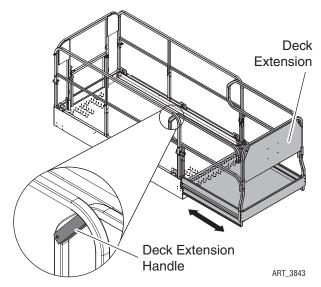


- When finished with the machine, place the platform in the stowed position.
- Park the machine on a level surface.
- Turn the Selector Key Switch to the OFF position and remove the key to prevent unauthorized use.
- Carefully exit the platform using a constant three (3) point dismount/grip.
- Always put the switch in OFF position when leaving the machine at the end of the work day.

#### **Deck Extension**



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.

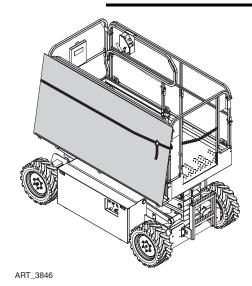
#### **Sheet Materials Rack**



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. DO NOT use with optional 55" wide platform. DO NOT lift or attach material to the outside of the optional 55" wide platform.

Fasten the material securely with straps until use.



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.

#### **Optional Material Clamps/Pipe Racks**

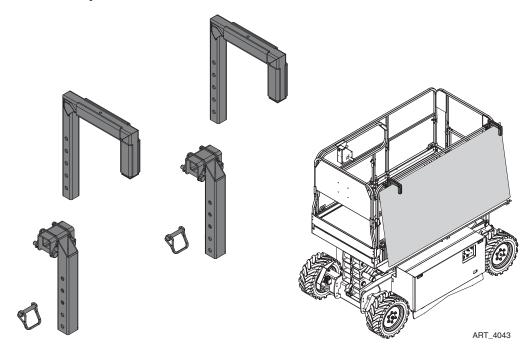


- Material Clamps/Pipe Racks may be used only on the 47" (1.2 m) deck equipped with the Sheet Material Rack. DO NOT use on the optional 55" (1.4 m) wide deck.
- The Material Clamps/Pipe Racks may be used only on the Sheet Material Rack side of the platform. DO NOT use on the side opposite the Sheet Material Rack.
- All material must be centered.

The optional Material Clamp/Pipe Rack allows the user to hold sheet material in place without the use of straps, or by inverting the clamps, to carry pipe or other long material.

Mount the clamps approximately 8 inches (20 cm) from the ends of the guard rails, above the Sheet Material Rack. Move the clamps closer together as needed to enable the use of both clamps on shorter material.

#### **Material Clamp Use**



Remove the J-shaped arms from the Material Clamps when loading material on the Sheet Material Rack.

When all material is loaded, replace the J-shaped arms as shown and secure them in place with the snap pins.

#### **Pipe Rack Use**

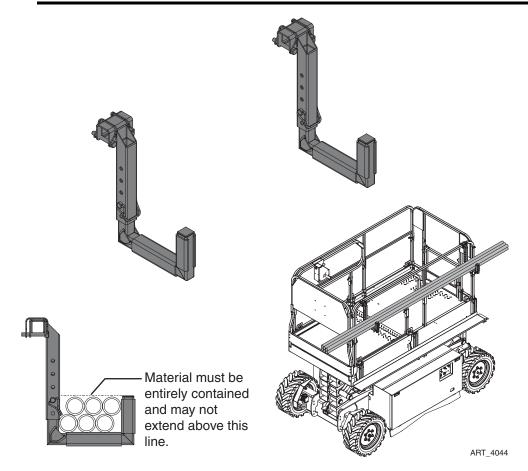


The Sheet Material Rack MAY NOT be used when the Pipe Rack is in use. Maximum capacity is 125 lbs (57 kg) each side/250 lbs (114 kg) total.

Maximum length of pipe/long material is 12 feet (3.65 m). Material must be centered on the Pipe Rack. Material must be entirely contained by the arms of the rack and may not extend above the shorter arm.



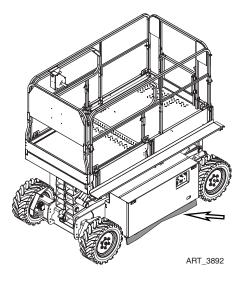
Use extreme caution and watch for obstructions when driving and lifting/lowering with long material on the rack.



Mount the J-shaped arms as shown for Pipe Rack use.

The maximum permissible length of material is 12 feet (3.65 m). All material must be centered on the Pipe Rack.

#### **Pothole Protection Bars**

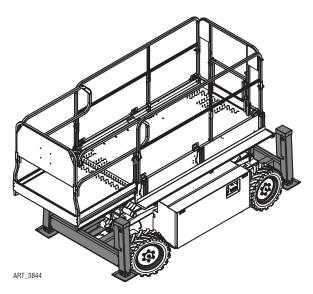


This machine is equipped with Pothole Protection Bars. These are activated electronically, are hydraulically actuated and lock into place. A limit switch confirms full deployment.

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)**



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.

**MARNING** 

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.

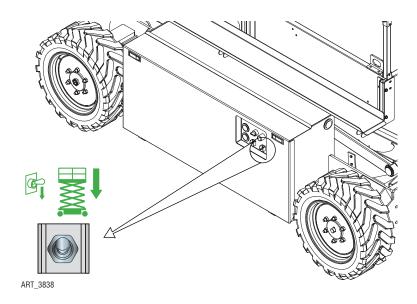
- The outriggers will retract.
- The Drive Enable Indicator Lamp will turn ON, indicating that the outriggers are retracted and that machine drive function is enabled.

### **Emergency Lowering System**



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

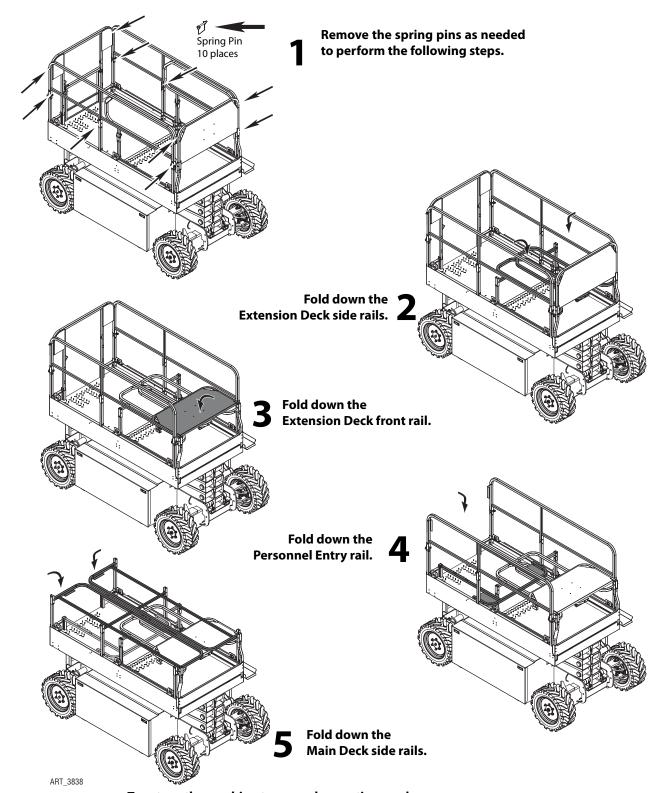
Do not climb down the scissor assembly or exit the platform.



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

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

#### **Fold Down Platform Railings**



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.

Crossover Series Battery Charger

# **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.

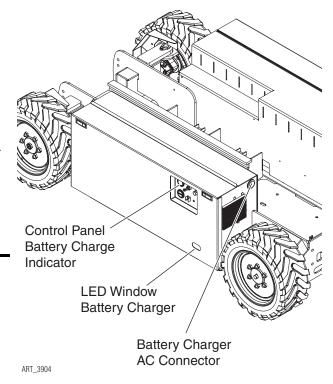


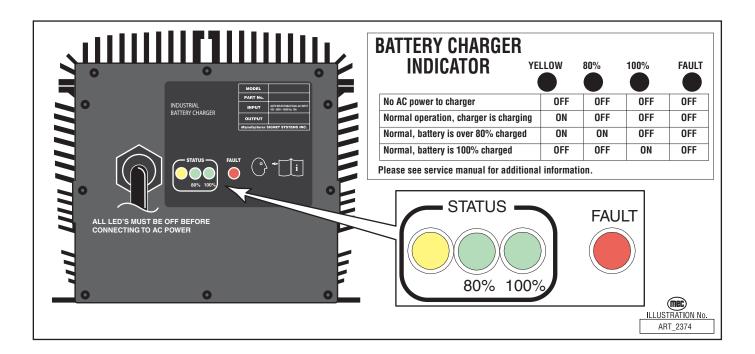
Lead-acid batteries generate explosive gases. Keep sparks and flame away from batteries.

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.





Crossover Series Battery Charger

#### **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.

Crossover Series Maintenance

#### **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.



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 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.



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**

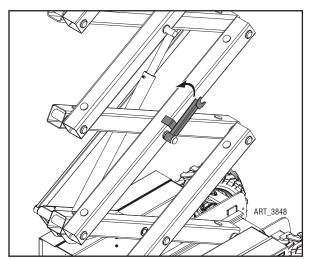
Frequent Inspection Checklists and Annual Inspection Reports must be completed by qualified service technicians trained and authorized to perform maintenance on this machine, and must be done in accordance with the procedures outlined in the service manual. Scheduled maintenance inspection checklists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



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

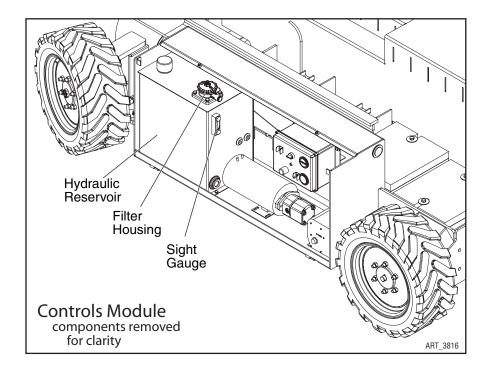


To set the Maintenance Lock, raise the platform enough to allow the Maintenance Lock to rotate to vertical. Carefully lower the platform until the pin above rests securely on the Maintenance Lock.

Crossover Series Maintenance

#### Lubrication

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



#### Lubrication

No.	ITEM	SPECIFICATION	FREQUENCY
1	Hydraulic Reservoir	Mobile Fluid DTE 10, DTE 13 M, or AW32  Do not substitute other fluids as pump damage may result.  Fill to the middle of the sight gauge with platform in the stowed position and stabilizers retracted.	Routine Maintenance Check sight gauge level daily Scheduled Maintenance Change yearly or every 600 hours, whichever occurs first
2	Hydraulic Filter	Filter Element (located inside Hydraulic Reservoir)	Scheduled Maintenance 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

# **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.



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 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.



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**



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.

Model N	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 b	olts, 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 en positions.	sure that the switches operate freely in all
	_ 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.	
Add	Iditional maintenance requirements for severe conditions	;
	If the machine is used in very dusty, exceptionally hot or exceptionally replace hydraulic filter element (under normal conditions replace ever first).	

DATE\_\_\_\_\_INSPECTED BY \_\_\_\_\_

#### **Annual Inspection Report**

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# **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	Dealer
Street	Street
City/State/Zip	City/State/Zip Phone Number
Phone Number	Phone Number
Contact	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

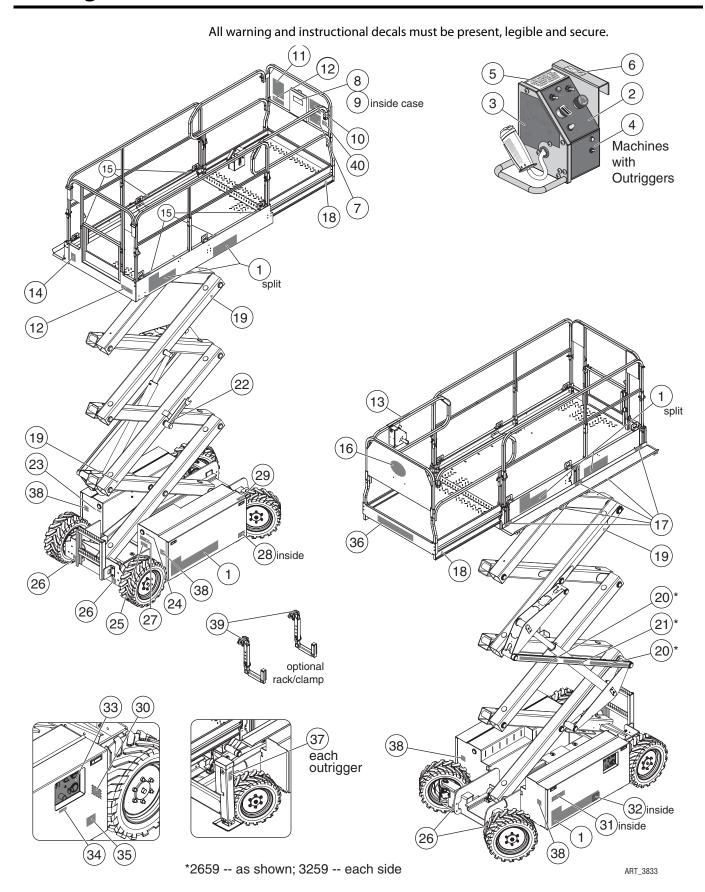
'R" Repaired

"U" Unnecessary/Not Applicable

Base:  Cover Panels Secure  Base Fasteners Tight  Bolts Tight  Front Axle Mounting (4WD)  Rear Axle Mounting (4WD)  Front Axle/Front Wheel Assem  Wheel Motors-Mounting Se  Wheel Motors-Leaks  Lug Nuts Torqued Properly  Steering Cylinder Pins Secur  Pivot Points Lubed  Drive Assembly Front Hubs:  Castle Nut Torqued Properly  Cotter Pinned  Rear Axle/Rear Wheel Assembl  Brakes Operational  Wheel Motors-Mounting Se  Wheel Motors-Hounting Se  Wheel Motors-Leaks  Lug Nuts Torqued Properly  Axle Pivot Lubed (4WD)  Axle Lock Operational  Component Area:  Valve Manifold(s) Secure  Hoses Tight/No Leaks  D/C Mtr(s) Secure/Operation  Contactors Secure  Pump Secure  Batteries:  Secure  Fully Charged	) hblies: ecure  y lies:	YN			Operation: Wires Tight Switches Secure All Functions Operational Emergency Down: Operational Slow Speed Limit Switch: Set Properly Pothole Bars: Operate Smoothly Lock In Place Limit Switches Adjusted		N	
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Axle Lock Operational Component Area: Valve Manifold(s) Secure Hoses Tight/No Leaks D/C Mtr(s) Secure/Operation Contactors Secure Pump Secure Batteries: Secure		+			Fuel Lines Secure	_		
Component Area: Valve Manifold(s) Secure Hoses Tight/No Leaks D/C Mtr(s) Secure/Operation Contactors Secure Pump Secure Batteries: Secure		+			Fuel Lines Free Of Leaks	-		
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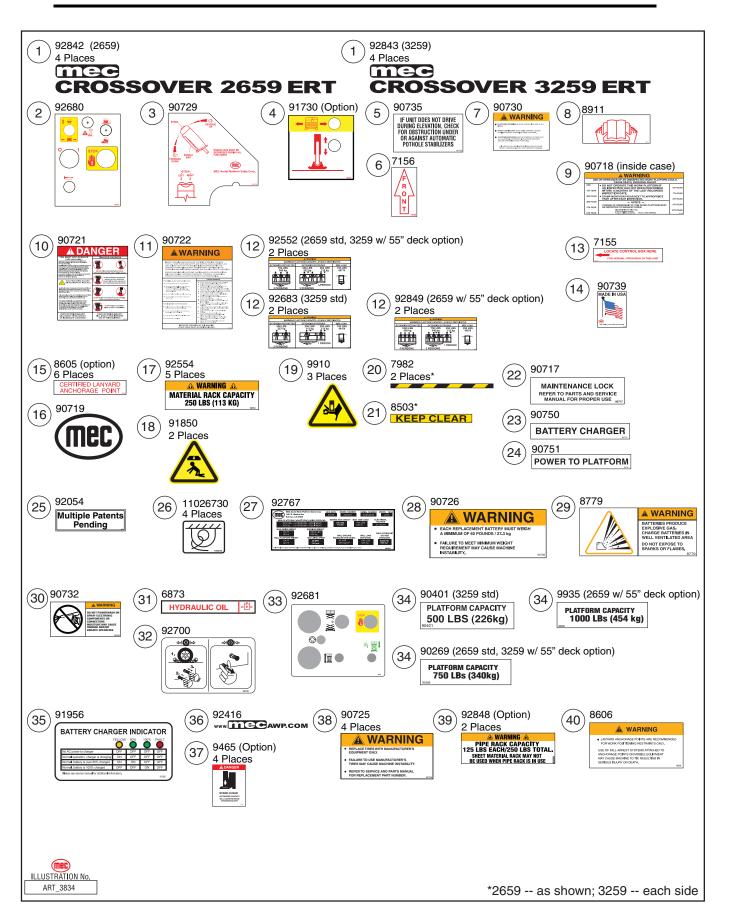
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# **Warning and Instructional Decals**



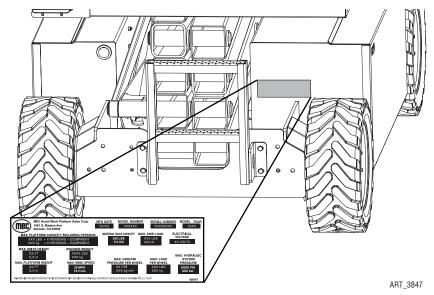
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#### **Decals** (continued)



#### **Serial Plate Location**

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



#### **Serial Plate Description**

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.

**ELECTRICAL VOLTAGE.** The voltage at which this machine operates.

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

**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.** The amount of pressure exerted on the surface at each wheel. Calculated with all available options installed.

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

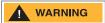
**MAX. WHEEL LOAD.** The maximum safe weight applied to each wheel. Calculated with all available options installed.

Fw = 30% (Wm + Wc + Wopt)

**MAX HYDRAULIC SYSTEM PRESSURE.** The maximum pressure at which this machine operates.

Crossover Series Troubleshooting

# **Troubleshooting**



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

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

#### Machine functions will not operate

- Master disconnect turned on?
- 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**



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

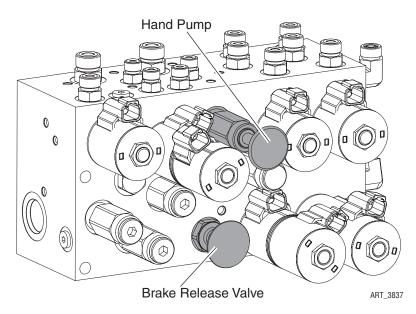
#### Free-wheel configuration for Winching or Towing.



#### **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**



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.

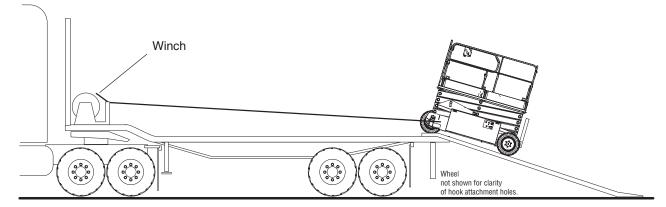
**Note:** The brakes are automatically released for driving and will automatically apply when the machine stops.

#### 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.

#### 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 four (4) chains or straps.
- Adjust the rigging to prevent damage to the chains and the machine.





#### **Lifting and Tie Down Instructions**

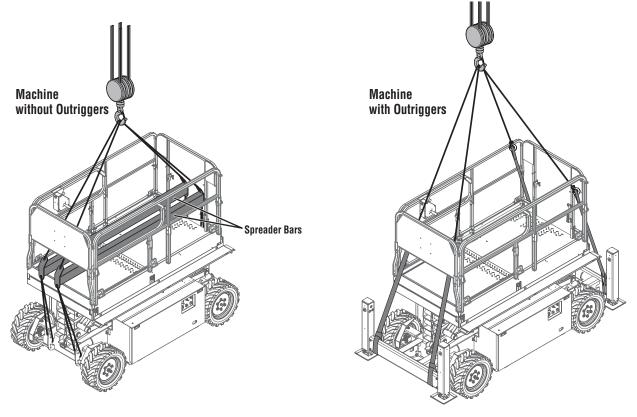
#### **Lifting Instructions**



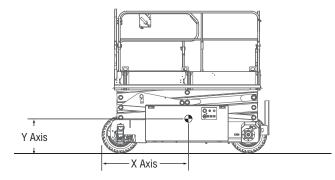
Only qualified riggers should rig and lift the machine.

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 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*.
  - For machines NOT equipped with outriggers, use spreader bars set to 96" length as shown below. Attach rigging to the lift/tie-down points on the chassis. Route the rigging as shown below to avoid damage to the guardrails.
  - For machines equipped with outriggers, **use slings only**. Attach the slings to the outrigger weldments as close to the outriggers as possible. Route the rigging as shown below to avoid damage to the guardrails.



Adjust rigging to prevent damage to the machine and to keep the machine level.



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)

Near-side wheels not shown for clarity. ART\_4171



# **Limited Owner Warranty**

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



## **MEC Aerial Platform Sales Corp.**

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