



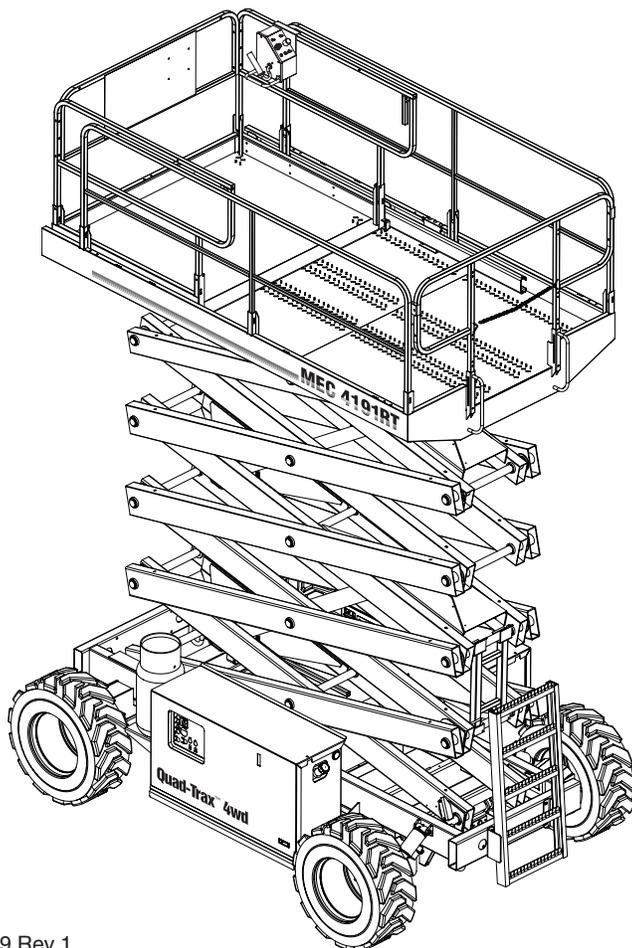
# 2591RT

# 3391RT

# 4191RT

## OPERATOR'S MANUAL

This Operator's Manual  
**MUST BE READ AND UNDERSTOOD**  
prior to operating your  
MEC Aerial Work Platform



Part # 91479 Rev 1  
Issued August 2007

**Serial Number Range**  
2591RT - 9401000 - Present  
3391RT - 9501000 - Present  
4191RT - 9601000 - Present



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# 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.**

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# MACHINE SPECIFICATIONS

	2591RT		3391RT		4191RT	
Working Height*	31 FT	9.45 m	39 FT	11.89 m	47 FT	14.33 m
Platform Height	25 FT	7.62 m	33 FT	10.06 m	41 FT	12.50 m
Platform Entry Height	66 IN	1.7 m	66 IN	1.7 m	75 IN	1.90 m
Stowed Height						
Rails Up	100.5 IN	2.6 m	109.5 IN	2.8 m	106.75 IN	2.71 m
Rails Folded Down	71 IN	1.8 m	79 IN	2 m	87.5 IN	2.22 m
Maximum Number of Occupants	5	5	4	4	4	4
Lift Capacity (Evenly Distributed)	2000 LB	907 kg	1500 LB	680 kg	1000 LB	454 kg
Roll-out Deck Capacity	500 LB	227 kg	500 LB	227 kg	500 LB	227 kg
Platform Dimensions						
With Roll-Out Deck Extended	180 IN	4.6 m	180 IN	4.6 m	180 IN	4.6 m
With Roll-Out Deck Retracted	132 IN	3.35 m	132 IN	3.35 m	132 IN	3.35 m
Deck Width	72 IN	1.83 m	72 IN	1.83 m	72 IN	1.83 m
Guardrail Height	44.5 IN	1.13 m	44.5 IN	1.13 m	44.5 IN	1.13 m
Toeboard Height	7.0 IN	18 cm	7.0 IN	18 cm	7.0 IN	18 cm
Roll-out Deck Length	48 IN	1.22 m	48 IN	1.22 m	48 IN	1.22 m
Overall Length	144 IN	3.66 m	144 IN	3.66 m	144 IN	3.66 m
With Outriggers	180 IN	4.6 m	180 IN	4.6 m	180 IN	4.6 m
Overall Width	91 IN	2.3 m	91 IN	2.3 m	91 IN	2.3 m
Wheel Base	102.5 IN	2.6 m	102.5 IN	2.6 m	102.5 IN	2.6 m
Wheel Track	78.5 IN	2.0 m	78.5 IN	2.0 m	78.5 IN	2.0 m
Turning Radius						
Inside	76 IN	1.93 m	76 IN	1.93 m	76 IN	1.93 m
Outside	195 IN	4.95 m	195 IN	4.95 m	195 IN	4.95 m
Ground Clearance	12.0 IN	30.5 cm	12.0 IN	30.5 cm	12.0 IN	30.5 cm
Machine Weight** (Unloaded) (Approx.)	8,000 LB	3629 kg	8,700 LB	3946 kg	9,700 LB	4400 kg
Drive System (Proportional)	2 Wheel Drive Standard, 4 Wheel Drive Option					
Drive Speed (Platform Elevated)	0 – 0.8 MPH	0 – 1.3 km/h	0 – 0.8 MPH	0 – 1.3 km/h	0 – 0.8 MPH	0 – 1.3 km/h
Drive Speed (Platform Lowered)	0 – 3.8 MPH	0 – 6.1 km/hr	0 – 3.8 MPH	0 – 6.1 km/hr	0 – 3.8 MPH	0 – 6.1 km/hr
Brakes	Multi disc	Multi disc	Multi disc	Multi disc	Multi disc	Multi disc
Lift/Lower Speed (Approx.)	25 sec / 30 sec	25 sec / 30 sec	33 sec / 35 sec	33 sec / 35 sec	40 sec / 50 sec	40 sec / 50 sec
Gradeability	45% / 24.2°	45% / 24.2°	45% / 24.2°	45% / 24.2°	45% / 24.2°	45% / 24.2°
Ground Pressure/Wheel (Maximum)	115 PSI	8.05 kg/cm <sup>2</sup>	120 PSI	8.4 kg/cm <sup>2</sup>	125 PSI	8.75 kg/cm <sup>2</sup>
Tire Size-Standard	12-16.5 NHS "Outrigger"		12-16.5 NHS "Outrigger"		12-16.5 NHS "Outrigger"	
Tire Pressure, 12 Ply Pneumatic	80 PSI	5.5 bar	80 PSI	5.5 bar	80 PSI	5.5 bar
12 Ply Foam-Filled	Foam-Filled	Foam-Filled	Foam-Filled	Foam-Filled	Foam-Filled	Foam-Filled
Wheel Load	3458 LB	1568 kg	3518 LB	1596 kg	3668 LB	1664 kg
Wheel Lug Nut Torque	150-165 FT/LB	204-225 Nm	150-165 FT/LB	204-225 Nm	150-165 FT/LB	204-225 Nm
Hydraulic Pressure						
Main System	3000 PSI	207 bar	3000 PSI	207 bar	3000 PSI	207 bar
Lift System	2500 PSI	172 bar	2650 PSI	183 bar	2500 PSI	172 bar
Steer	1500 PSI	103 bar	1500 PSI	103 bar	1500 PSI	103 bar
Hydraulic Fluid Capacity	23 GAL	87 liters	23 GAL	87 liters	23 GAL	87 liters
Fuel Capacity	15 GAL	57 liters	15 GAL	57 liters	15 GAL	57 liters
Power System – Voltage	12 Volts DC	12 Volts DC	12 Volts DC	12 Volts DC	12 Volts DC	12 Volts DC
Alternator (Lighting Coil)	40 Amp	40 Amp	40 Amp	40 Amp	40 Amp	40 Amp
Engine Availability	Standard	Kubota DF752E, 22 HP (16.4 kW), Dual Fuel, Liquid Cooled				
Option		Kubota D1105, 25 HP (8,7kW), Diesel, Liquid Cooled				
Meets requirements of ANSI A92.6-2006 Section 4.						
*Working height adds 6 feet (1.83 m) to platform height.						
**Weight may increase with certain options or country standards.						



A large, stylized red graphic consisting of two overlapping, curved shapes that form a circular frame around the text.

**SECTION 1:  
SAFETY**

# SAFETY SYMBOLS

This section of the manual contains important information of the safe use of your MEC Scissors. 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:



**“DANGER” 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.**



**“WARNING” INDICATES A POTENTIALLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.**

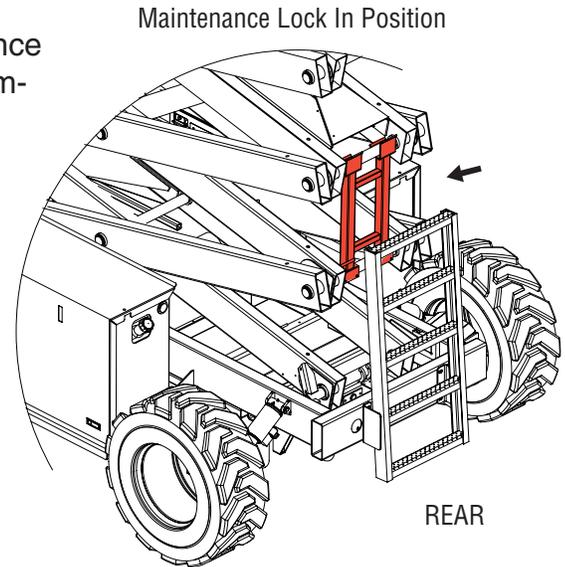


**“CAUTION” indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. “CAUTION” is used for property-damage only accidents.**



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

- ALWAYS Block scissors assembly using Maintenance Lock when working in or around the scissors assembly if machine is in the elevated/extended position.
- 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.

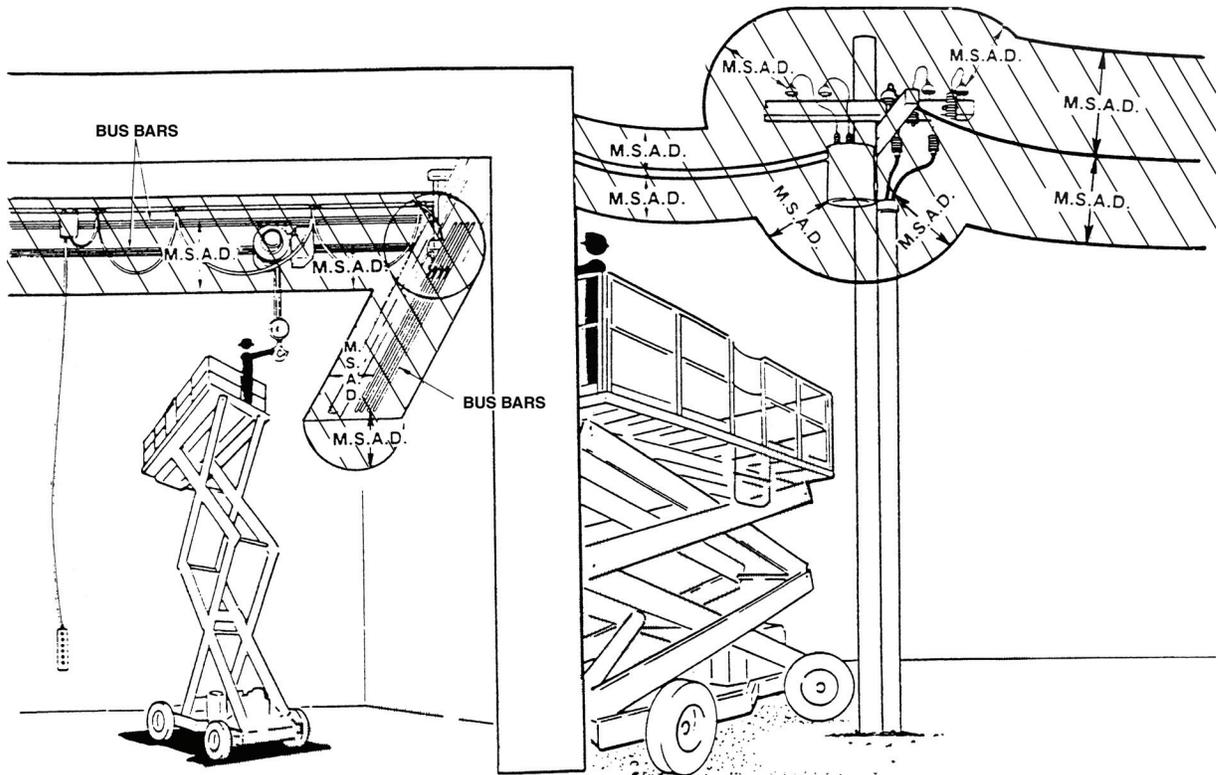


# SAFETY RULES AND PRECAUTIONS

- 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.
- ANSI A92.6 and other applicable standards identify requirements of all parties who may be involved with self-propelled elevating work platforms. The A92.6 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 insure safe use of machine, inspections specified in Section 6.7 of ANSI A92.6-2006 must be performed at designated intervals as prescribed by ANSI A92.6-2006.



- **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.



**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



- 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.
- 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.



- **UNASSISTED LOADING OR UNLOADING OF SCISSOR LIFT FROM A TRUCK OR TRAILER IS NOT RECOMMENDED.**
- Before disengaging brakes or disconnecting from a tow vehicle, ensure that the machine cannot roll.
- Complete the “Operational Checklist” at designated intervals.



- Use of scissor lift as a crane to lift oversized or hanging loads is prohibited.
- Always check 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.

### OUTRIGGER OPTION

- 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

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**.

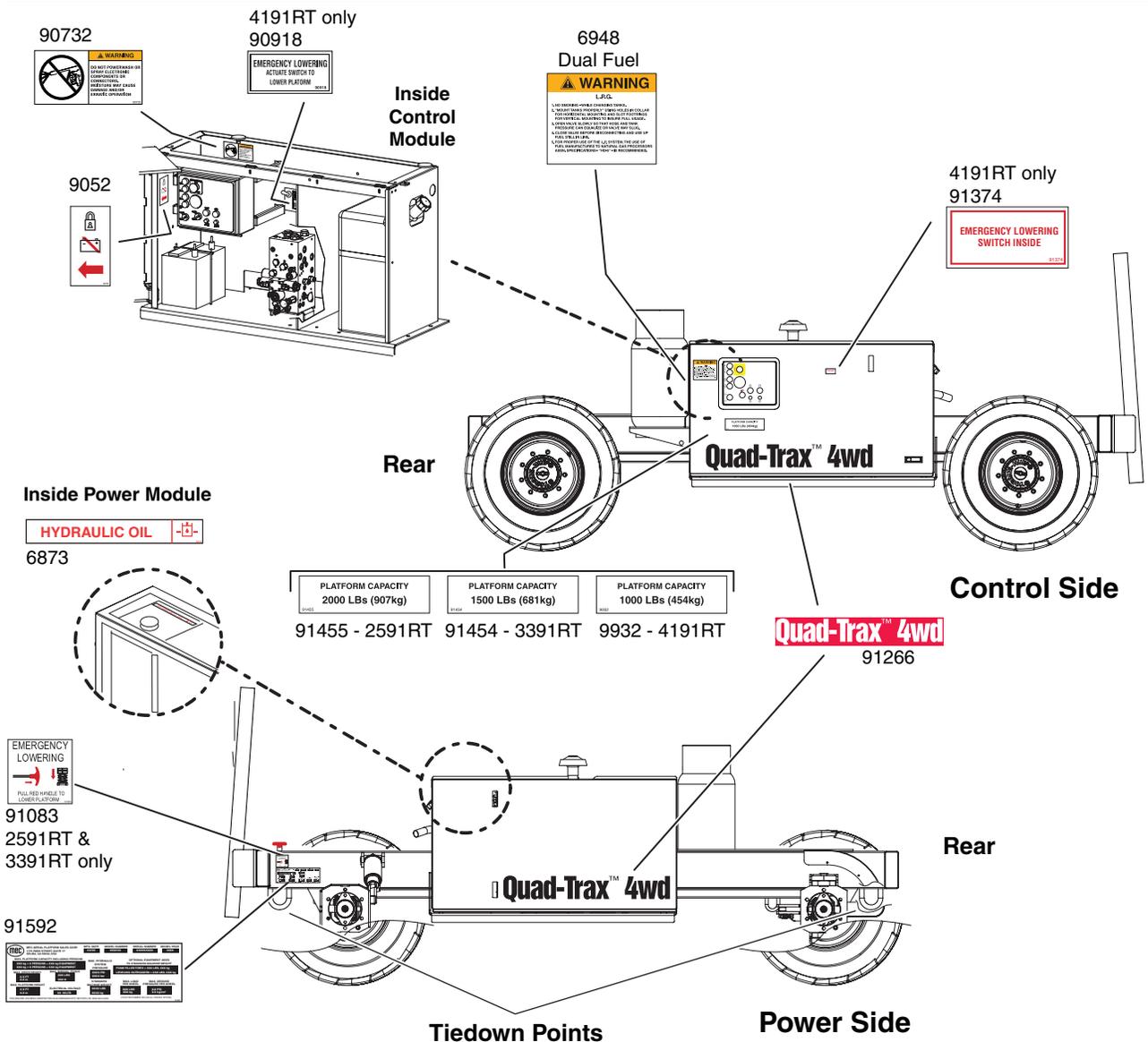
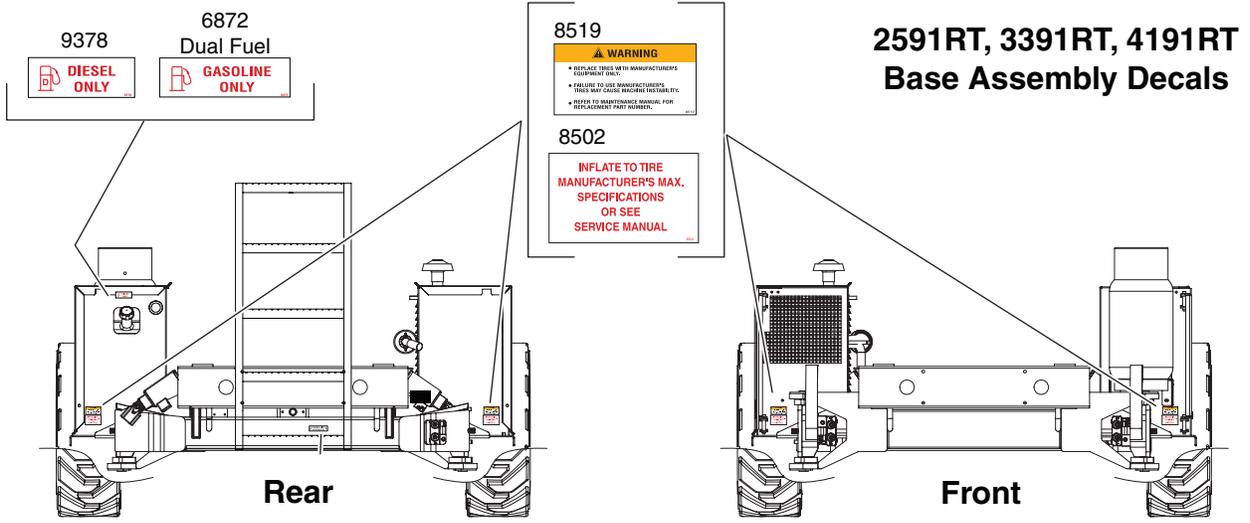
Lanyard anchorage points on this type of equipment are not required to conform to the applicable ANSI/SIA Standard.



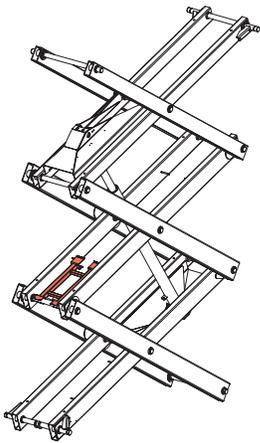
- **THE IMPROPER USE OF FALL ARREST SYSTEMS MAY CAUSE MACHINE TO TIP RESULTING IN SERIOUS INJURY OR DEATH.**



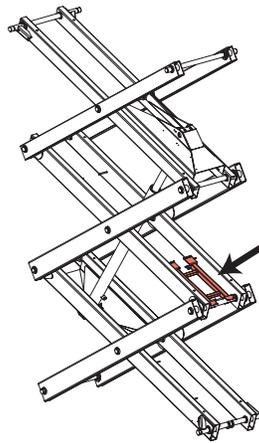
# SAFETY AND CONTROL DECAL LOCATIONS



# SAFETY AND CONTROL DECAL LOCATIONS

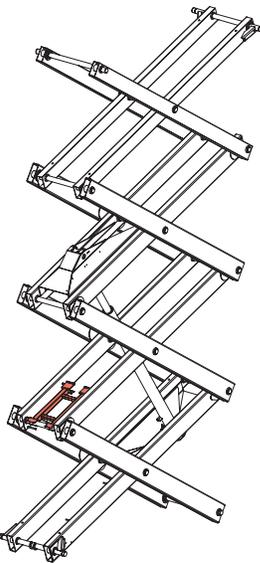


**2591RT  
Scissors**

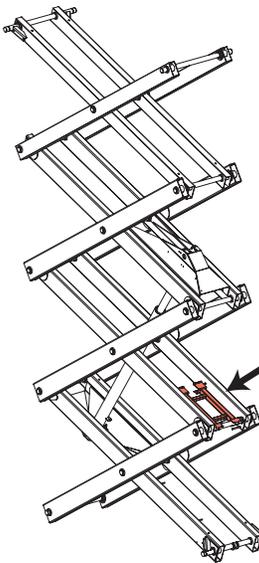


Maintenance Lock  
Stowed

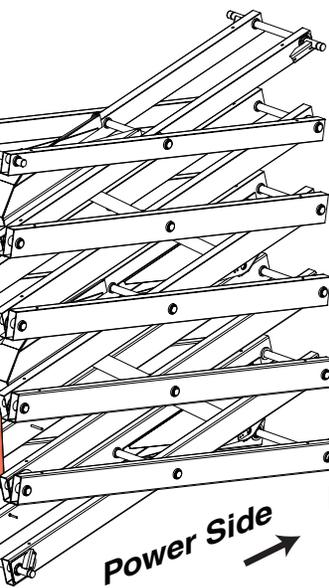
## 2591RT, 3391RT, 4191RT Scissors Assembly Decals



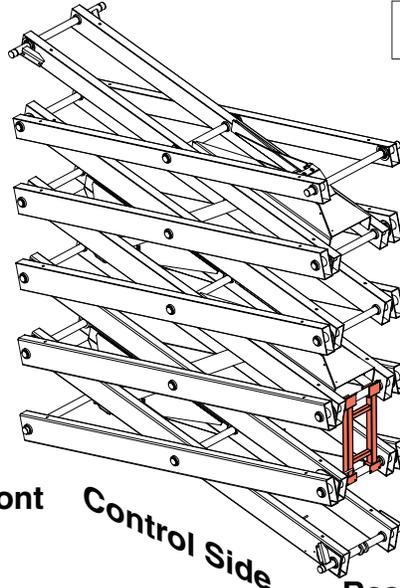
**3391RT  
Scissors**



Maintenance Lock  
Stowed



**4191RT  
Scissors**

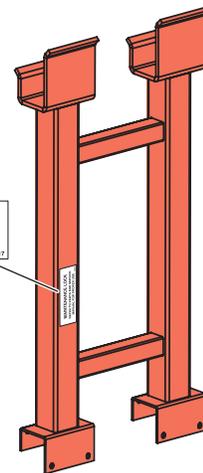


Maintenance Lock  
Engaged

Rear **Power Side** →

→ **Front Control Side** Rear

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



# SAFETY AND CONTROL DECAL LOCATIONS

## 2591RT, 3391RT, 4191RT Platform Assembly Decals

91456

**WARNING**

INSPECT MACHINE AND MAKE SURE THAT IT IS OPERATING PROPERLY THAT ALL NAME PLATE AND SAFETY AND CONTROL DECALS ARE IN PLACE AND LEGIBLE, AND THAT THE MACHINE IS IN ACCORDANCE WITH THE MANUFACTURER'S MAINTENANCE REQUIREMENTS CONTAINED IN THE OPERATION AND MAINTENANCE MANUAL, AND THE ONLY SAFETY CHECKLIST. OPERATE MACHINE WITH EXTREME CAUTION, WATCH FOR OBSTRUCTIONS WHEN ANY STEEL PLATFORM PERSONNEL, CONTROLS OR MACHINERY. OPERATE CONTROLS SLOWLY FOR SMOOTH PLATFORM MOVING.

FOR MORE INFORMATION ON THIS ISSUE:

**OTHER HAZARDS**

DO NOT OPERATE ON SLOPED SURFACES. DO NOT OPERATE ON UNSTABLE SURFACES. DO NOT OPERATE ON SURFACES WITH OBSTRUCTIONS. DO NOT OPERATE ON SURFACES WITH UNUSUAL LOADS. DO NOT OPERATE ON SURFACES WITH UNUSUAL GEOMETRIES. DO NOT OPERATE ON SURFACES WITH UNUSUAL MATERIALS. DO NOT OPERATE ON SURFACES WITH UNUSUAL CONDITIONS. DO NOT OPERATE ON SURFACES WITH UNUSUAL WEATHER. DO NOT OPERATE ON SURFACES WITH UNUSUAL LIGHTING. DO NOT OPERATE ON SURFACES WITH UNUSUAL NOISE. DO NOT OPERATE ON SURFACES WITH UNUSUAL VIBRATION. DO NOT OPERATE ON SURFACES WITH UNUSUAL TEMPERATURES. DO NOT OPERATE ON SURFACES WITH UNUSUAL HUMIDITY. DO NOT OPERATE ON SURFACES WITH UNUSUAL AIR QUALITY. DO NOT OPERATE ON SURFACES WITH UNUSUAL PARTICULATE. DO NOT OPERATE ON SURFACES WITH UNUSUAL GASES. DO NOT OPERATE ON SURFACES WITH UNUSUAL LIQUIDS. DO NOT OPERATE ON SURFACES WITH UNUSUAL SOLIDS. DO NOT OPERATE ON SURFACES WITH UNUSUAL BIOLOGICALS. DO NOT OPERATE ON SURFACES WITH UNUSUAL CHEMICALS. DO NOT OPERATE ON SURFACES WITH UNUSUAL RADIATION. DO NOT OPERATE ON SURFACES WITH UNUSUAL ELECTROMAGNETIC INTERFERENCE. DO NOT OPERATE ON SURFACES WITH UNUSUAL STATIC DISCHARGE. DO NOT OPERATE ON SURFACES WITH UNUSUAL ELECTRICITY. DO NOT OPERATE ON SURFACES WITH UNUSUAL MAGNETIC FIELDS. DO NOT OPERATE ON SURFACES WITH UNUSUAL GRAVITATIONAL FIELDS. DO NOT OPERATE ON SURFACES WITH UNUSUAL ACCELERATIONS. DO NOT OPERATE ON SURFACES WITH UNUSUAL DECCELERATIONS. DO NOT OPERATE ON SURFACES WITH UNUSUAL ANGULAR VELOCITIES. DO NOT OPERATE ON SURFACES WITH UNUSUAL ANGULAR ACCELERATIONS. DO NOT OPERATE ON SURFACES WITH UNUSUAL LINEAR VELOCITIES. DO NOT OPERATE ON SURFACES WITH UNUSUAL LINEAR ACCELERATIONS. DO NOT OPERATE ON SURFACES WITH UNUSUAL JERKS. DO NOT OPERATE ON SURFACES WITH UNUSUAL SHOCKS. DO NOT OPERATE ON SURFACES WITH UNUSUAL IMPACTS. DO NOT OPERATE ON SURFACES WITH UNUSUAL COLLISIONS. DO NOT OPERATE ON SURFACES WITH UNUSUAL PENETRATIONS. DO NOT OPERATE ON SURFACES WITH UNUSUAL CUTS. DO NOT OPERATE ON SURFACES WITH UNUSUAL SCALDS. DO NOT OPERATE ON SURFACES WITH UNUSUAL BURNS. DO NOT OPERATE ON SURFACES WITH UNUSUAL FROSTBITE. DO NOT OPERATE ON SURFACES WITH UNUSUAL HYPOTHERMIA. DO NOT OPERATE ON SURFACES WITH UNUSUAL HEATSTROKE. DO NOT OPERATE ON SURFACES WITH UNUSUAL DEHYDRATION. DO NOT OPERATE ON SURFACES WITH UNUSUAL EXHAUSTION. DO NOT OPERATE ON SURFACES WITH UNUSUAL FATIGUE. DO NOT OPERATE ON SURFACES WITH UNUSUAL STRESS. DO NOT OPERATE ON SURFACES WITH UNUSUAL ANXIETY. DO NOT OPERATE ON SURFACES WITH UNUSUAL DEPRESSION. DO NOT OPERATE ON SURFACES WITH UNUSUAL SUBSTANCE USE. DO NOT OPERATE ON SURFACES WITH UNUSUAL MENTAL HEALTH ISSUES. DO NOT OPERATE ON SURFACES WITH UNUSUAL PHYSICAL HEALTH ISSUES. DO NOT OPERATE ON SURFACES WITH UNUSUAL CHRONIC DISEASES. DO NOT OPERATE ON SURFACES WITH UNUSUAL ACUTE DISEASES. DO NOT OPERATE ON SURFACES WITH UNUSUAL INJURIES. DO NOT OPERATE ON SURFACES WITH UNUSUAL DEATHS.

**IMPROPER OPERATION OF THIS MACHINE  
COULD CAUSE DEATH OR SERIOUS INJURY.**

**DANGER**

YOU MUST NOT OPERATE THE MACHINE UNLESS YOU ARE QUALIFIED TO OPERATE THE MACHINE. THE MACHINE IS DESIGNED TO BE OPERATED BY ONE PERSON ONLY. DO NOT OPERATE THE MACHINE IF YOU ARE UNDER THE INFLUENCE OF ALCOHOL, DRUGS, OR MEDICATIONS THAT AFFECT YOUR ABILITY TO OPERATE THE MACHINE. DO NOT OPERATE THE MACHINE IF YOU ARE FATIGUED, STRESSED, OR EMOTIONALLY DISTURBED. DO NOT OPERATE THE MACHINE IF YOU ARE NOT PROPERLY TRAINED AND CERTIFIED TO OPERATE THE MACHINE. DO NOT OPERATE THE MACHINE IF YOU DO NOT UNDERSTAND THE OPERATING PROCEDURES AND SAFETY REQUIREMENTS. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OBSTRUCTIONS. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM POWER LINES. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER MACHINERY. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER PERSONNEL. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER VEHICLES. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER STRUCTURES. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER TERRAIN. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER WEATHER. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER LIGHTING. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER NOISE. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER VIBRATION. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER TEMPERATURES. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER HUMIDITY. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER AIR QUALITY. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER PARTICULATE. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER GASES. 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DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER ACCELERATIONS. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER DECCELERATIONS. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER ANGULAR VELOCITIES. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER ANGULAR ACCELERATIONS. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER LINEAR VELOCITIES. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER LINEAR ACCELERATIONS. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER JERKS. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER SHOCKS. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER IMPACTS. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER COLLISIONS. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER PENETRATIONS. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER CUTS. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER SCALDS. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER BURNS. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER FROSTBITE. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER HYPOTHERMIA. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER HEATSTROKE. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER DEHYDRATION. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER EXHAUSTION. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER FATIGUE. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER STRESS. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER ANXIETY. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER DEPRESSION. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER SUBSTANCE USE. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER MENTAL HEALTH ISSUES. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER PHYSICAL HEALTH ISSUES. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER CHRONIC DISEASES. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER ACUTE DISEASES. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER INJURIES. DO NOT OPERATE THE MACHINE IF YOU DO NOT HAVE ADEQUATE CLEARANCE FROM OTHER DEATHS.

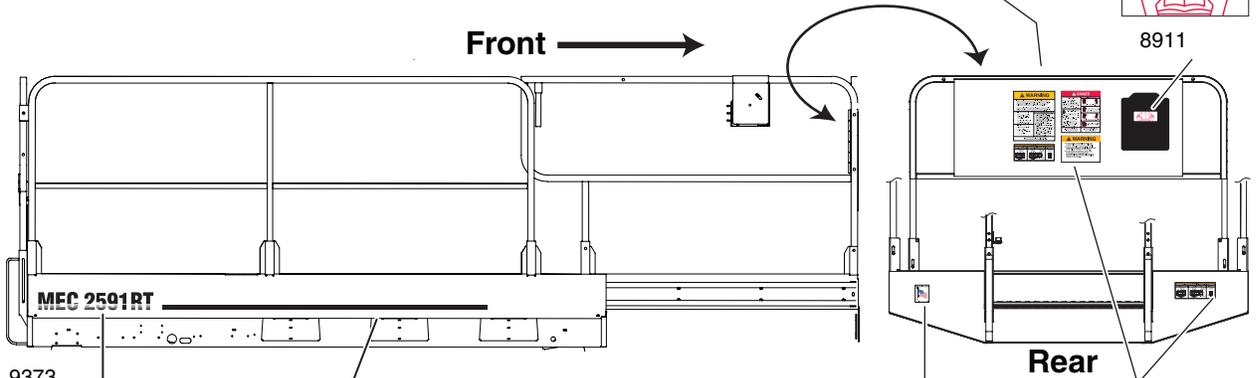
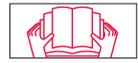
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**WARNING**

PLATFORM EXTENSION MUST BE LOCKED IN PLACE AT ALL TIMES. SHEET LOADING GATE MUST BE IN LOWERED LOCKED POSITION BEFORE OPERATING FROM PLATFORM. PLATFORM ENTRANCE MUST BE PROPERLY CLOSED AND ALL GUARDRAILS PROPERLY IN PLACE AND SECURED BEFORE OPERATING FROM PLATFORM.

FAILURE TO FOLLOW INSTRUCTIONS COULD CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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**MEC 2591RT**

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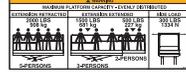
9372  
**MEC 3391RT**

9371  
**MEC 4191RT**

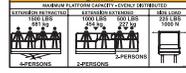


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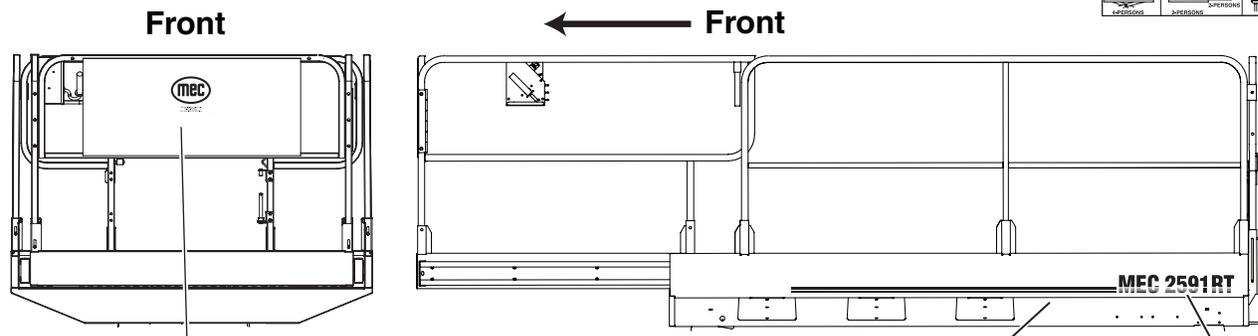
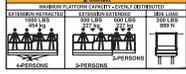
2591RT 91453



3391RT 91452



4191RT 91548



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9373  
**MEC 2591RT**

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**MEC 3391RT**

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**MEC 4191RT**



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# **SECTION 2: OPERATION**

# TRANSPORT AND LIFTING INSTRUCTIONS

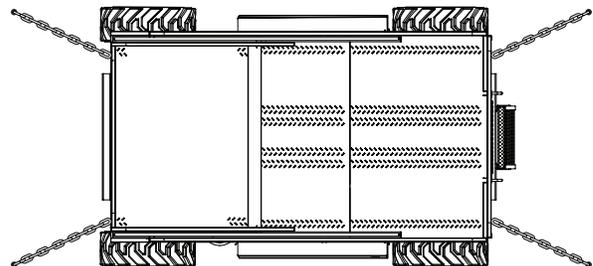
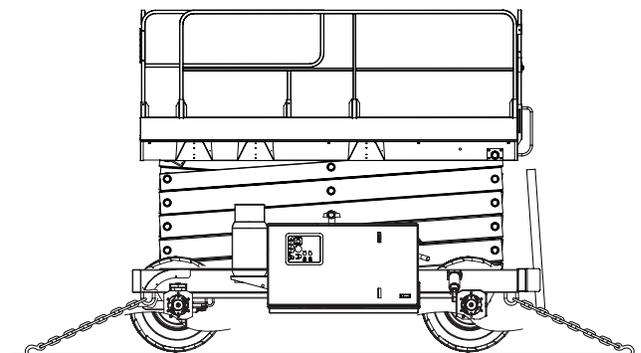
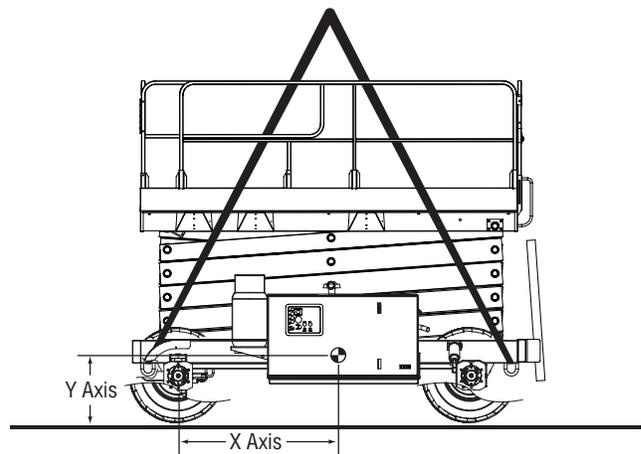


- **ONLY QUALIFIED RIGGERS SHOULD RIG AND LIFT THE MACHINE.**
- **BE SURE THE CRANE CAPACITY, LOADING SURFACES AND STRAPS OR LINES ARE SUFFICIENT TO WITHSTAND THE MACHINE WEIGHT. SEE THE SERIAL PLATE FOR THE MACHINE WEIGHT.**

## LIFTING INSTRUCTIONS

- Fully lower the platform. Be sure the extension deck, controls and cabinet 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.
- Adjust the rigging to prevent damage to the machine and to keep the machine level.

Center of Gravity	X Axis	Y Axis
2591RT	50 in. / 127 cm	36 in. / 91 cm
3391RT	50 in. / 127 cm	38 in. / 97 cm
4191RT	50 in. / 127 cm	40 in. / 102 cm



## 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.



# UNLOADING PROCEDURES



- **ALWAYS ATTACH THE MACHINE TO A WINCH WHEN LOADING OR UNLOADING FROM A TRUCK OR TRAILER IF DRIVEN OFF. WE DO NOT RECOMMEND UNASSISTED LOADING OR UNLOADING OF ANY SCISSOR LIFT.**
  - **READ AND UNDERSTAND ALL SAFETY, CONTROL, AND OPERATING INFORMATION FOUND ON MACHINE AND IN THIS MANUAL BEFORE OPERATING THE MACHINE.**
- 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, activate emergency stop switch (rotate clockwise and release). Test all platform functions.
  - Carefully drive the machine off the truck or trailer with the winch still attached.

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



- **BEFORE PLACING THE MACHINE INTO SERVICE, ALL OPERATORS MUST READ AND UNDERSTAND THE CONTENTS OF THIS OPERATOR’S MANUAL.**

# OPERATOR SAFETY

# DANGER

## YOU MUST NOT OPERATE THIS MACHINE:

UNLESS YOU HAVE BEEN AUTHORIZED TO USE AND TRAINED IN THE SAFE OPERATION OF THIS MACHINE.

TRAINING INCLUDES COMPLETE KNOWLEDGE OF THE SAFETY AND OPERATION INSTRUCTIONS CONTAINED IN THE MANUFACTURERS MANUAL, ANSI MANUAL OF RESPONSIBILITIES, YOUR EMPLOYERS WORK RULES AND APPLICABLE GOVERNMENTAL REGULATIONS.

AN UNAUTHORIZED AND UNTRAINED OPERATOR SUBJECTS THEMSELF AND OTHERS TO DEATH OR SERIOUS INJURY.



## ELECTROCUTION HAZARD THIS MACHINE IS NOT INSULATED

MAINTAIN SAFE CLEARANCE FROM ELECTRICAL LINES AND APARATUS. YOU MUST ALLOW FOR MACHINE SWAY, ROCK OR SAG AND ELECTRICAL LINES SWAYING.

THIS MACHINE DOES NOT PROVIDE PROTECTION FROM CONTACT WITH OR PROXIMITY TO AN ELECTRICALLY CHARGED CONDUCTOR.

YOU MUST MAINTAIN A CLEARANCE OF AT LEAST TEN (10) FEET BETWEEN ANY PART OF THIS MACHINE OR ITS LOAD AND ANY ELECTRICAL LINE OR APARATUS CARRYING UP TO 50,000 VOLTS. ONE FOOT OF ADDITIONAL CLEARANCE IS REQUIRED FOR EVERY ADDITIONAL 30,000 VOLTS OR LESS.

**DEATH OR SERIOUS INJURY  
WILL RESULT FROM CONTACT  
OR INADEQUATE CLEARANCE**

## TIP-OVER 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

**DEATH OR SERIOUS INJURY  
WILL RESULT FROM IMPROPER  
USE OF THIS EQUIPMENT**

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# OPERATOR SAFETY (CONTINUED)



# WARNING

INSPECT MACHINE AND MAKE SURE THAT IT IS OPERATING PROPERLY, THAT ALL NAME PLATE AND SAFETY AND CONTROL DECALS ARE IN PLACE AND LEGIBLE, AND THAT THE MACHINE IS IN ACCORDANCE WITH THE MANUFACTURER'S MAINTENANCE REQUIREMENTS CONTAINED IN THE OPERATION AND MAINTENANCE MANUAL AND THE DAILY SAFETY CHECKLIST.

OPERATE MACHINE WITH EXTREME CAUTION. WATCH FOR OBSTRUCTIONS WHICH MAY STRIKE PLATFORM, PERSONNEL, CONTROLS, OR MACHINE. OPERATE CONTROLS SLOWLY FOR SMOOTH PLATFORM MOTION.

#### FOR DRIVING ON ANY GRADE OR SIDE SLOPE:

- PLATFORM MUST BE FULLY LOWERED.
- DO NOT EXCEED MAXIMUM PLATFORM OR EXTENSION LOAD LIMIT CAPACITY. LOAD TO BE UNIFORMLY DISTRIBUTED. PLACE LOAD NEAR CENTER OF PLATFORM WHEN POSSIBLE.
- DO NOT DRIVE ON SIDE SLOPE IF OVER 25% (14°).
- DO NOT DRIVE UP OR DOWN A GRADE THAT IS GREATER THAN THE GRADEABILITY SPECIFICATIONS FOR THIS MACHINE. SEE OPERATOR MANUAL FOR SPECIFICATIONS.

#### FOR DRIVING WITH PLATFORM ELEVATED:

- DRIVE ONLY ON A SMOOTH, FIRM, AND LEVEL SURFACE FREE OF OBSTRUCTIONS.
- DO NOT EXCEED MAXIMUM PLATFORM OR EXTENSION LOAD CAPACITY.
- LOAD MUST BE UNIFORMLY DISTRIBUTED.
- USE EXTREME CAUTION.

#### OTHER HAZARDS

1. DO NOT OVERLOAD PLATFORM LOAD CAPACITY.
2. DO NOT EXCEED MAXIMUM SIDE FORCE AND MAXIMUM NUMBER OF OCCUPANTS.
3. DO NOT USE WITHOUT GUARD RAILS IN PLACE, AND ENTRY GATE PROPERLY SECURED.
4. DO NOT USE IF WORK PLATFORM IS NOT WORKING PROPERLY OR IF ANY PART IS DAMAGED OR WORN.
5. DO NOT USE NEAR MOVING VEHICLES OR CRANES.
6. DO NOT STAND OR SIT ON GUARDRAILS, ALL PERSONNEL SHALL ALWAYS MAINTAIN FIRM FOOTING ON PLATFORM FLOOR.
7. DO NOT USE WHILE UNDER THE INFLUENCE OF ALCOHOL OR DRUGS.
8. DO NOT OVERRIDE SAFETY DEVICES.
9. DO NOT LEAVE MACHINE UNATTENDED WITH KEY IN THE SWITCH.
10. DO NOT RAISE PLATFORM WHILE MACHINE IS ON A TRUCK, FORKLIFT, OR OTHER DEVICE OR VEHICLE.
11. DO NOT USE LADDER, SCAFFOLDING, OR OTHER DEVICES TO INCREASE SIZE OR WORKING HEIGHT OF PLATFORM.
12. DO NOT ENTER OR EXIT PLATFORM WHILE IN MOTION.
13. DO NOT RECHARGE BATTERIES NEAR SPARKS OR OPEN FLAME, BATTERIES EMIT HIGHLY EXPLOSIVE HYDROGEN GAS.
14. DO NOT PERFORM SERVICE ON THE MACHINE WITHOUT PROPERLY BLOCKING ELEVATING ASSEMBLY.
15. DO NOT ATTACH OVERHANGING LOADS OR INCREASE PLATFORM SIZE.

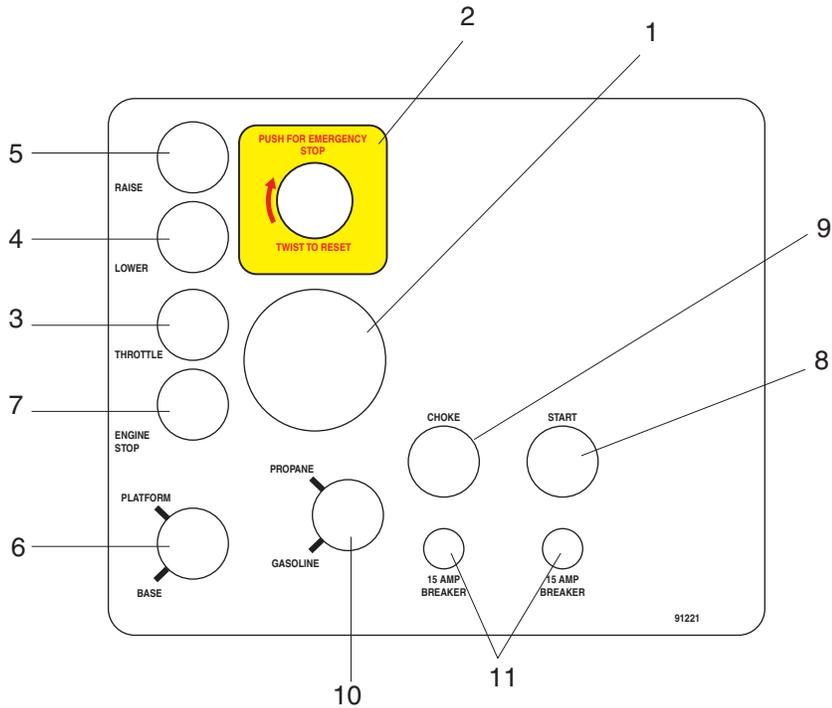
**IMPROPER OPERATION OF THIS MACHINE  
COULD CAUSE DEATH OR SERIOUS INJURY.**

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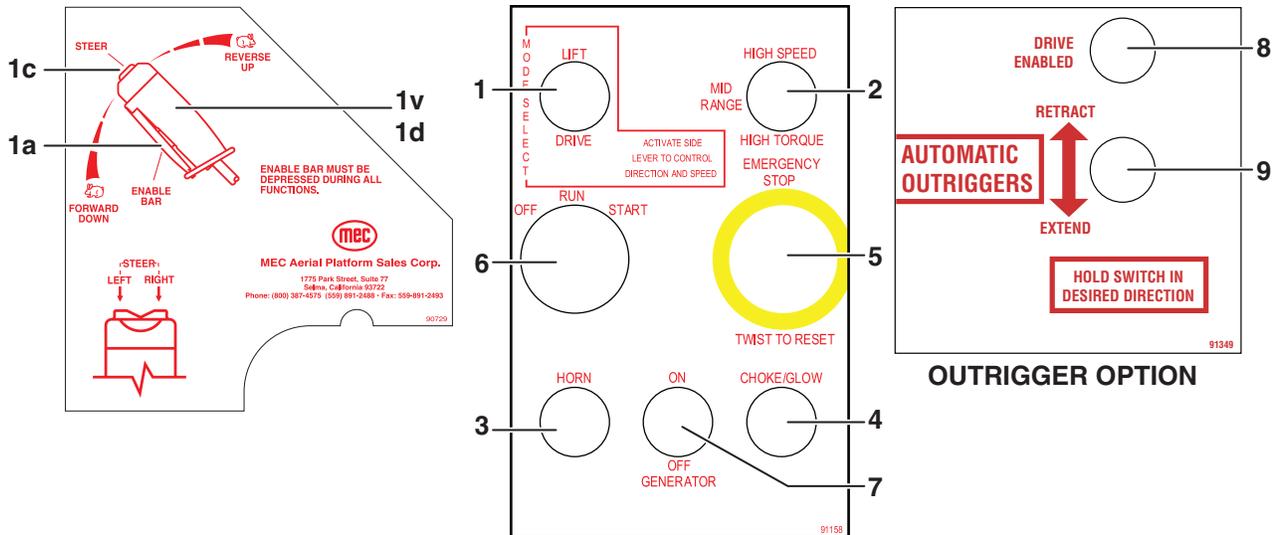
# OPERATOR CONTROLS

## BASE CONTROL PANEL



CONTROL		DESCRIPTION
1	Hour Meter	Indicates total elapsed time the engine has been operated.
2	Emergency Stop Button	Use to stop all functions in an emergency. Push for emergency stop. To reset turn clockwise.
3	Throttle Switch	Press the switch to activate high engine speed before raising platform from base controls.
4	Lower Switch	Use to control lowering of the platform from the base controls when "BASE" position is selected.
5	Raise Switch	Use to control the lift of the platform from the base panel, when "BASE" position is selected.
6	Base/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 control box.
7	Engine Stop Switch	Press the switch to shut off engine from base controls.
8	Start Switch	Press the switch to start the engine. Release switch when engine starts running.
9	Choke/Glow Plug/Preheat Switch	Use to operate the choke when starting dual fuel engine or heating glow plug for Diesel engines.
10	Gas/Propane	Move switch to "UP" for propane and "DOWN" for gasoline.
11	Circuit-breakers	Pops out when there is excessive electrical load in the 12-volt control circuit. Push in to reset (see Service and Parts Manual).

# OPERATOR CONTROLS (continued)



CONTROL		DESCRIPTION
1	Mode Selector	Desired selection will allow either the lift or drive function using controller handle.
1a	Enable Switch	Must be depressed to activate drive, steer, and lift functions.
1b	“Forward/Reverse”	Controls forward and reverse machine travel at stepped speeds.
1c	“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.
1d	“Lift/Lower” Controller	With enable switch depressed, moving controller handle towards the operator (up) will provide proportional platform lift. Moving the handle away from the operator (down) will provide platform lowering at a fixed speed.
2	Speed/Torque Switch	“HIGH TORQUE” selection will provide extra driving torque and reduce speed. “MID RANGE” selection will provide medium driving torque and speed. “HIGH SPEED” selection will provide high machine speed when platform is under approximately 3m (10 ft.).
3	Horn (Option)	Press button to sound warning horn.
4	Choke/Glow Plug/ Preheat Switch	Operate when starting dual fuel engine or heating glow plug for diesel engines.
5	Emergency Stop	Push to stop all functions in emergency. Reset by turning Button clockwise.
6	Engine Start/Off	Turn key to start the engine. Switch will return to “RUN” position for normal operation. Turn key to “OFF” position to shut engine down.
7	Generator Option Switch	Turn switch “ON” to engage optional A/C generator. Drive and Lift functions are disabled when generator is on.
8	Indicator Lamp (Option)	Lamp “ON” indicates outriggers are UP and machine will drive. Lamp “OFF” indicates outriggers are DOWN and machine will not drive.
9	“Retract/Extend” Switch	Push toggle switch “UP” to RETRACT (raise) the outriggers. Push toggle switch “DOWN” to EXTEND (lower) the outriggers.

# PRIMARY MACHINE COMPONENTS

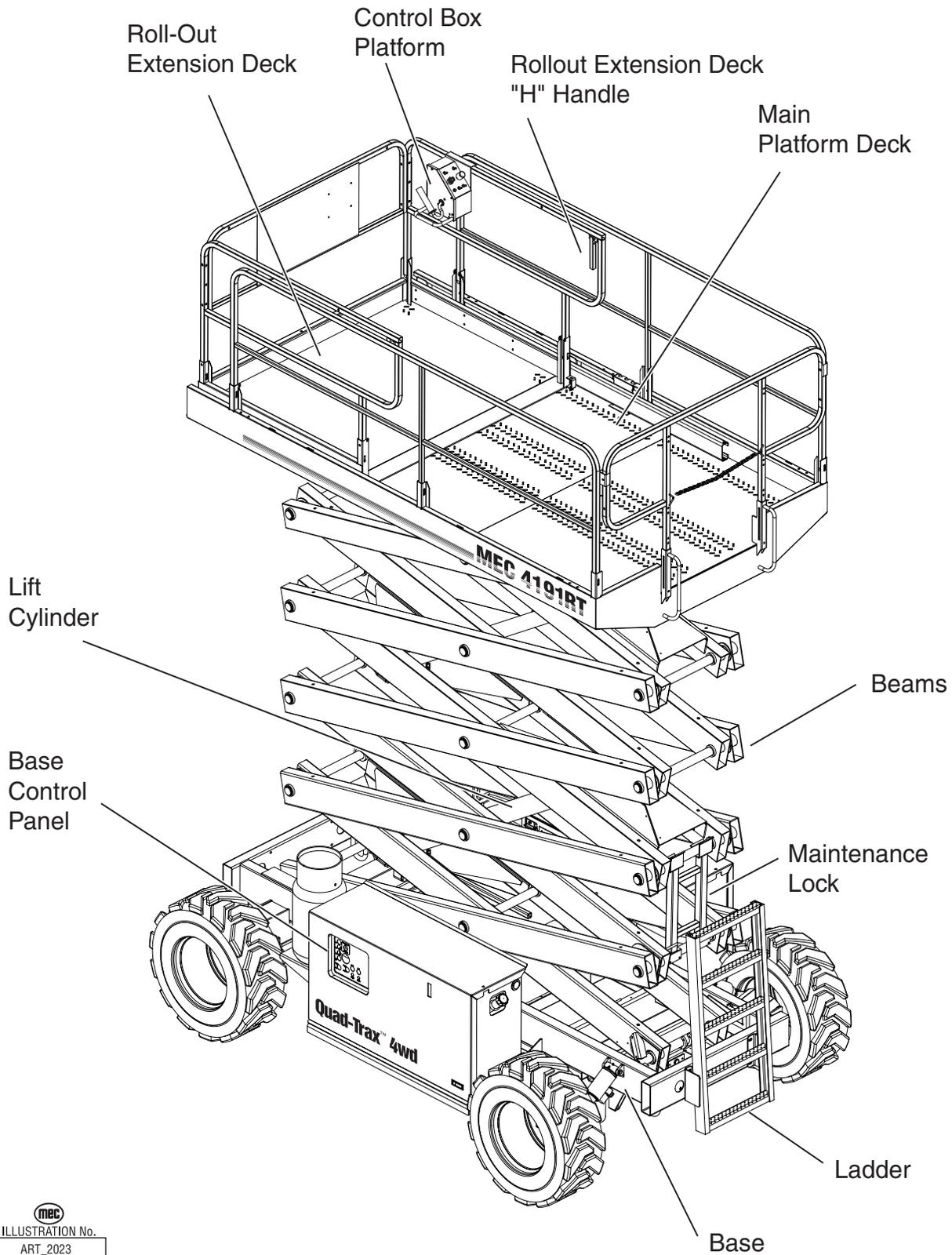


  
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# ENGINE STARTING

Before use each day or at the beginning of each shift, the machine shall be given a visual inspection and functional test. Repairs (if any) must be made prior to operating the machine as it is critical to ensure safe operation of the machine. Refer to *Section 3* for a detailed Prestart Inspection checklist.

## STARTING A DUAL FUEL ENGINE

### FROM BASE CONTROL PANEL

1. Ensure that Battery Disconnect switch, located next to base control panel, inside module, is in the “ON” position.
2. Turn Key switch on platform control box to “RUN” position.
3. Ensure that both E-Stop switches at platform and base controls are in the “ON” position.
4. Place the Base/Platform selector switch to “Base” position.
5. Place the fuel selector switch to the desired fuel selection, “Gas” or “LP”.
6. Press and hold the “Start” switch, releasing when the engine starts. Cold starts may require “Choke” switch to be pressed with “Start” switch.

### FROM PLATFORM CONTROL BOX

1. Place the Base/Platform selector switch at the base control panel to the “Platform” position.
2. Place the fuel selector switch to the desired fuel selection, “Gas” or “LP”.
3. Ensure that both E-Stop switches at platform and base controls are in the “ON” position.
4. Turn the key to the “Start” position, releasing when the engine starts. Cold starts may require “Choke” switch to be pressed with “Start” switch.

### SWITCHING FUEL

1. Fuel selection can be made while engine is running. Only minor hesitation should be encountered.



## STARTING A DIESEL ENGINE

The engine can be started (or stopped) from either the base control panel or the Platform Control Box.

1. Place the selector switch “Platform/Base” in the desired position.
2. Press and hold the “Start” switch and when the engine starts, release the start switch.
3. If engine is cold, hold the Choke/Glow switch in the “ON” position for the recommended times shown below. With switch held, press and hold “Start” switch until engine starts. Release both switches once engine starts.

Refer to the following table for some recommended preheat times for different ambient temperatures:

<b>Preheating Time</b>	<b>Ambient Temperature</b>
5 seconds (approx.)	Above 50°F (10°C)
10 seconds (approx.)	50°F (10°C) to 23°F (-5°C)
20 seconds	Below 23°F (-5°C)
20 seconds	Limit Of Continuous Use

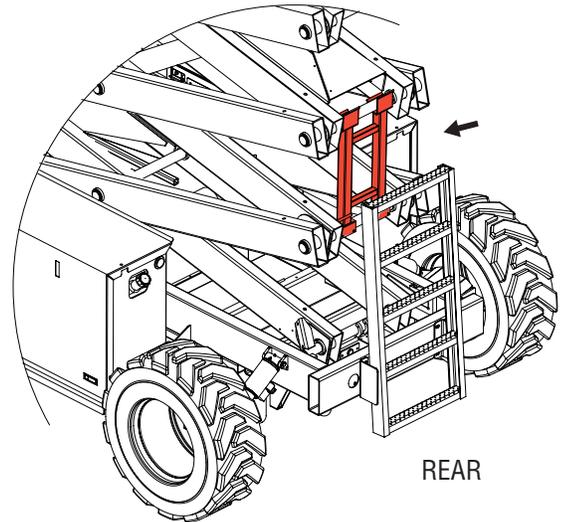
## BASE CONTROL OPERATION AND CHECKS



- **ELECTROCUTION HAZARD!!! THIS MACHINE IS NOT INSULATED!!**
- **ROTATE THE MAINTENANCE LOCK INTO POSITION BEFORE INSPECTING ANY ITEMS INSIDE OR AROUND SCISSOR ARMS.**

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.

Maintenance Lock In Position



- **BE SURE AREA ABOVE THE MACHINE IS CLEAR OF OBSTRUCTIONS TO ALLOW FULL ELEVATION OF PLATFORM.**
- **DO NOT OPERATE THE MACHINE IF THE FOLLOWING CHECKS REVEAL A DEFECT.**

- Turn selector switch to “BASE” position.
- Start engine.
- Press and hold the “Throttle” switch to increase engine speed.
- Press the Raise switch on the base control panel to elevate the platform to the end of its movement. Releasing the switch should stop elevation.
- Test the “Emergency Stop” function. While the platform is moving, press the Emergency Stop button, platform should stop.
- Reset by rotating clockwise.
- Lower the platform about halfway by pressing the Lower switch. Releasing the switch should stop the lowering.
- Check for proper operation and hydraulic leaks.
- Rotate the Maintenance Lock into position. Lower platform to the stowed position.
- Turn off engine.

## PLATFORM CONTROL OPERATION AND CHECKS

- Select the “Platform” position on the selector switch at base control station.
- Enter platform and close and secure the entry.
- From the platform, start the engine.
- Press the horn button briefly to check if working properly, if installed.

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

- Check for proper operation and hydraulic fluid leaks.
- Move mode selector switch to “Lift” position, depress Enable bar and move control handle “up” (toward the operator).
- Test emergency stop function by pressing down on the red Emergency Stop switch. Reset by rotating clockwise.
- To lower platform, depress the Enable bar and move control handle “down” (away from the operator).



- **IF PLATFORM SHOULD FAIL TO LOWER DO NOT ATTEMPT TO CLIMB DOWN THE BEAM ASSEMBLY. SERIOUS INJURY MAY RESULT.**

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

- Move mode select switch to “Drive” position. Test Left/ Right steering by depressing Enable bar on control handle and pressing the rocker switch at the top of the handle. Press left side of switch for left steer direction and right side for right steer direction.
- Move the mode select switch to “Drive” position, depress Enable bar and move control handle “forward” and “backward” to check drive direction. Releasing the Enable bar or returning control handle to center position will stop motion of drive.
- Test the “Emergency Stop” function. While driving in both directions. Reset “Emergency Stop” by rotating the switch clockwise.

# OPERATION



- **THE OPERATOR MUST BE AWARE OF THE ENVIRONMENT. DO NOT RAISE THE PLATFORM IF THE MACHINE IS NOT ON A FIRM LEVEL SURFACE.**
- **SAFE OPERATION BEGINS WITH A SAFETY CONSCIOUS EQUIPMENT OPERATOR.**

Perform prestart inspection. Remember to place the selector switch in the “Platform” position before getting in the platform for operation.

## DRIVING AND STEERING



- **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.**

**NOTE:** To activate drive function, activate mode selector switch in “Drive” position. Depressing the Enable bar, drive and steer functions can be achieved. Steer wheels will not center themselves after a turn, and must be returned to the straight-ahead position with the steer switch.

Controller handle movement “away” from the operator will give FORWARD travel and pulling the handle “towards” the operator will give REVERSE travel.

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

## BRAKING



- **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.**

**NOTE:** For parking, the brake is automatically applied when the forward/reverse drive controller is positioned in the center (neutral) position.

## ELEVATING THE PLATFORM



- **DO NOT ELEVATE PLATFORM UNLESS GUARDRAILS ARE INSTALLED AND SECURE.**

### USING PLATFORM CONTROLS

To elevate the platform, activate mode selector switch in the “Lift” position. Depressing the Enable bar and moving controller handle “towards” the operator will elevate the platform. Rate of lift is proportional and is dependent on the movement of the controller handle.

### USING BASE CONTROLS

With selector switch in the “Base” position, press and hold the Throttle switch, then press and hold the Raise switch on the base control panel until the desired height is reached or until the platform reaches maximum height.

## LOWERING THE PLATFORM

### USING PLATFORM CONTROLS

To lower the platform, activate mode selector switch to the “Lift” position. Depressing the Enable bar and moving the controller handle “away” from the operator will lower the platform. Rate of descent is fixed - platform lowers at same rate regardless of handle position.

### USING BASE CONTROLS

With selector switch in the “Base” position, press and hold the Lower switch until the desired platform height is reached or until the platform reaches the stowed position.

## EXTENDING THE ROLL-OUT EXTENSION DECK

- Lift handle at the rear of the extension deck to raise 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.



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

## LOWERING THE PLATFORM RAILINGS



- **DO NOT ELEVATE PLATFORM UNLESS GUARDRAILS ARE INSTALLED AND SECURE.**
- Place the platform control console on the platform floor.
- Remove safety snap pins holding the front extension railing to the corner post. Swing front rail back, next to side rail and secure with hitch pin.
- Remove pins from rear railing corner post. Lift rail and pivot forward and place on platform floor.
- Remove safety snap pins from extension side rails. Rotate rails down to platform floor.
- Repeat the procedure as you make your way around the platform to remove the rest of the railings.
- To return the machine to normal operation mode position/install all railings securely.
- Position platform control console.

## OPTIONAL OUTRIGGERS

The engine must be running for the outriggers to operate.

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).

### EXTEND

- Push and hold the “Extend/Retract” toggle DOWN.
- The outriggers will extend and level the machine. When the machine is level and ready to operate, the outrigger system will stop automatically.
- The Indicator Lamp will turn “OFF”, indicating that outriggers are down and machine drive function is disabled.

### RETRACT

- Push and hold the “Extend/Retract” toggle UP.
- The outriggers will retract.
- The Indicator Lamp will turn “ON”, indicating that the outriggers are up and machine drive function is enabled.

## SHUTDOWN PROCEDURE

- When finished with the machine, place the platform in the stowed position.
- Park the machine on a level surface.
- Shut off the engine by placing the Engine Start/ Off switch in the “Off” position.
- Carefully exit the platform using a constant three (3) point dismount/grip.
- Put a padlock on the battery disconnect switch to prevent unauthorized operation.

# MOVING THE MACHINE

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

## TOWING/ WINCHING THE MACHINE

Your machine is equipped with a brake release.



**PRIOR TO MANUALLY RELEASING BRAKES, INSURE WHEELS ARE CHOCKED TO PREVENT MACHINE FROM MOVING.**

### DISENGAGE BRAKES BEFORE TOWING:

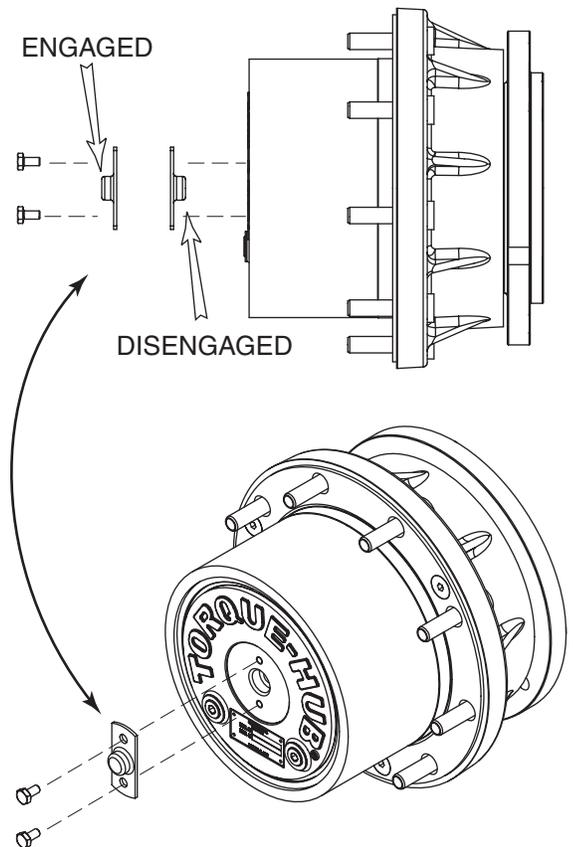
- Chock the wheels.
- Remove the Torque Engage Cap and reinstall with the bump facing *inward* on all four hubs (see illustration).
- Machine is now ready for towing.



**AFTER RELEASING THE BRAKES, THERE IS NOTHING TO STOP THE MACHINE'S TRAVEL. MACHINE WILL ROLL FREELY ON SLOPES. BE ON GUARD AGAINST RUNAWAY.**

### ENGAGE BRAKES BEFORE DRIVING:

- Remove the Torque Engage Cap and reinstall with the bump facing *outward* on all four hubs (see illustration).
- Machine is now ready for driving.



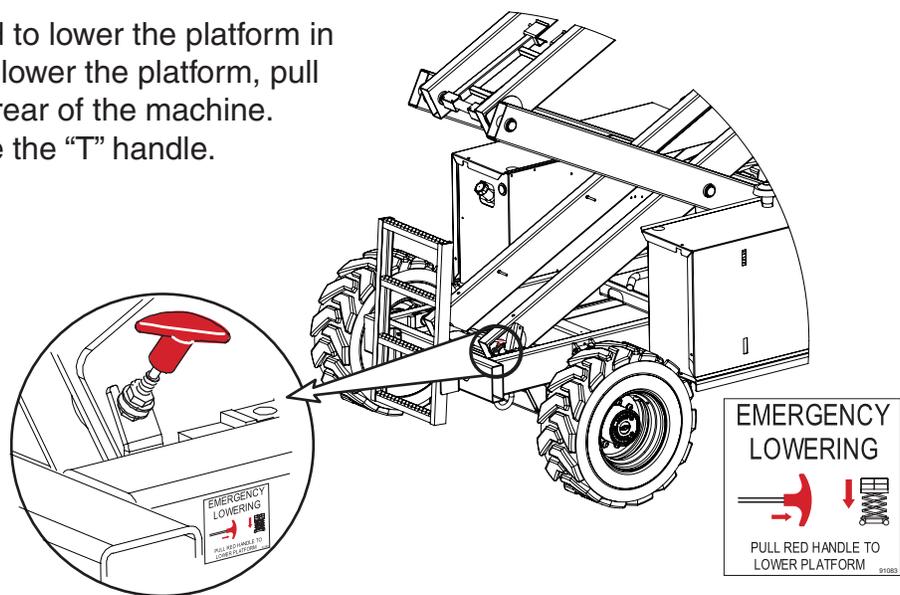
# EMERGENCY SYSTEMS AND PROCEDURES



- \* 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 (SCISSORS) ASSEMBLY.
- \* BEFORE LOWERING PLATFORM, RETRACT THE DECK EXTENSION.

## EMERGENCY LOWERING - 2591RT AND 3391RT

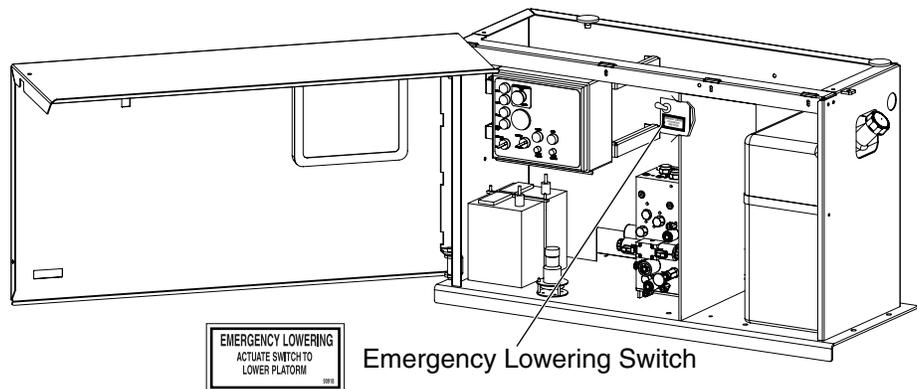
Emergency Down system is used to lower the platform in case of power or valve failure. To lower the platform, pull the red “T” handle located at the rear of the machine. Lowering stops when you release the “T” handle.



## EMERGENCY LOWERING - 4191RT

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 down on the toggle switch and hold it to lower the platform to the desired height.
2. Once the platform is fully lowered, release the toggle switch to close the valve.



A large, stylized red graphic consisting of two overlapping, curved shapes that form a circular frame around the text.

# **SECTION 3: MAINTENANCE**

# GENERAL MAINTENANCE TIPS

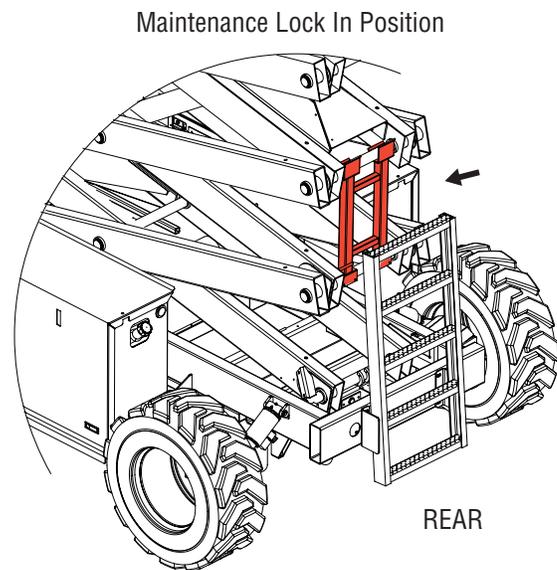
Regular inspection and conscientious maintenance is the key to efficient economical operation of your scissor lift. It will help to assure that your equipment will perform satisfactorily with a minimum of service and repair.

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.



- **NEVER PERFORM SERVICE ON THE MACHINE (WITH THE PLATFORM ELEVATED) WITHOUT FIRST BLOCKING THE BEAMS (SCISSORS) ASSEMBLY IN PLACE USING THE MAINTENANCE LOCK!**

- Block scissors 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.



## GENERAL MAINTENANCE TIPS (CONTINUED).....



- **HYDRAULIC FLUID UNDER PRESSURE CAN PENETRATE AND BURN SKIN, DAMAGE EYES, AND MAY CAUSE SERIOUS INJURY, BLINDNESS, AND EVEN DEATH. CORRECT LEAKS IMMEDIATELY.**



- **Failure to perform preventive maintenance at recommended intervals may result in the unit being operated with a defect that could result in injury or death of the operator.**
- **Immediately report to your supervisor any Defect or malfunction. Any defect shall be repaired prior to continued use of the 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.**
- **Engine coolant level must be checked only after engine has cooled. If radiator cap is removed while the coolant is at normal operating temperature, pressure within the coolant system will force hot liquid out through the filler opening and possibly cause severe scalding.**

# 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** \_\_\_\_\_

<b>INITIAL</b>	<b>DESCRIPTION</b>
----------------	--------------------

- |       |   |
|-------|---|
| _____ | 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 tire pressure (not required for foam filled tires).<br>(See Machine Specification).  |
| _____ | 5. Check the hoses and the cables for worn areas or chafing.<br>Replace if necessary.   |
| _____ | 6. Inspect the lower limit switch. Ensure that switch is in the proper position and that fasteners are secure.  |
| _____ | 7. Check the platform rails and safety gate for damage.   |
| _____ | 8. Check the pivot pins for security.   |
| _____ | 9. Check that all warning and instructional labels are legible and secure.  |
| _____ | 10. Inspect the platform control. Ensure the load capacity is clearly marked.   |

# PRESTART INSPECTION (CONTINUED).....

**INITIAL**

**DESCRIPTION**

- \_\_\_\_\_ 11. Check the hydraulic system pressure (See Machine Specification). If the pressure is low, determine the reason and repair in accordance with accepted procedures as outlined in the service manual.
- \_\_\_\_\_ 12. Check the base controls for proper operation. Check all switches and push buttons for proper operation.
- \_\_\_\_\_ 13. Check the platform controls for proper operation. Check all switches and push buttons, as well as ensuring that the drive controller returns to neutral.
- \_\_\_\_\_ 14. Follow the engine daily service requirements.  
Refer to the Engine Operator Manual

**DATE** \_\_\_\_\_ **INSPECTED BY** \_\_\_\_\_



# MONTHLY INSPECTION



**THIS CHECKLIST MUST BE USED AT MONTHLY INTERVALS OR EVERY 100 HOURS, WHICHEVER OCCURS FIRST. FAILURE TO DO SO COULD RESULT IN DEATH OR SERIOUS INJURY.**

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

**MODEL NUMBER** \_\_\_\_\_ **SERIAL NUMBER** \_\_\_\_\_

<b>INITIAL</b>	<b>DESCRIPTION</b>
----------------	--------------------

- |       |  |
|-------|--|
| _____ | 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. Check wheel lug nuts for proper torque (see “Machine Specifications”).                                    |
| _____ | 5. Check if tires are leaning in or out.   |
| _____ | 6. Inspect all arms and pivot points for signs of wear and/or damage.  |
| _____ | 7. Check the pin joints and retaining rings for security.  |
| _____ | 8. Inspect the entire machine for signs of damage, broken welds, loose bolts, improper or makeshift repairs. |
| _____ | 9. Check that the platform does not drift down with a full load.   |
| _____ | 10. Lubricate the king pins, steering cylinder pivot points, and tie rod ends (see Lubrication Chart).       |
| _____ | 11. Check all wire connections.  |
| _____ | 12. Check that all adjustable flow valves are locked, check setting if any are not locked.                   |
| _____ | 13. Check outriggers for proper operation (if equipped).   |
| _____ | 14. Follow engine monthly service requirements. Refer to the Engine Operator Manual.                         |

**DATE** \_\_\_\_\_ **INSPECTED BY** \_\_\_\_\_



# QUARTERLY INSPECTION



**THIS CHECKLIST MUST BE USED AT QUARTERLY INTERVALS OR EVERY 300 HOURS, WHICHEVER OCCURS FIRST. FAILURE TO DO SO COULD RESULT IN DEATH OR SERIOUS INJURY.**

- User/Operator is responsible for the Weekly Inspection.
- 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 Monthly Inspection.
- \_\_\_\_\_ 2. Check the operation speeds to ensure they are within specified limits (see Machine Specifications).
- \_\_\_\_\_ 3. Check the emergency lowering system.
- \_\_\_\_\_ 4. Clean and lubricate all push button switches with dry lubricant and ensure that the switches operate freely in all positions.
- \_\_\_\_\_ 5. Check the tightness of the platform frame and the linkage pins.
- \_\_\_\_\_ 6. Check the overall platform and guardrail component stability.
- \_\_\_\_\_ 7. Check the electrical mounting and hardware connections for security.
- \_\_\_\_\_ 8. Check outriggers for proper operation (if equipped).
- \_\_\_\_\_ 9. Follow engine quarterly service requirements.  
Refer to the Engine Operator Manual.
- \_\_\_\_\_ 10. Check the king pins for excessive play.

**ADDITIONAL MAINTENANCE REQUIREMENTS FOR SEVERE USAGE APPLICATIONS.**

- \_\_\_\_\_ 11. Replace hydraulic filter element (under normal usage, replace every six [6] months).
- \_\_\_\_\_ 12. Follow the engine severe usage service. Refer to the Engine Operator Manual.

**DATE** \_\_\_\_\_ **INSPECTED BY** \_\_\_\_\_



# ANNUAL INSPECTION



**THIS INSPECTION MUST BE COMPLETED NO LATER THAN 13 MONTHS FROM THE PRIOR ANNUAL INSPECTION. FAILURE TO ACCOMPLISH THIS INSPECTION COULD RESULT IN DEATH OR SERIOUS INJURY.**

- User/Operator is responsible for the Weekly Inspection.
- 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 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
<b>Decals:</b>					<b>Base:</b>					<b>Operation:</b>				
Proper Placement/Quantity					Cover Panels Secure					Wires Tight				
Legibility					Base Fasteners Tight					Switches Secure				
Correct Capacity Noted					Bolts Tight					All Functions Operational				
<b>Rails:</b>					Front Axle Mounting (4WD)					<b>Emergency Down:</b>				
All Rail Fasteners Secure					Rear Axle Mounting (4WD)					Operational				
Entry Gate/Chain Closes Properly					<b>Front Axle/Front Wheel Assemblies:</b>					<b>Slow Speed Limit Switch:</b>				
Manual/Safety Data In Box					Wheel Motors-Mounting Secure					Set Properly				
Rear Rail Pad In Place					Wheel Motors-Leaks					<b>Pothole Bars:</b>				
<b>Extending Platform:</b>					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					<b>Drive Assembly Front Hubs:</b>					<b>Pressures &amp; Hydraulics:</b>				
Rail Latches Work Properly					Castle Nut Torqued Properly					Oil Filter Secure/Chg				
Cable Secure					Cotter Pinned					Oil Level Correct/Chg				
<b>Platform:</b>					<b>Rear Axle/Rear Wheel Assemblies:</b>					Steering Pressure Set				
Platform Bolts Tight					Brakes Operational					Drive Pressure Set				
Platform Structure					Wheel Motors-Mounting Secure					Lift Pressure Set				
<b>Platform Overload System:</b>					Wheel Motors-Leaks					<b>Engine:</b>				
Functional					Lug Nuts Torqued Properly					Engine Mounts Tight				
Calibrated					Axle Pivot Libed (4WD)					Fuel Lines Secure				
<b>Wire Harnesses:</b>					Axle Lock Operational					Fuel Lines Free Of Leaks				
Mounted Correctly					<b>Component Area:</b>					Fuer 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				
<b>Scissors:</b>					D/C Mtr(s) Secure/Operational					Oil Level				
Beam Structures					Contactors Secure					Oil Filter				
Welds					Pump Secure					Air Filter				
Retaining Rings					<b>Batteries:</b>					<b>Options Operational:</b>				
Upper Cylinder Pins Secure					Secure					Hour Meter				
Lower Cylinder Pins Secure					Fully Charged					Battery Indicator				
Lower Beam Mounts tight					<b>Battery Charger:</b>					Warning Light				
Rollers Turn Freely					Secure					Warning Horn				
<b>Maintenance Locks:</b>					Operational					Generator				
Secure					<b>Emergency Stop:</b>					Converter				
Operational					Breaks All Circuits									

Comments: \_\_\_\_\_

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



# LUBRICATION DIAGRAM

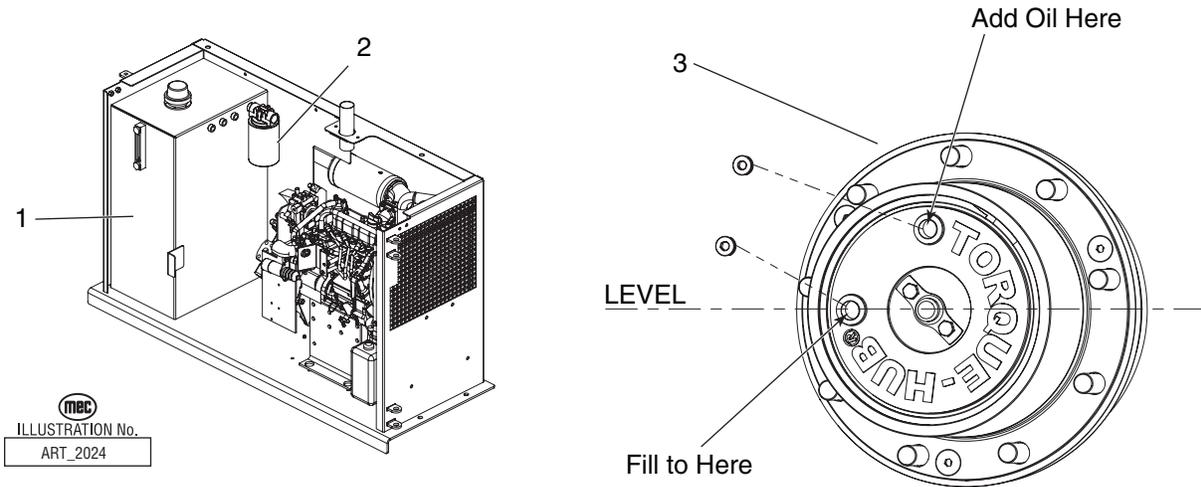


  
ILLUSTRATION No.  
ART\_2024

NO.	ITEM	SPECIFICATION	FREQUENCY OF LUBRICATION
1	Hydraulic Reservoir	Fill To The Middle Of The Sight Gauge With Platform In The Stowed Position. Mobile 424. <b>Do not substitute with lower grade oils as pump damage may result.</b>	Check Daily.  Change Yearly or Every 1,000 Hours, whichever occurs first.
2	Hydraulic Filter	Filter Element	Change Every Six Months or 500 Hours, whichever occurs first for Normal Usage. Change Every Three Months or 300 Hours, whichever occurs first for Severe Usage.
3	Hubs	SAE 90 Multipurpose Hypoid Gear Oil. API Service Classification GL5	Check Every Three Months or 250 Hours, whichever occurs first for Normal Usage Change Yearly or every 1000 Hours, whichever occurs first for Severe Usage.

# 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.**

## WHAT TO CHECK IF MACHINE WILL NOT START

- Battery cutoff switch?
- Selector switch turned to proper position (base/ platform)?
- Emergency stop buttons at both base and platform activated? (Rotate clockwise to release).
- Key switch on Platform Control Box turned to “Run” position?
- Battery fully charged?
- Are any wires pulled out or loose?
- Is there proper fuel (gas, propane, or diesel) in the fuel tank?
- If equipped for dual fuel operation, is the fuel selector switch in the proper position?
- No oil pressure?

## WHAT TO CHECK IF FUNCTIONS 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?
- Check emergency stop buttons at both base and platform?
- Hydraulic fluid level low?
- Obvious fluid leak or damaged component?
- Are any wires pulled out or loose?

**NOTES:**



**NOTES:**



**NOTES:**





## Limited Owner Warranty

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



**Aerial Platforms Sales Corp.**

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

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

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