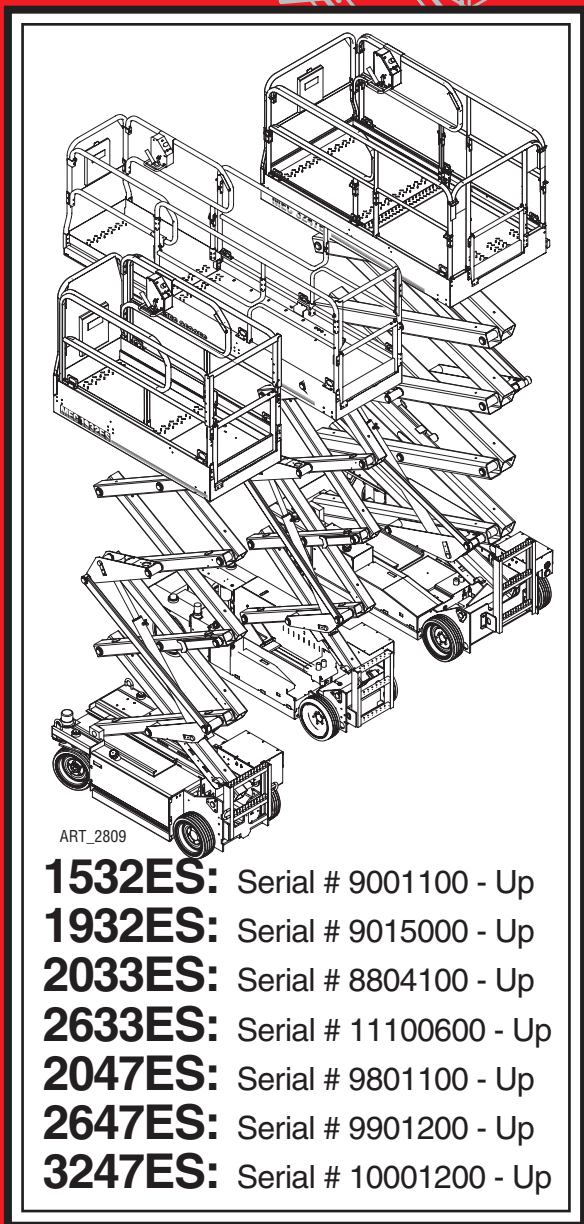


OPERATOR'S MANUAL CE SPECIFICATIONS

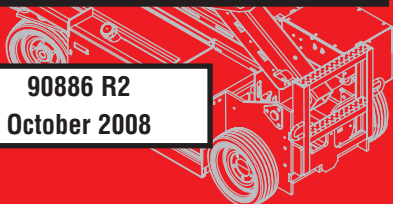
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ART_2809

- 1532ES:** Serial # 9001100 - Up
- 1932ES:** Serial # 9015000 - Up
- 2033ES:** Serial # 8804100 - Up
- 2633ES:** Serial # 11100600 - Up
- 2047ES:** Serial # 9801100 - Up
- 2647ES:** Serial # 9901200 - Up
- 3247ES:** Serial # 10001200 - Up

90886 R2
October 2008



SPECIFICATIONS

	1532ES	1932ES	2033ES	2633ES
Working Height*	6.50 m	7.71 m	7.98 m	9.8 m
Platform Height	4.50 m	5.71 m	5.98 m	7.98 m
Stowed Height				
Rails Up	1.90 m	2.10 m	2.06 m	2.19 m
Rails Folded Down	NA	NA	1.94 m	1.94 m
Maximum Number of Occupants	2	2	2	2
Lift Capacity (Evenly Distributed)	272 kg	226 kg	363 kg	226 kg
Rollout Deck Capacity	113 kg	113 kg	113 kg	113 kg
Platform Dimensions				
With Roll-Out Deck Retracted	0.96 x 1.68 m	0.96 x 1.68 m	0.81 x 3.36 m	0.81 x 3.36 m
Guard Rail Height	1.03 m	1.03 m	1.10 m	1.10 m
Toe Board Height	19 cm	19 cm	15 cm	15 cm
Rollout Deck Length	0.91 m	0.91 m	1.0 m	1.0 m
Overall Length	1.83 m	1.83 m	2.49 m	2.49 m
Overall Width	0.80 m	0.80 m	0.84 m	0.84 m
Wheel Base	1.27 m	1.27 m	1.8 m	1.8 m
Wheel Track	0.70 m	0.70 m	0.70 m	0.70 m
Turning Radius				
Inside	5 cm	5 cm	0 cm	0 cm
Outside	1.8 m	1.8 m	2.0 m	2.0 m
Ground Clearance	0.6.8 m	6.8 m	8.9 cm	8.9 cm
Machine Weight** (Unloaded) (Approx.)	1236 kg	1390 kg	1731 kg	42109 kg
Drive System (Proportional)				
Drive Speed (Platform Elevated - Forward)	0 - 0.8 km/h		0 - 0.64 km/h	
Drive Speed (Platform Lowered)	0 - 3.7 km/h		0 - 2.7 km/h	
Lift/Lower Speed (Approx.)	17 sec / 20 sec	17 sec / 20 sec	27 sec / 35 sec	27 sec / 35 sec
Gradeability	25% / 14°	25% / 14°	24% / 13.5°	24% / 13.5°
Ground Pressure/Wheel (Maximum)	7.4 kg/cm ²	7.9 kg/cm ²	8.08 kg/cm ²	9.07 kg/cm ²
Wind Speed (Maximum)	0 m/s	0 m/s	0 m/s	0 m/s
Tire Size-Standard (Solid, non-marking rubber)	35.56 cm x 11.43 cm		40.6 x 12.7 cm	
Wheel Lug Nut Torque	102 - 115 Nm		102 - 115 Nm	
Hydraulic Pressure				
Main System	190 bar	190 bar	190 bar	190 bar
Lift System	131 bar	180 bar	166 bar	180 bar
Steer	62 bar	62 bar	62 bar	69 bar
Hydraulic Fluid Capacity	11.36 liters	11.36 liters	11.36 liters	11.36 liters
Power System – Voltage	24 Volts DC	24 Volts DC	24 Volts DC	24 Volts DC
Battery Charger				
Input	100-220 Volt AC, 50/60 Hz, 5.6 Amp		100-220 Volt AC, 50/60 Hz, 5.6 Amp	
Output	24 Volt DC, 25 Amps Tapering, Timed Shutoff		24 Volt DC, 25 Amps Tapering, Timed Shutoff	
Batteries	Four 6 Volt deep-cycle 220 Amp hours @ 20 hour rating		220 Amp hours @ 20 hour rating	
Electric Motor	4.0 h.p. (2.98 kW): 3000 r.p.m.		4.0 h.p. (2.98 kW): 3000 r.p.m.	
Meets requirements of CE.				
*Metric equivalent of working height adds 2 m (6.6 ft.) to platform height.				
**Weight may increase with certain options or country standards.				



SPECIFICATIONS

	2047ES	2647ES	3247ES
Working Height*	7.98 m	9.80 m	11.60 m
Platform Height	5.98 m	7.8 m	9.60 m
Stowed Height	Rails Up	2.13 m	2.27 m
	Rails Folded Down	1.65 m	1.81 m
Maximum Number of Occupants	0 m/s wind	3	2
	12.5 m/s wind	1	N/A
Lift Capacity (Evenly Distributed)	1.67 kg	454 kg	318 kg
Rollout Deck Capacity	113 kg	113 kg	113 kg
Platform Dimensions			
With Roll-Out Deck extended	3.39 m	3.39 m	3.39 m
With Roll-Out Deck Retracted	2.31 m	2.31 m	2.31 m
Guard Rail Height	1.10 m	1.10 m	1.10 m
Toe Board Height	15.2 cm	15.2 cm	15.2 cm
Rollout Deck Length	1.07 m	1.07 m	1.07 m
Overall Length	2.51 m	2.51 m	2.51 m
Overall Width	1.19 m	1.19 m	1.19 m
Wheel Base	1.80 m	1.80 m	1.8 m
Wheel Track	1.04 m	1.04 m	1.04 m
Turning Radius	Inside	0 cm	0 cm
	Outside	2.4 m	2.4 m
Ground Clearance	8.9 cm	8.9 cm	8.9 cm
Machine Weight** (Unloaded) (Approx.)	2019 kg	2404 kg	2717 kg
Drive System (Proportional)			
Drive Speed (Platform Elevated - Forward)		0 - 0.69 km/h	
Drive Speed (Platform Lowered)		0 - 4.0 km/h	
Lift/Lower Speed (Approx.)	34/35 sec.	36/35 sec.	42/45 sec.
Gradeability	25%	25%	23%
Ground Pressure/Wheel (Maximum)	12.7 kg/cm ²	14.0 kg/cm ²	14.9 kg/cm ²
Wind Speed (Maximum)	12.5 m/s	0 m/s	0 m/s
Tire Size-Standard (Solid, non-marking rubber)	40.6 cm D x 12.7 cm W		
Wheel Lug Nut Torque	102 - 115 Nm		
Hydraulic Pressure	Main System	190 bar	207 bar
	Lift System	172 bar	172 bar
	Steer	76 bar	76 bar
Hydraulic Fluid Capacity	17.0 liters	17.0 liters	17.0 liters
Power System – Voltage	24 Volts DC	24 Volts DC	24 Volts DC
Battery Charger	Input	100-220 Volt AC, 50/60 Hz, 5.6 Amp	
	Output	24 Volt DC, 25 Amps Tapering, Timed Shutoff	
Batteries	Four 6 Volt deep-cycle	240 Amp hours @ 20 hour rating	
Electric Motor		4.0 h.p. (2.98 kW): 3000 r.p.m.	
Meets requirements of CE.			
*Metric equivalent of working height adds 2 m (6.6 ft.) to platform height.			
**Weight may increase with certain options or country standards.			

INTRODUCTION

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



The operator's manual must be read and understood prior to operating your MEC self-propelled scissors. 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 scissor lift 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 Scissor Lift has been designed, built, and tested to provide safe, dependable service. Only authorized, trained and qualified personnel should be allowed to operate or service the machine.

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

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



MEC Aerial Platform Sales Corp.

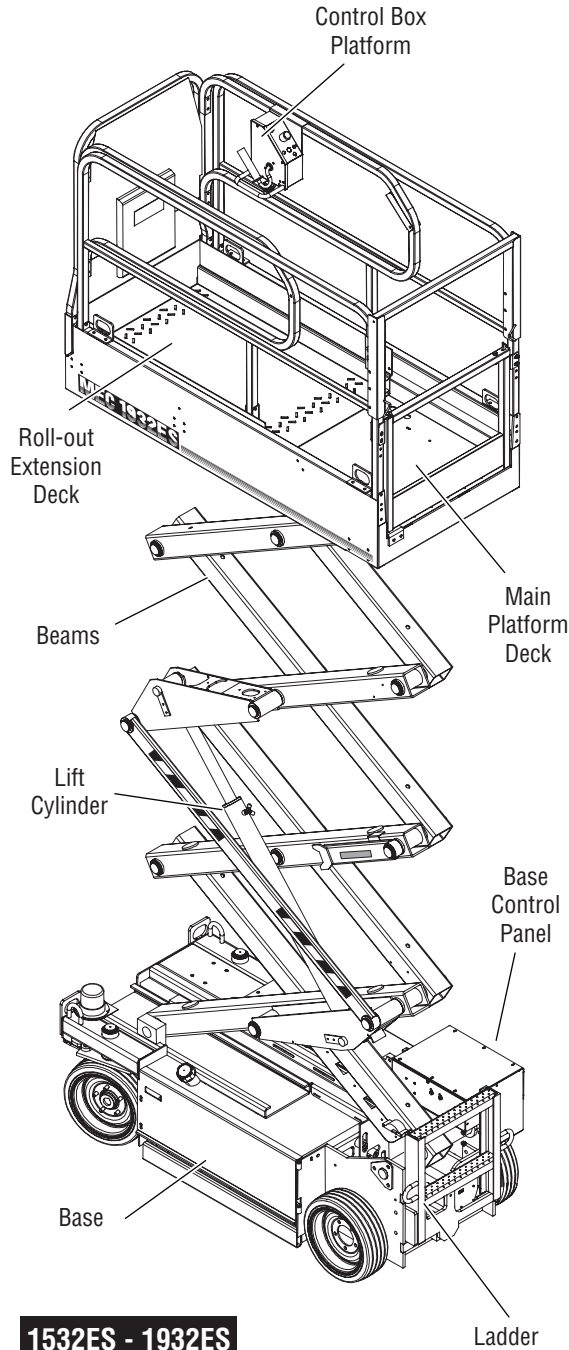
1775 Park Street, Suite 77 • Selma, CA 93662 USA

Ph: 1-800-387-4575 • 559-891-2488 • Fax: 559-891-2448

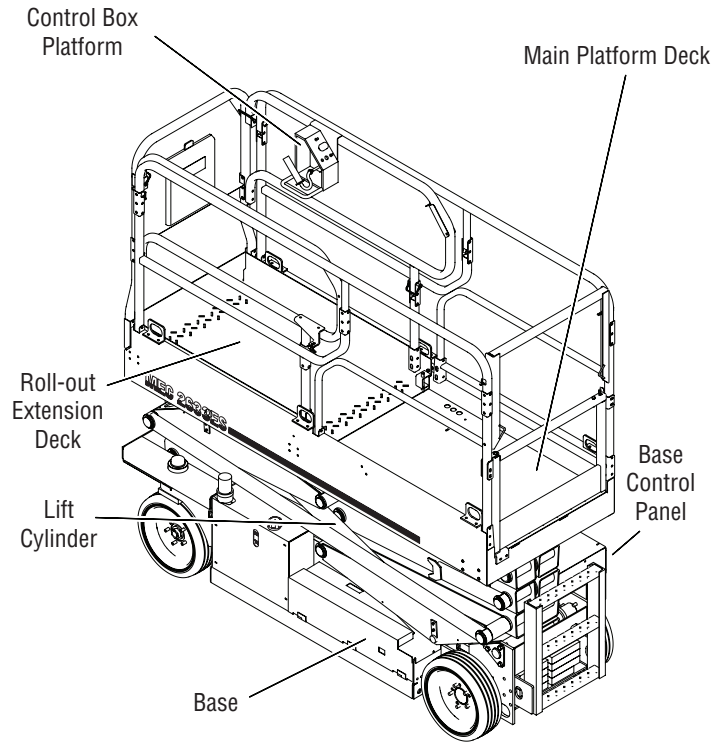
www.mecawp.com



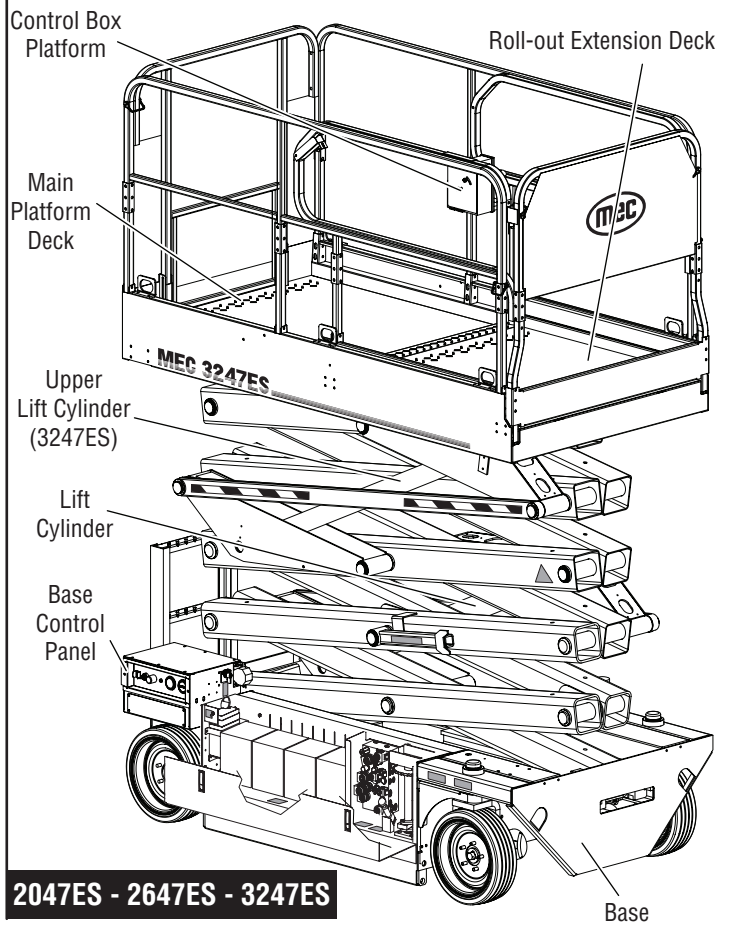
Machine Components



1532ES - 1932ES



2033ES - 2633ES



2047ES - 2647ES - 3247ES


ILLUSTRATION No.
ART_2810



Machine Controls

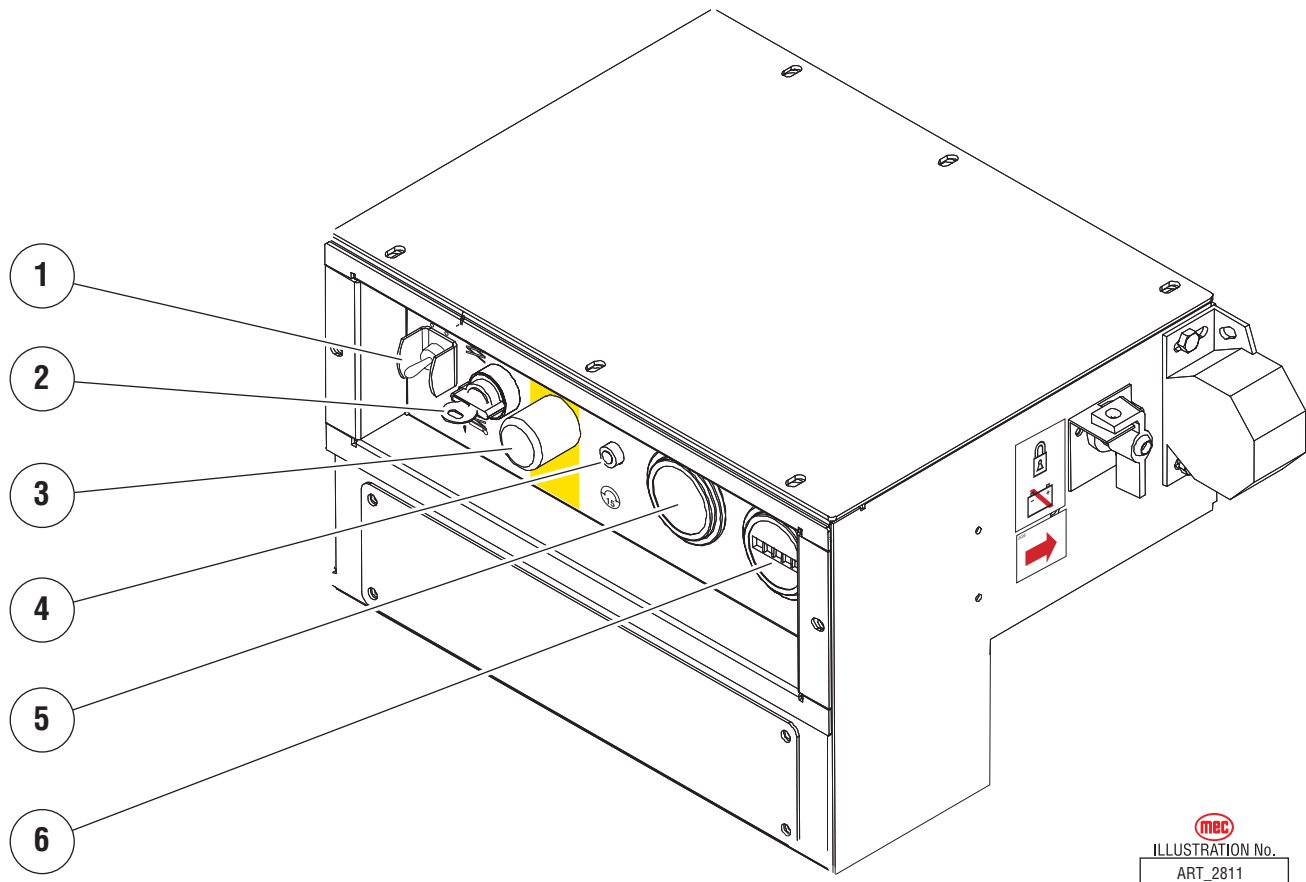


ILLUSTRATION No.
ART_2811

CONTROL	DESCRIPTION
1 Lift/Lower Switch	Use to control the lift and lowering of the platform from the base panel, when "BASE" position is selected as the primary control station.
2 Base/Off/Platform Selector Switch	Select "BASE" position to control operation of machine using the base controls. Select "PLATFORM" position to control operation of machine using the platform console. NOTE: A key shall be provided for European machines and will be removable in "PLATFORM" position only.
3 Emergency Stop Button	Use to stop all functions in an emergency. Push for emergency stop. To reset turn clockwise.
4 Circuit-breaker	Pops out when there is excessive electrical load in the 12-volt control circuit. Push in to reset.
5 Battery Gauge (Optional)	Indicates percent of charge left in batteries.
6 Hour Meter	Indicates total elapsed time the machine has been operated.

Machine Controls

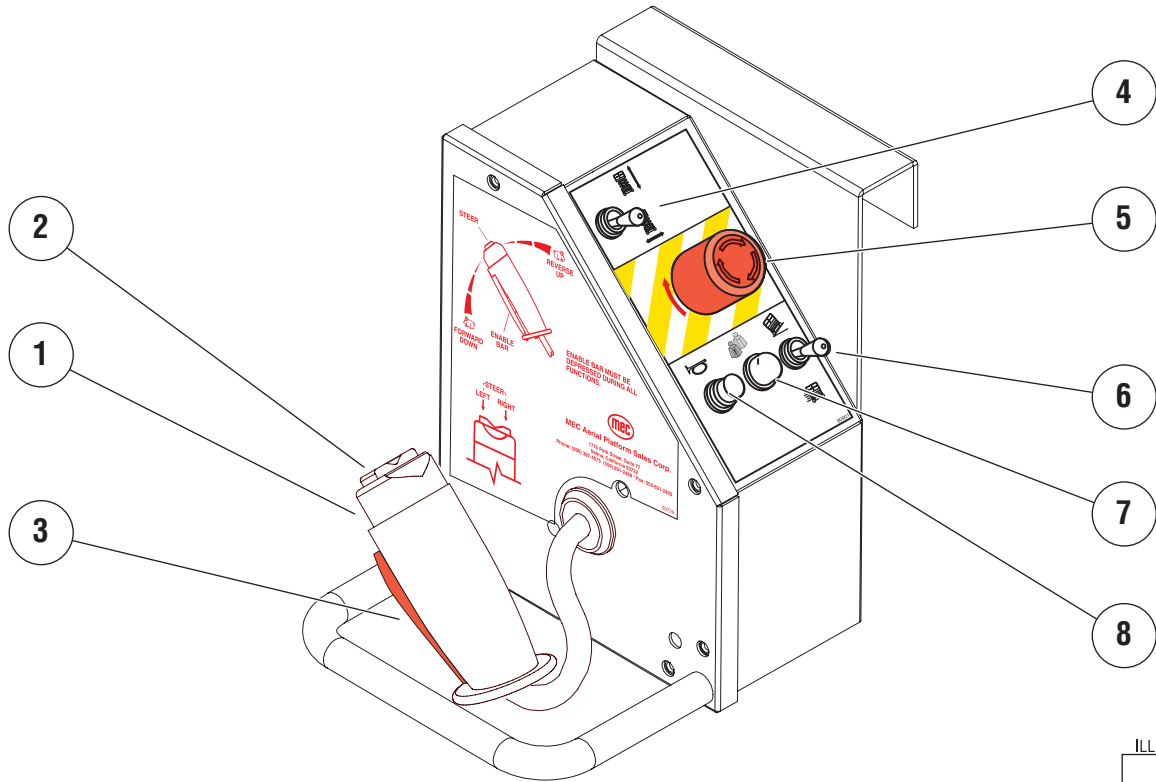



 ILLUSTRATION No.
 ART_2812

CONTROL	DESCRIPTION
1 “Forward/Reverse” “Lift/Lower” Controller	With enable bar pressed, controls forward and reverse machine travel at speed proportional to handle movement. With enable bar pressed, moving controller handle toward the operator (up) will provide platform lift at a speed proportional to handle movement. Moving the handle away from the operator (down) will provide platform lowering at a fixed speed.
2 “Left/Right”	Push Steer Rocker Switch (thumb) to the left and hold to turn steer wheels to the left, right to turn steer wheels to the right.
3 Enable Bar	Must be depressed to active drive, steer, and lift functions.
4 Mode Selector	Desired selection will allow either the lift or drive function using controller handle.
5 Emergency Stop Button	Push to stop all functions in emergency. Reset by turning clockwise.
6 Torque On/Off Switch	“ON” selection will provide extra driving torque and reduce drive speed when the platform is under approximately 7 ft (2.13 m). “OFF” position is the normal mode.
7 Tilt Warning Light	Indicates that machine is not level.
8 Horn (Optional)	Press button to sound warning horn.

SAFETY

Failure to read, understand, and follow all safety rules, warnings, and instructions will unnecessarily expose you and others to dangerous situations. For your safety and the safety of those around you, you must operate your machine as instructed in this manual.

You, the operator, are the single most important factor for safety when using any piece of equipment. Learn to operate your machine in a safe manner.

To help you recognize important safety information, we have identified warnings and instructions that directly impact on safety with the following signals:



Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations.



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



Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.



Indicates a situation which, if not avoided, may result in damage to the equipment.

Safety Rules And Precautions

MEC designs self-propelled scissor lifts to be safe and reliable. They are intended to position personnel, along with their necessary tools and materials to overhead work locations.

The owner/user/operator of the machine should not accept responsibility for the operation of the machine, unless properly trained.

TIPOVER HAZARDS



**DO NOT DRIVE NEAR
DROP-OFFS, HOLES
OPEN ELEVATOR SHAFTS,
AND LOADING DOCKS.**



**DO NOT ELEVATE PLATFORM ON
UNEVEN OR SOFT SURFACES
DO NOT DRIVE ONTO UNEVEN OR
SOFT SURFACES WHEN ELEVATED.**



**DO NOT RAISE PLATFORM
ON SLOPE, OR DRIVE
ONTO SLOPE WHEN ELEVATED.**



**DO NOT RAISE
PLATFORM IN
WINDY OR GUSTY
CONDITIONS.**

ART_2349

**DANGER**

- ◆ Only authorized, trained and qualified personnel should operate the scissor lift.
- ◆ NEVER fasten fall protection lanyard to an adjacent structure while on the platform.
- ◆ Make sure that the platform entry is properly closed and secure before operating machine from the platform.
- ◆ NEVER exceed platform rated capacity. Review the section titled “Machine Specifications” (earlier in this manual) regarding model capacities and dimensions.
- ◆ Before operating the machine, read and understand all safety and control information found on the machine and in this manual.
- ◆ When operating the machine follow all safety and control information found on the machine and in this manual.
- ◆ Evenly distribute loads placed on the platform.
- ◆ NEVER use scaffolding, ladders or similar items to extend your reach while on the platform.
- ◆ NEVER climb down the beam assembly while the platform is raised.
- ◆ The “Moving the Machine” section (described later in this manual) requires that the brake be released. After performing this procedure, there is no means to stop the machine’s travel. MEC recommends using this procedure only in cases of emergency, and only for a short distance. Be on guard against machine runaway on sloping surfaces. Movement speed shall not exceed 5 MPH (8.0 kph).
- ◆ NEVER attempt to open any hydraulic line or component without first relieving all system pressure.
- ◆ NEVER alter, modify, or disable any safety devices or interlocks.
- ◆ NEVER recharge the battery near sparks or open flames. Lead-acid batteries generate EXPLOSIVE HYDROGEN GAS. Always wear safety glasses.
- ◆ NEVER use the machine outdoors during electrical storms or in high wind situations.
- ◆ Only raise the platform when the machine is on a firm, level surface.
- ◆ If the Tilt Alarm sounds, use extreme caution and lower the platform. Reposition machine on a firm, level surface before elevating again.
- ◆ SECURE all tools and other loose items to prevent injury to persons working on or below the platform.
- ◆ Precautions should be taken to prevent unauthorized personnel from operating the platform with the ground controls while the platform is in use.

**WARNING !!!**

- ◆ Unassisted loading or unloading of scissorlift from a truck or trailer is not recommended.
- ◆ Before disengaging brakes or disconnecting from a tow vehicle, ensure that the machine cannot roll.
- ◆ NEVER operate this machine outdoors in windy conditions, except model 2047ES.
- ◆ ALWAYS observe the maximum wind speed of 0 m/s, except model 2047ES.
- ◆ Precautions should be taken when operating the machine outdoors. When elevated, pay attention to conditions especially when passing buildings or other large objects that may obscure windy conditions.
- ◆ NEVER modify or alter the machine without prior written permission from the manufacturer.
- ◆ NEVER replace components critical to machine stability with items of different weight or specification. See *Service and Parts Manual* for appropriate replacement part numbers.
- ◆ Do not use batteries that weigh less than original equipment. Each battery must weigh at least 27.3 kg.
- ◆ Complete the “Operational Checklist” at designated intervals.

**CAUTION**

- ◆ Use of the machine as a crane to lift oversized or hanging loads is prohibited.
- ◆ ALWAYS ensure that the route and areas are clear before driving, lifting or lowering.
- ◆ It is recommended to avoid sudden braking or steering. Go slowly and leave more maneuvering room during cold weather operation.
- ◆ Only lower the outriggers when the machine is on a firm, level surface. The surface must be capable of supporting the maximum ground pressure per wheel/outrigger (see specifications).
- ◆ DO NOT raise the platform unless all four outriggers are properly lowered and the machine is level.
- ◆ DO NOT adjust outriggers while platform is raised.
- ◆ DO NOT drive while outriggers are lowered.

Fall Protection Notice

**WARNING !!!**

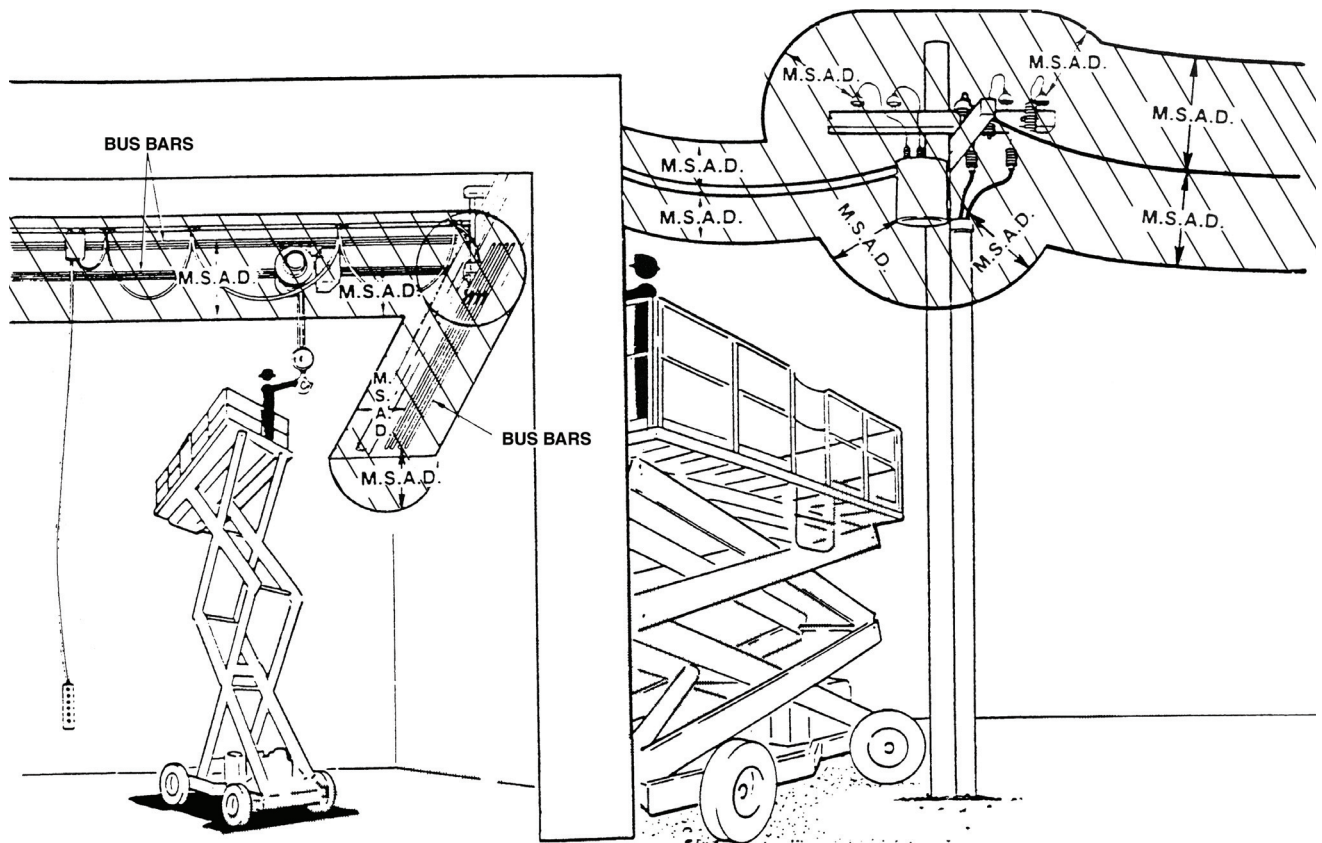
Lanyard anchorage points are recommended for work positioning restraints only.

Use of fall arrest systems attached to anchorage points on mobile equipment may cause machine to tip, resulting in serious injury or death.

The Guardrail System around the perimeter of the platform is the fall protection system for self-propelled elevating work platforms. It is prohibited to use an Aerial Work Platform manufactured by MEC with any portion, or all, of the guardrails removed.

**DANGER**

- ◆ **ELECTROCUTION HAZARD!!! THIS MACHINE IS NOT INSULATED!!**
- ◆ Maintain safe clearance from electrically charged conductors (power lines) and apparatus. You must allow for machine sway (side to side movement) when elevated and electrical line movement. This machine does not provide protection from contact with, or proximity to, an 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.
- ◆ **DEATH OR SERIOUS INJURY** will result from contact with or inadequate clearance from any electrically charged conductor.
- ◆ Observe Minimum Safe Approach Distance as illustrated on next page.
- ◆ Only authorized, trained and qualified personnel should operate the scissor lift.
- ◆ NEVER fasten fall protection lanyard to an adjacent structure while on the platform.
- ◆ Make sure that the platform entry is properly closed and secure before operating machine from the platform.
- ◆ NEVER exceed platform rated capacity. Review the section titled “Machine Specifications” (earlier in this manual) regarding model capacities and dimensions.



M.S.A.D. = MINIMUM SAFE APPROACH DISTANCE



DENOTES PROHIBITED ZONE

- DANGER:**
- DO NOT ALLOW MACHINE, PERSONNEL OR CONDUCTIVE MATERIALS INSIDE PROHIBITED ZONE.
 - MAINTAIN M.S.A.D. FROM ALL ENERGIZED LINES AND PARTS AS WELL AS THOSE SHOWN.
 - ASSUME ALL ELECTRICAL PARTS AND WIRES ARE ENERGIZED UNLESS KNOWN OTHERWISE.

- CAUTION:**
- DIAGRAMS SHOWN ARE ONLY FOR PURPOSES OF ILLUSTRATING M.S.A.D. WORK POSITIONS, NOT ALL WORK POSITIONS.

MINIMUM SAFE APPROACH DISTANCE (M.S.A.D.)

to energized (exposed or insulated) power lines and parts.

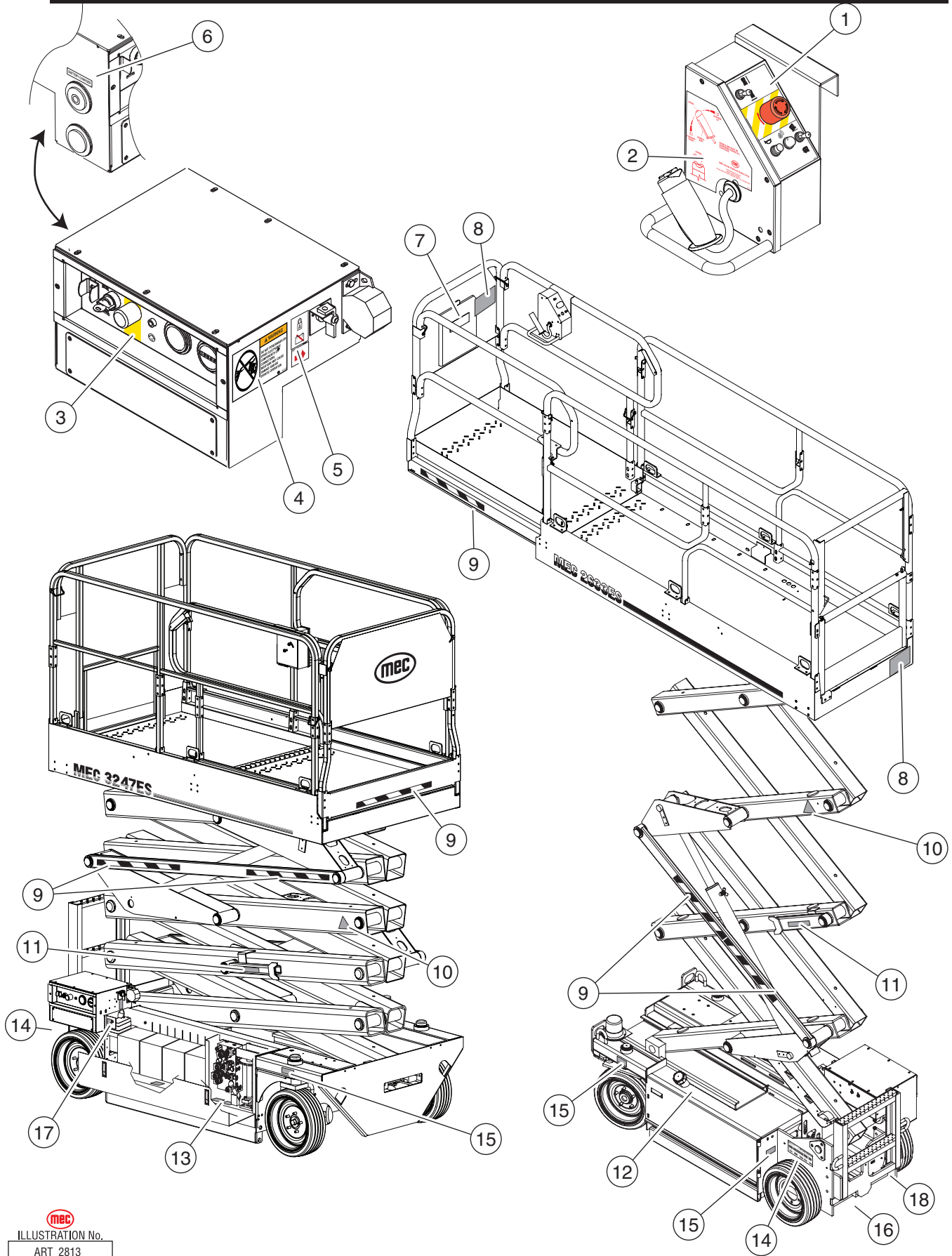
VOLTAGE RANGE (Phase to Phase)	MINIMUM SAFE APPROACH DISTANCE	
	(Feet)	(Meters)
0 to 300V	AVOID CONTACT	
Over 300V to 50KV	10	3.05
Over 50KV to 200KV	15	4.60
Over 200KV to 350KV	20	6.10
Over 350KV to 500KV	25	7.62
Over 500KV to 750KV	35	10.67
Over 750KV to 1000KV	45	13.72



ILLUSTRATION No.
ART_2351

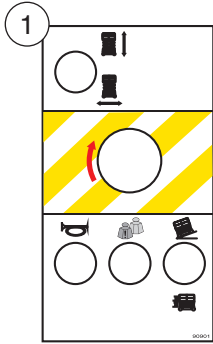


Safety and Instructional Decals

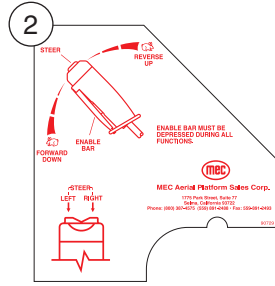


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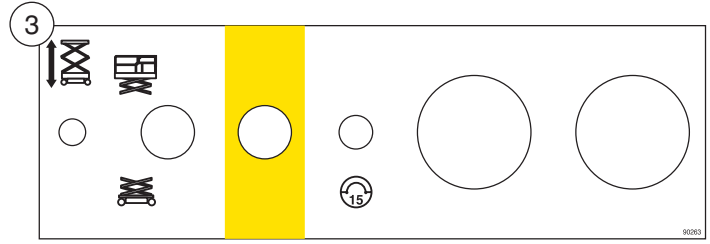
Safety and Instructional Decals



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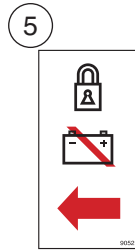
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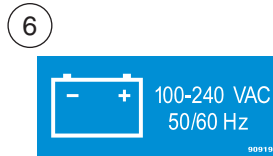
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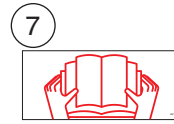
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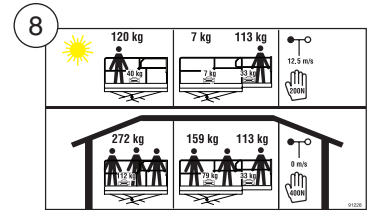
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8911



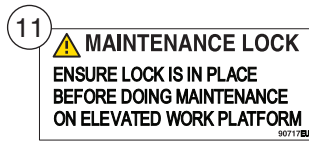
- 91228 (1532ES)
- 91227 (1932ES)
- 91250 (2033ES)
- 91227 (2633ES)
- 90979 (2047ES)
- 91230 (2647ES)
- 91229 (3247ES)



7982



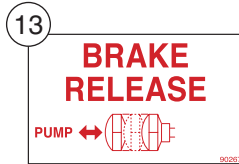
9910



90717EUR



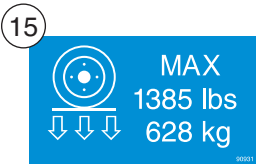
6873



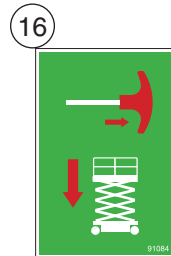
90267

mec		CE		MFG. DATE	MODEL NUMBER	SERIAL NUMBER	MODEL YEAR
				XXX/XX	XXXXXXXX	XXXXXXXXXX	20XX
WIND SPEED	MAX. PLATFORM CAPACITY INCLUDING PERSONS	MAX. ALLOWABLE MANUAL FORCE		MAX. PLATFORM HEIGHT			
0 m/s	XXX kg = X PERSONS + XXX kg EQUIPMENT	XXX N		X.X m			
12.5 m/s	XXX kg = X PERSONS + XXX kg EQUIPMENT	XXX N		X.X m			
MAX. ALLOWABLE INCLINATION	ELECTRICAL VOLTAGE	MAX. GROUND PRESSURE PER WHEEL	MAX. LOAD PER WHEEL	MACHINE WEIGHT			
X.X° x X.X°	100-220 VAC 50/60 Hz	X.X kg/cm ²	XXX kg	XXXX kg			

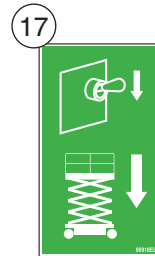
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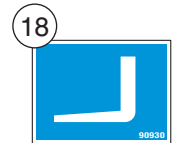
- 90933 - 453 kg (1532ES)
- 90902 - 485 kg (1932ES)
- 90931 - 628 kg (2033ES)
- 90932 - 701 kg (2633ES)
- 90974 - 776 kg (2047ES)
- 90975 - 875 kg (2047ES)
- 90976 - 910 kg (2047ES)



91084
(except 3247ES)



90918
(only 3247ES)



90930

NOTE: Decals may vary according to country

ILLUSTRATION No.
ART_2814

OPERATION

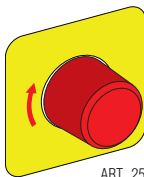


Do not operate the machine if tests reveal a defect.

Before use each day or at the beginning of each shift, a visual inspection and functional test shall be performed. Repairs must be made prior to operating the machine to ensure safe operation.

Prestart

- ◆ Perform *Prestart Inspection* (see page 28).



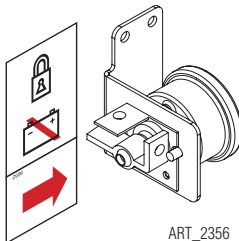
ART_2506

- ◆ Ensure that EMERGENCY STOP switch on the lower control panel is reset. Reset the switch by turning it clockwise.



ART_2507

- ◆ Ensure that EMERGENCY STOP switch on the upper controls is reset. Reset the switch by turning it clockwise.



ART_2356

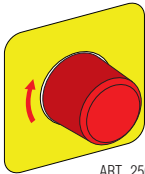
- ◆ Ensure that the battery disconnect switch is in the ON position. Located in control module, to the left of control panel.

Lower Control Operation And Checks



DO NOT ELEVATE THE PLATFORM IF THE MACHINE IS NOT ON A FIRM LEVEL SURFACE

Important: BE SURE the area above the machine is clear of obstructions to allow full elevation of platform. DO NOT OPERATE the machine if tests reveal a defect.
ELECTROCUTION HAZARD: observe safety rules outlined on pages 10-11.



ART_2506

Emergency Stop

Press the EMERGENCY STOP switch at any time to stop all functions.

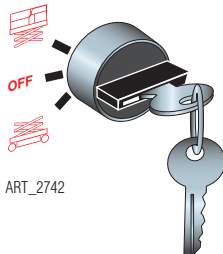
- ◆ Reset the switch by turning it clockwise.

Elevate Platform

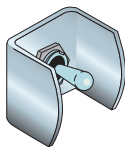
1. Turn the base/platform select switch to BASE.
2. Activate the Lift/ Lower switch on the base control panel to elevate the platform to the end of its movement. Releasing the switch should stop elevation.

Test Operation

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



ART_2742



ART_2815

Lower Platform

1. Activate the Lift/ Lower switch on the base control panel to lower the platform. Release when the desired platform height is reached.
2. 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 can resume.

Test Operation

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

Inspection

- ◆ Check for proper operation and hydraulic leaks.
- ◆ Set the maintenance lock before inspecting any items inside or around the scissor arms.
- ◆ Lower the platform to the stowed position.

! WARNING !!!

Activation of the platform "Emergency Stop" button 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.

Upper Control Operation and Checks

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.

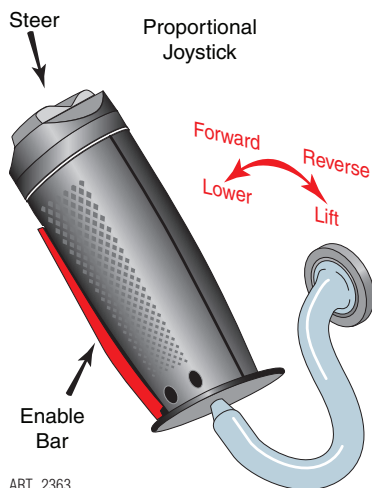
1. Turn the base/platform select switch to PLATFORM.
2. Enter platform and close and secure the entry.
3. Press the horn button on the upper controls to verify proper operation.



Emergency Stop (Platform)

Press the EMERGENCY STOP switch at any time to stop all functions.

- ◆ Reset the switch by turning it clockwise.

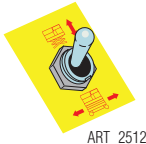


Joystick Operation

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

IMPORTANT: The Enable Bar must be activated to operate the controller for Drive, Steer, and Lift/ Lower Function.

Elevate Platform



! WARNING !!!

Do Not elevate platform unless guardrails are installed and secure.

1. Place the MODE SELECT switch in the LIFT position.
2. Squeeze the enable bar and move the joystick toward you.

Test Operation

- ◆ Rate of lift is proportional and is dependent on the movement of the joystick.
- ◆ Elevate to maximum height.
- ◆ Release the joystick and/or enable bar, or move the joystick to the neutral (center) position to stop elevation.
- ◆ Pressing the EMERGENCY STOP switch will stop elevation.
- ◆ 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 can resume.

Lower Platform

! WARNING !!!

If the roll-out deck is extended check for clearance under deck area before lowering platform.

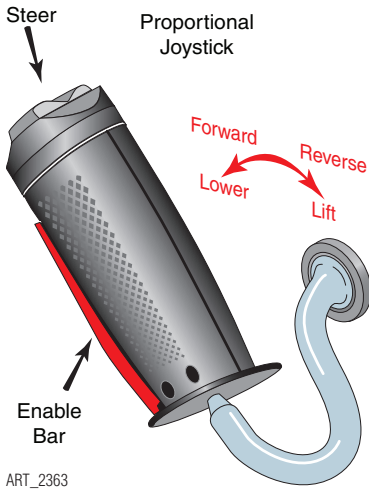
1. Place the MODE SELECT switch in the LIFT position.
2. Move the joystick away from you.

Test Operation

- ◆ Rate of descent is fixed - platform lowers at same rate regardless of handle position.
- ◆ Release the joystick or move it to the neutral (center) position to stop descent.
- ◆ Pressing the EMERGENCY STOP switch will stop descent.

! WARNING !!!

If platform should fail to lower do not attempt to climb down the scissor assembly. Serious injury may result.



ART_2363

Steer

IMPORTANT: Always check front steer wheel direction before driving.

1. Place the MODE SELECT switch in the DRIVE position.
2. Squeeze the enable bar and press the steering switch with your thumb to steer left or right.
 - ◆ Release the enable bar or steering switch to stop steering.
 - ◆ The wheels will not center themselves after a turn. They must be returned to the straight-ahead position with the steering switch.



ART_2513

Drive Forward

1. Place the MODE SELECT switch in the DRIVE position.
2. Squeeze the enable bar and move the joystick away from you.
 - ◆ Drive speed is proportional and is dependent on the movement of the joystick.
 - ◆ Release the enable bar or return the joystick to the center position to stop.
 - ◆ Pressing the EMERGENCY STOP switch will stop drive.

Drive Reverse

1. Place the MODE SELECT switch in the DRIVE position.
2. Squeeze the enable bar and move the joystick toward you.
 - ◆ Drive speed is proportional and is dependent on the movement of the joystick.
 - ◆ Release the enable bar or return the joystick to the center position to stop.
 - ◆ Pressing the EMERGENCY STOP switch will stop drive.

! WARNING !!!

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

Brake

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

Platform Overload Indicator

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



ART_2519

Extending the Roll-out Extension Deck

**WARNING !!!**

If the roll-out deck is extended check for clearance under deck area before lowering platform.

The deck will extend in intervals of 6 inches (15 cm) throughout the entire length of the roll-out extension deck. There are two (2) handles that hang from the top rail at the end of the extension deck. Both handles are used to push or pull the extension deck to the desired position. The right-side handle is attached by cable to a spring-loaded pin at the deck.

- ◆ Lift the right-side handle to raise the spring-loaded pin from the locked position.
- ◆ With right-side handle raised, lift the left-side handle and push to extend or pull to retract the deck.
- ◆ Lower the right-side handle enough for the spring-loaded pin to engage and continue to push or pull until the pin locks into position.

Lower The Platform Railing

NOTE: Optional on 1532ES and 1932ES.

**WARNING !!!**

Do Not elevate platform unless guardrails are installed and secure.

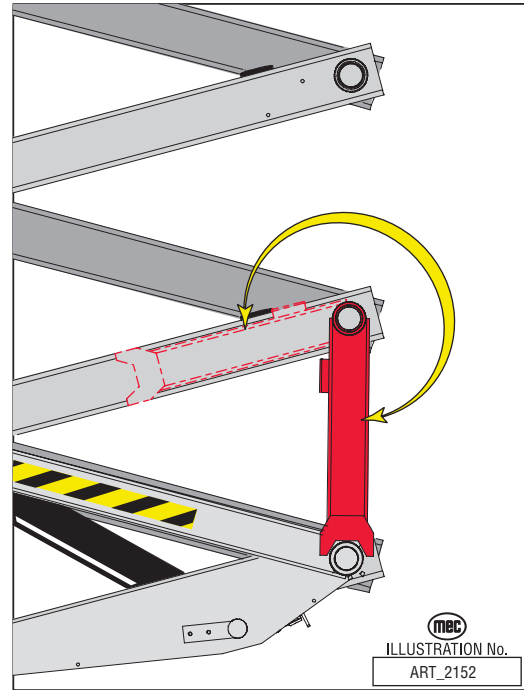
- ◆ Place the platform control console on the platform floor.
- ◆ Remove pins from rear railing. Lift rail and pivot forward and place on platform floor.
- ◆ Remove safety snap pins from extension side rails. Rotate rails down.
- ◆ Remove safety snap pins from front panel and fold rail down.
- ◆ Remove safety snap pins from main platform side rails and fold rails down.
- ◆ To return the machine to normal operation mode position/ install all railings securely.
- ◆ Position platform control console.

Set Maintenance Lock

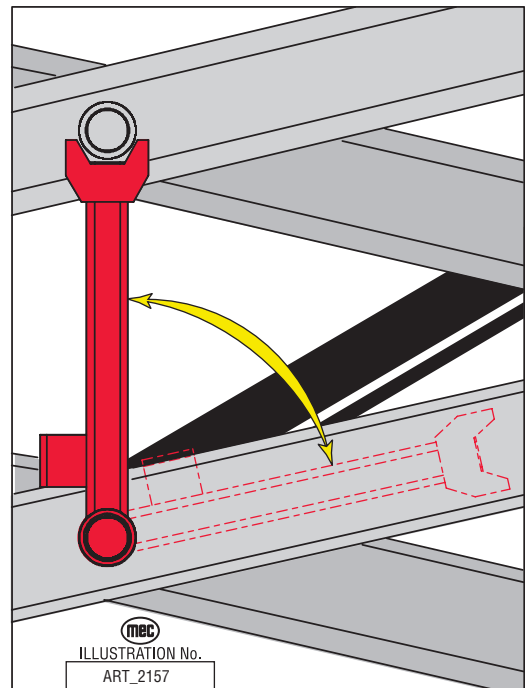
Set the maintenance lock before inspecting any items inside or around scissor beams, or beneath the platform.

- ◆ Elevate the platform about halfway.
- ◆ Rotate the maintenance lock into position.
- ◆ Lower platform until the scissor assembly is supported by the maintenance lock.

Maintenance Lock: 1532ES - 1932ES & 2033ES - 2633ES



Maintenance Lock: 2047ES - 2647ES - 3247ES



Emergency Systems And Procedures

WARNING !!!

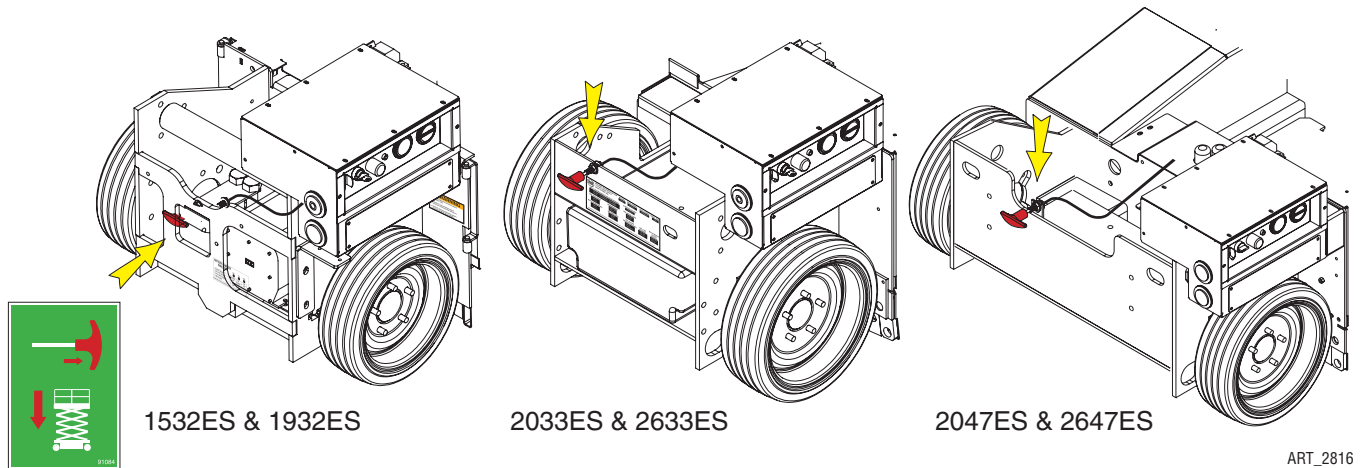
If the control system fails while the platform is elevated, have an experienced operator use the emergency lowering procedure to safely lower the platform.

Do not attempt to climb down beams (scissor assembly).

Emergency Lowering -

**1532ES - 1932ES
2033SE - 2633ES
2047SE - 2647ES**

Emergency Down system is used to lower the platform in case of power or valve failure. To lower the platform, pull the red "T" handle located at the rear of the machine. Lowering stops when you release the "T" handle.



Emergency Lowering -

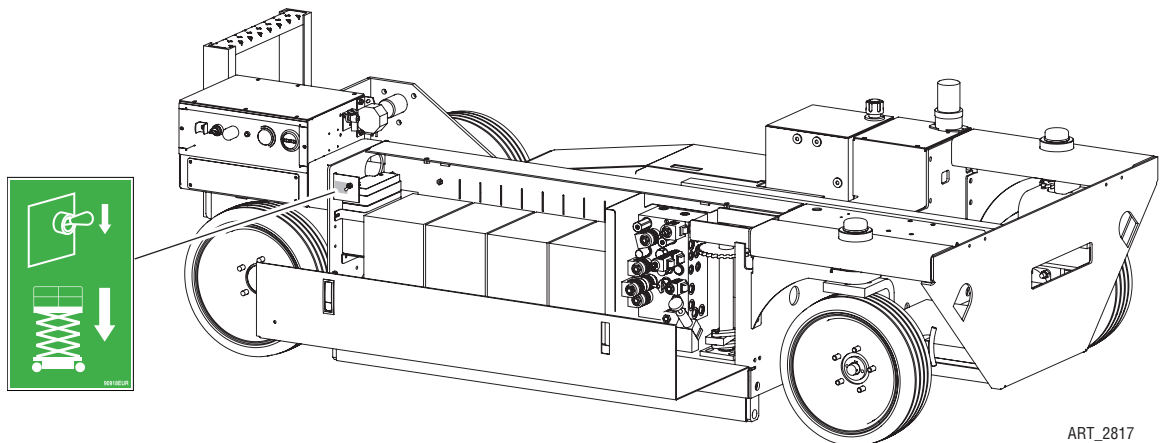
2047ES - 2647ES - 3247ES

WARNING !!!

Before lowering platform, retract the deck extension.

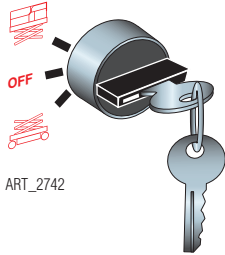
The Emergency Down System is used to lower the platform in case of power or valve failure. To lower the platform, perform the following steps:

1. Push and hold the toggle switch down to lower the platform.
2. Once the platform is fully lowered, release the toggle switch to close the valve.

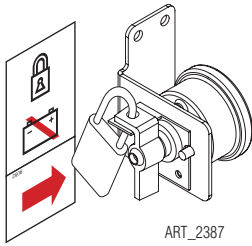


Shutdown Procedure

- ◆ When finished with the machine, fully lower the platform to the stowed position.
- ◆ Park the machine on a level surface.
- ◆ Carefully exit the platform using a constant three (3) point dismount/grip.
- ◆ Turn the selector switch at the lower control station to the OFF position and remove the key to prevent unauthorized use.
- ◆ Turn the battery disconnect switch to the OFF position.



NOTE: Leaving the battery disconnect switch in the ON position for an extended time will drain the battery. Always put the switch in OFF position when leaving the machine at the end of the work day.



MAINTENANCE

Regular inspection and conscientious maintenance is the key to efficient economical operation of your scissor lift. It will help to assure that your equipment will perform satisfactorily with a minimum of service and repair.

The actual operating environment of the machine governs the inspection schedule. Correct lubrication is an essential part of the preventative maintenance to minimize wear on working parts and ensure against premature failure. By maintaining correct lubrication, the possibility of mechanical failure and resulting downtime is reduced to a minimum.

- ◆ Block scissor assembly using Maintenance Lock if machine is in the elevated/extended position.
- ◆ Never leave hydraulic components or hoses open. They must be protected from contamination (including rain) at all times.
- ◆ Never open a hydraulic system when there are contaminants in the air.
- ◆ Always clean the surrounding area before opening hydraulic systems.
- ◆ Use only recommended lubricants. Improper lubricants or incompatible lubricants may be as harmful as no lubrication.
- ◆ Watch for makeshift “fixes” which can jeopardize safety as well as lead to more costly repair.



! DANGER !

NEVER PERFORM SERVICE ON THE MACHINE WITH THE PLATFORM ELEVATED WITHOUT FIRST BLOCKING THE SCISSOR ASSEMBLY IN PLACE USING THE MAINTENANCE LOCK!



! WARNING !!!

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



! CAUTION

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

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

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

Fluid leaks under pressure may not always be visible. Check for pin hole leaks with a piece of cardboard, not your hand.

Charging The Batteries

CAUTION

The use of an improper extension cord could result in a risk of fire or electric shock.

WARNING !!!

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

No smoking !

WARNING !!!

Do not operate the unit while charging.




Be sure to disconnect the charger from the outlet before moving the unit.

The use of long extension cords with the charger should be minimized. If an extension cord is used, ensure that it has three conductors with a ground and that the wire size and length meet your electrical code for the voltages and currents of the Electrical Specifications table. Locate all cords so that they will not be driven over, stepped on, tripped over, or otherwise subjected to damage or stress.

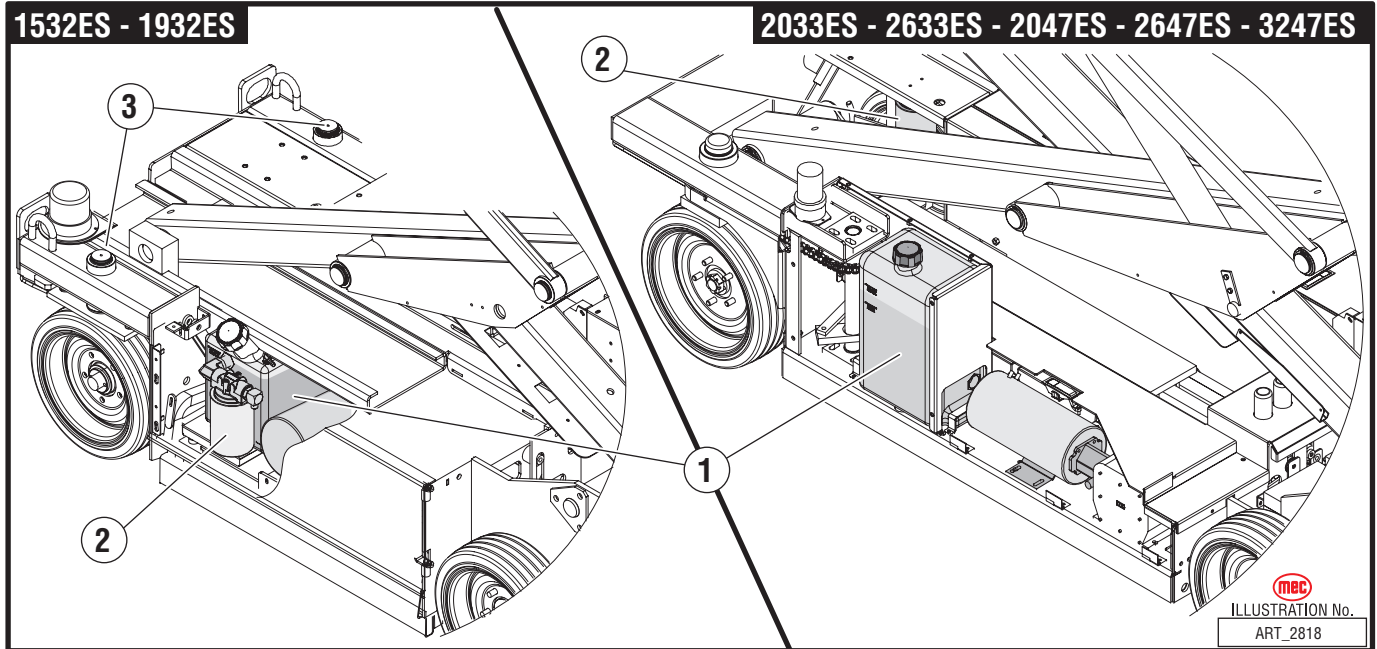
Connect the power supply cord to a properly grounded 100 Volt / 50 or 60 Hz, 115 Volt / 60 Hz, or 230 Volt / 50 or 60 Hz socket. This charger automatically senses and adjusts to the AC input voltage range.

The charger will start automatically within four to six seconds. The charger will start even with severely discharged batteries (down to 1 volt terminal voltage). Once charging starts, the LEDs indicate the charging progress as described in the following Charging State table. If all 3 LEDs blink together there is a problem (refer to the *Service and Parts* manual). The charger goes into an equalizing charge mode after the batteries are charged and all 3 LEDs are ON. The charger will continue to charge at a low current then shut-off automatically when complete.

Charging State & LED Display

		50 %	75 %	100 %
Charging State	LED			
0 to 50 % charged		Blinking	OFF	OFF
50 % to 75 % charged		ON	Blinking	OFF
75 % to 100 % charged		ON	ON	Blinking
100 % charged		ON	ON	ON
Abnormal Cycle		OFF	OFF	Blinking

Lubrication Diagram



NO.	ITEM	SPECIFICATION	FREQUENCY OF LUBRICATION
1	Hydraulic Reservoir	Fill to the top of the sight gauge with platform in the stowed position Anti-Wear 150 SSU (ISO 32/mil spec 0-5606) <i>Do not substitute with lower grade fluids as pump damage may result</i>	Check daily Change yearly or every 1,000 hours, whichever occurs first
2	Hydraulic Filter	Filter Element	Normal Usage Change every six months or 500 hours, whichever occurs first Severe Usage Change every three months or 300 hours, whichever occurs first
3	Wheel Motor Mount	<i>1532ES and 1932ES ONLY</i> Lithium N.L.G. #2 EP purge old grease	Weekly or every 25 Hours, whichever occurs first

PRESTART INSPECTION



This inspection must be completed before machine use each day or at the beginning of each shift. Failure to do so could result in death or serious injury.

- ◆ User/Operator is responsible for the Pre-Start Inspection.
- ◆ Keep inspection records up-to-date.
- ◆ Record and report all discrepancies to your supervisor.

MODEL NUMBER _____ **SERIAL NUMBER** _____

INITIAL	DESCRIPTION
_____	1. Perform a visual inspection of all machine components, i.e. missing parts, torn or loose hoses, hydraulic fluid leaks, torn or disconnected wires, damaged tires etc. Replace components as necessary.
_____	2. Check the hydraulic fluid level with the platform fully lowered.
_____	3. Check the tires for damage. Check wheel lug nuts for tightness.
_____	4. Check the hoses and the cables for worn areas or chafing. Replace if necessary.
_____	5. Check the platform rails and entry safety chain or gate for damage.
_____	6. Check the pivot pins for security.
_____	7. Check that all warning and instructional labels are legible and secure.
_____	8. Inspect the upper control. Ensure the load capacity is clearly marked.
_____	9. Check the hydraulic system pressure (See <i>Specifications</i>). If the pressure is low, determine the reason and repair in accordance with accepted procedures as outlined in the service manual.
_____	10. Check the lower controls for proper operation. Check all switches and push buttons for proper operation.
_____	11. Check the upper controls for proper operation. Check all switches and push buttons, as well as ensuring that the drive controller returns to neutral.

DATE _____ **INSPECTED BY** _____



FREQUENT INSPECTION



This checklist must be used at 3 month intervals or every 150 hours, whichever occurs first, or if a machine has been out of service for greater than 3 months. Failure to do so could result in death or serious injury.

- ◆ User/Operator is responsible for the Frequent Inspection.
- ◆ The inspection must be performed by a person(s) qualified as a mechanic on this specific make and model of aerial work platform.
- ◆ Keep inspection records up-to-date.
- ◆ Record and report all discrepancies to your supervisor.

MODEL NUMBER _____ **SERIAL NUMBER** _____

INITIAL	DESCRIPTION
_____	1. Perform all checks listed on Prestart Inspection.
_____	2. Inspect the condition of hydraulic fluid in the reservoir. Oil should have a clear amber color.
_____	3. Check battery electrolyte level and connections.
_____	4. Inspect the entire machine for signs of damage, broken welds, loose bolts, improper or makeshift repairs.
_____	5. Check the pin joints and retaining rings for security.
_____	6. Check if tires are leaning in or out.
_____	7. Check that all adjustable flow valves are locked, check setting if any are not locked.
_____	8. Check that the platform does not drift down with a full load.
_____	9. Check the electrical motor brushes.

DATE _____ **INSPECTED BY** _____



ANNUAL INSPECTION



This inspection must be completed no later than 13 months from the prior annual inspection. Failure to do so could result in death or serious injury.

- ◆ User/Operator is responsible for the Weekly Inspection.
- ◆ The inspection must be performed by a person(s) qualified as a mechanic on this specific make and model of aerial work platform.
- ◆ Keep inspection records up-to-date.
- ◆ Record and report all discrepancies to your supervisor.

MODEL NUMBER _____ **SERIAL NUMBER** _____

ANNUAL INSPECTION TO BE PERFORMED IN ACCORDANCE WITH THE ANNUAL INSPECTION REPORT SHOWN ON THE FOLLOWING PAGE.

ANNUAL INSPECTION

Annual Inspection Report



Aerial Platform Sales Corp.

1775 Park Street, Suite 77 • Selma, CA 93662 USA
800-387-4575 • 559-891-2488 • Fax: 559-891-2493

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

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

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

- Check each item listed below.
- Use proper Operator's, Service and Parts manual for specific information and settings.
- If an item is found to be "Unacceptable" make the necessary repairs and check the "Repaired" box.
- When all items are "Acceptable", the unit is ready for service.
- Please fax a copy to MEC at (559) 891-2488 or email to EMAIL ADDRESS

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 Libed (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				
Scissors:					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: _____

TROUBLESHOOTING

! WARNING !!!

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

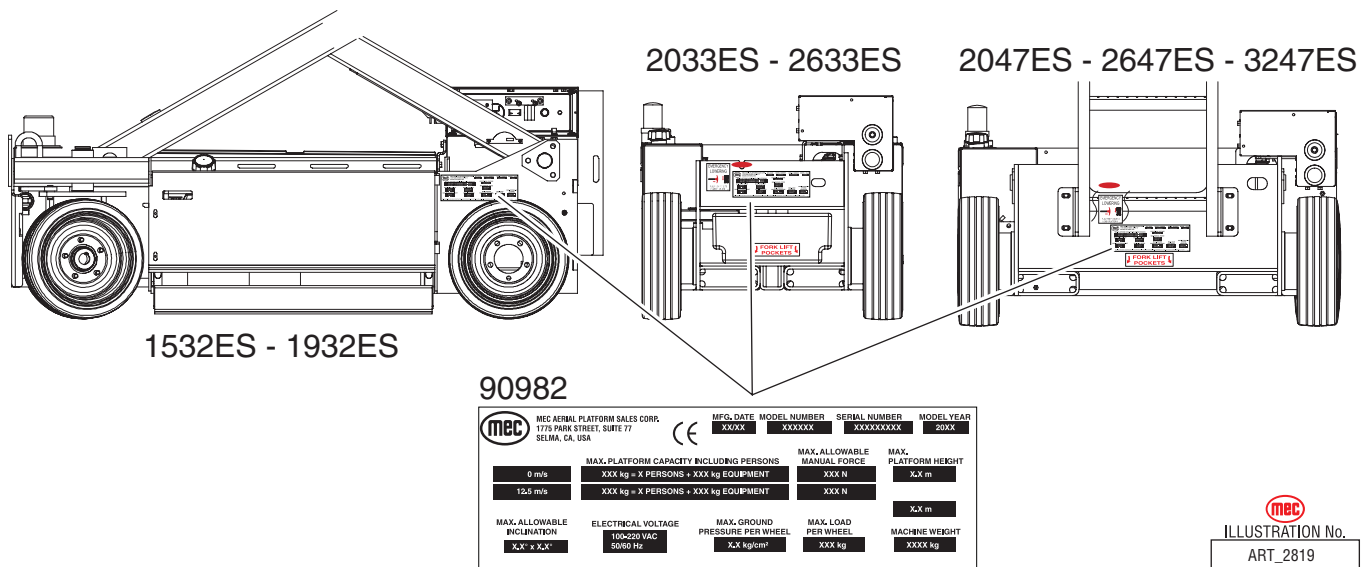
Call for assistance and report the incident to your supervisor, and do not use the machine until it has been checked by a trained, qualified mechanic.

What to check if machine will not operate

- ◆ Battery cutoff switch?
- ◆ Is a function toggle switch or the enable switch not activated?
- ◆ Is the Base/Platform switch in the proper position?
- ◆ Batteries fully charged?
- ◆ Emergency stop buttons at both base and platform activated? (Rotate clockwise to release).
- ◆ Hydraulic fluid level low?
- ◆ Obvious fluid leak or damaged component?
- ◆ Are any wires pulled out or loose?

Serial Plate

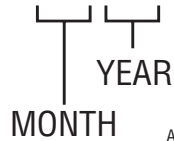
The serial plate is attached to the machine at the time of manufacture. Important information about the machine is recorded on the serial plate.



Serial Plate Item Information Defined

MFG DATE

XX/XX



ART_2377

MFG DATE

Month / Year of manufacture.

MODEL NUMBER

Identifies the machine.

SERIAL NUMBER

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

MODEL YEAR

Reflects period from JULY 1 through JUNE 1.
(Example: 08/07 = Model Year 2008)

MAX. WIND SPEED

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

MAX. PLATFORM CAPACITY INCLUDING PERSONS

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

MAX. ALLOWABLE MANUAL FORCE

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

MAX. ALLOWABLE INCLINATION

The maximum safe grade at which the machine can be elevated.

MAX. PLATFORM HEIGHT

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

MAX. DRIVE HEIGHT

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

MAX. LOAD PER WHEEL

The maximum safe weight applied to each wheel. Calculated with all available options installed.

$$Fw = 30\% (Wm + Wc + Wopt)$$

MAX. GROUND PRESSURE PER WHEEL

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

$$Pmax = 30\% (Wm + Wc + Wopt) / \text{Contact Area}$$

MACHINE WEIGHT

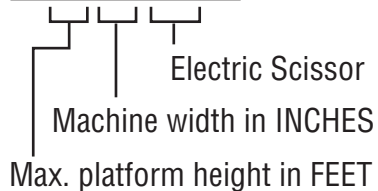
The weight of the machine with no options.

OPTIONAL EQUIPMENT ADDS TO STANDARD MACHINE WEIGHT

The weight of installed optional equipment.

MODEL NUMBER

3247ES



ART_2820

TRANSPORT AND LIFTING INSTRUCTIONS

! WARNING !!!

Only qualified riggers should rig and lift the machine.

Be sure the forklift or crane capacity, loading surfaces, and straps or lines are sufficient to withstand the machine weight. See the serial plate for the machine weight.

Lift using a Forklift

- ◆ Fully lower the platform. Be sure the extension deck, controls and module doors are secure. Remove all loose items on the machine.
- ◆ Adjust the forks to enter the forklift pockets at the rear of the machine

Lift using a Crane

- ◆ Fully lower the platform. Be sure the extension deck, controls and module doors are secure. Remove all loose items on the machine.
- ◆ Determine the center of gravity of the machine using the table and picture on this page.
- ◆ Attach the rigging only to the designated lifting points on the machine (see illustration).
- ◆ Adjust the rigging to prevent damage to the machine and to keep the machine level.

Center of Gravity		
Model	X Axis	Y Axis
1532ES	61cm	46cm
1932ES	61cm	48cm
2033ES	86cm	50cm
2633ES	86cm	52cm
2047ES	90cm	52cm
2647ES	90cm	54cm
3247ES	90cm	60cm

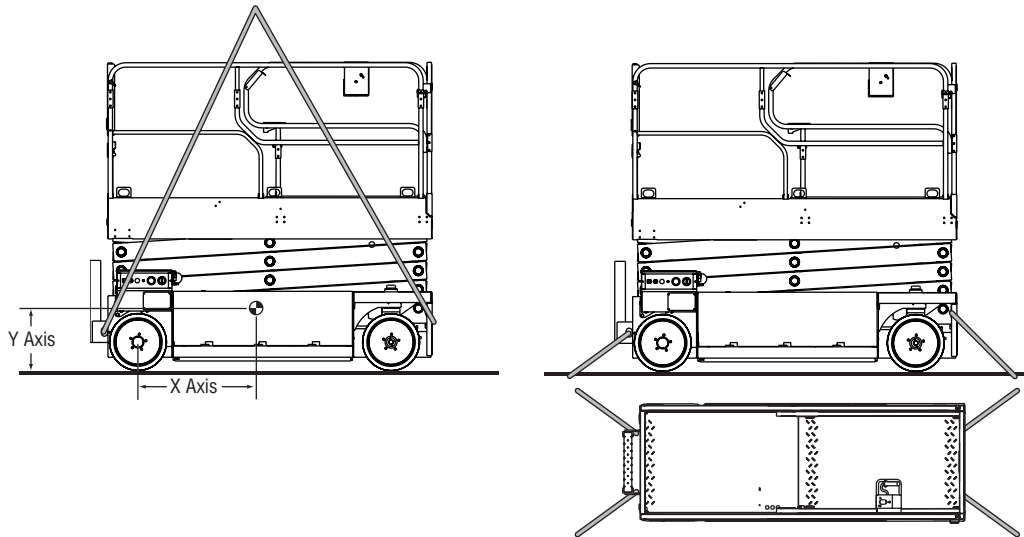


ILLUSTRATION No.
ART_2821

Securing to Truck or Trailer for Transport

- ◆ Always lock the extension deck in the retracted position when the machine is transported.
- ◆ Turn the key switch to the OFF position 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 chains or straps.
- ◆ Adjust the rigging to prevent damage to the chains and the machine.



Loading and Unloading Procedures

! WARNING !!!

We do not recommend unassisted loading or unloading.

Always attach the machine to a winch when loading or unloading from a truck or trailer if driven off.

Read and understand all safety, control, and operating information found on the machine and in this manual before operating the machine.

Driving

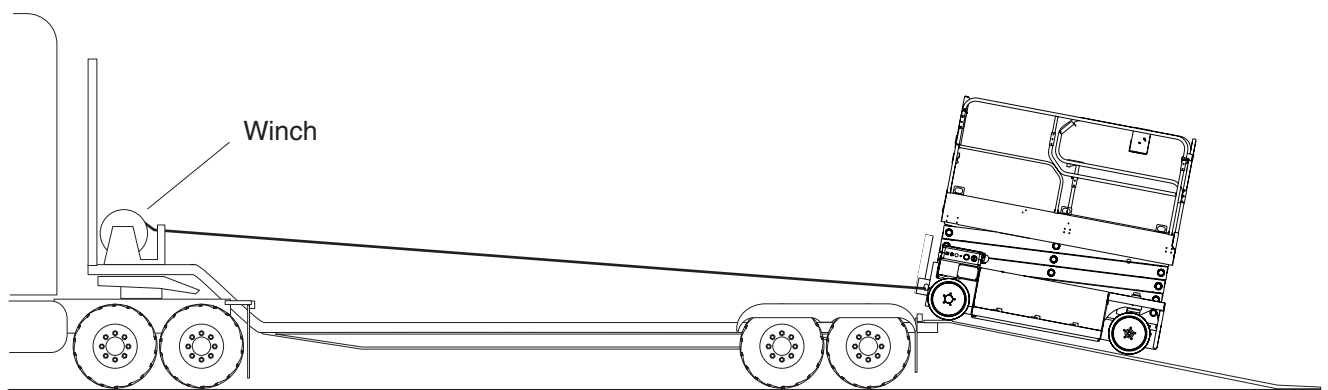
- ◆ Inspect the outside of the machine for damage. Inspect all hoses and cables for chafing or road damage. Confirm that all wheel lug nuts are tight.
- ◆ Open side compartments. Inspect all electrical and hydraulic connections for damage and security.
- ◆ Turn battery switch to ON position. Check electrolyte level.
- ◆ Check that fluid level is to the fill mark on the hydraulic tank and add fluid as required.
- ◆ Close side compartments.
- ◆ Attach the machine to a winch for the unloading.
- ◆ Remove all machine tie downs. Remove wheel chocks, if used. Turn the BASE/PLATFORM selector switch to the PLATFORM position.
- ◆ Enter the platform, reset EMERGENCY STOP switch (rotate clockwise and release). Test all platform functions.
- ◆ Carefully drive the machine off the truck or trailer with the winch attached.

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

Winching

Before towing or winching the machine it is necessary to manually release the brake. Reset the brakes after towing or winching.

Refer to *Towing the Machine* on the following page.



ART_2822

Towing the Machine

**CAUTION**

Prior to manually releasing brakes, ensure wheels are chocked to prevent machine from moving.

The machine can be winched or towed short distances in case of power failure at speeds not to exceed 5 MPH (8.05 kph).

Before towing or winching the machine it is necessary to manually release the brake. Reset the brakes after towing or winching.

Disengage Brakes Before Towing or Winching

- Chock the wheels.
- Open the tow valve by turning counter-clockwise.
- Push in the manual Brake Release valve located on the main manifold.
- Using the hand pump on the manifold, pump valve until pressure is built.
- Machine is now ready for towing

Engage Brakes Before Driving

**DANGER**

RUNAWAY HAZARD
AFTER RELEASING THE
BRAKES, THERE IS
NOTHING TO STOP
MACHINE TRAVEL.
MACHINE WILL ROLL
FREELY ON SLOPES.

- Close the tow valve by turning clockwise.
- Brakes will reset when drive function is activated or reset by pulling on manual brake release valve.
- Machine is now ready for driving.



LIMITED OWNER WARRANTY

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



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