

# RT Series

## OPERATOR'S MANUAL

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



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### Warranty



## Introduction

This Operations and Safety 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 THE OPERATOR'S MANUAL HAS BEEN READ AND UNDERSTOOD AS WELL AS HAVING OPERATED THE MEC SCISSORLIFT UNDER SUPERVISION OF AN EXPERIENCED AND QUALIFIED OPERATOR.**

**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 many years of safe, dependable service. Only trained, authorized 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:**



**Aerial Work Platforms  
Mayville Engineering Co., Inc.**

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*"RT" Series Operator's Manual*



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## Machine Specifications - 2591RT

Working Height	<b>31 ft</b>	9.45 m
Platform Height	<b>25 ft</b>	7.62 m
Stowed Height:	<b>100.75 in</b>	2.56 m
Folded Down Rails	<b>71.00 in</b>	1.80 m
Lift Capacity (Evenly Distributed):	<b>1,750 lbs</b>	795 kg
Roll-out Deck Capacity	<b>500 lbs</b>	227 kg
Platform Dimensions:		
With Roll-Out Deck	<b>72x132x44.5 in</b>	1.83x3.35x1.13 m
Guard Rail Height	<b>43.5 in</b>	1.10 m
Toe Board Height	<b>7.0 in</b>	18 cm
Roll-out Deck Length	<b>48.0 in</b>	1.22 m
Overall Length	<b>11 ft 11.5 in</b>	3.64 m
Overall Width	<b>91.0 in</b>	2.31 m
Wheel Base	<b>87.5 in</b>	2.22 m
Wheel Track	<b>77.0 in</b>	1.96 m
Turning Radius:		
Inside	<b>6 ft 1.0 in</b>	1.85 m
Outside	<b>15 ft 8.0 in</b>	4.78 m
Ground Clearance	<b>11.25 in</b>	28.58 cm
Machine Weight (Unloaded) (Approx.)	<b>7,125 lbs</b>	3,239 kg
Drive System (Proportional):		
Drive Speed (Platform Elevated)	<b>0 - 0.8 mph</b>	0 - 1.29 kph
Drive Speed (Platform Lowered)	<b>0 - 2.0 mph</b>	0 - 3.20 kph
Lift/Lower Speed (Approx.)	<b>25 - 30 sec / 38 - 43 sec</b>	
Gradeability	<b>23° / 42%</b>	
Ground Pressure/Wheel (Maximum)	<b>14.8 psi</b>	1.02 bar
Wind Speed (Maximum)	<b>28 mph</b>	45 kph - 12.5 mps
Tire Size-Standard (Super Terra Grip - Pneumatic)	<b>31 x 15.5 x 15 in</b>	78 x 39 x 38 cm
Tire Pressure (Not Applicable For Foam Filled Tires)	<b>38 psi</b>	2.62 bar
Wheel Lug Nut Torque	<b>85 ft lbs</b>	115 Nm
Hydraulic Pressure:		
Main System	<b>3,000 psi</b>	207 bar
Lift System	<b>2,000 psi</b>	138 bar
Steer	<b>1,500 psi</b>	103 bar
Hydraulic Fluid Capacity	<b>30 gal</b>	113 liters
Fuel Capacity	<b>17 gal</b>	64 liters
Power System – Voltage	<b>12 Volts DC</b>	
Alternator	<b>16 amp</b>	
Engine Availability:	Standard -Kubota DF 750-E, 23 HP (17kW), Dual Fuel, Liquid Cooled Optional - Kubota D1005-E, 20 HP (15kW), Diesel, Liquid Cooled	

## Machine Specifications - 3391RT

Working Height	<b>39 ft</b>	11.9 m
Platform Height	<b>33 ft</b>	10.1 m
Stowed Height:	<b>108 in</b>	2.7 m
Folded Down Rails	<b>78 in</b>	2.0 m
Lift Capacity (Evenly Distributed):	<b>1,250 lbs</b>	568 kg
Roll-out Deck Capacity	<b>500 lbs</b>	227 kg
Platform Dimensions:		
With Roll-Out Deck	<b>72x132x44.5 in</b>	1.83x3.35x1.13 m
Guard Rail Height	<b>43.5 in</b>	1.10 m
Toe Board Height	<b>7.0 in</b>	18 cm
Roll-out Deck Length	<b>48.0 in</b>	1.22 m
Overall Length	<b>11 ft 11.5 in</b>	3.64 m
Overall Width	<b>91.0 in</b>	2.31 m
Wheel Base	<b>87.5 in</b>	2.22 m
Wheel Track	<b>77.0 in</b>	1.96 m
Turning Radius:		
Inside	<b>6 ft 1.0 in</b>	1.85 m
Outside	<b>15 ft 8.0 in</b>	4.78 m
Ground Clearance	<b>11.25 in</b>	28.58 cm
Machine Weight (Unloaded) (Approx.)	<b>7,725 lbs</b>	3,511 kg
Drive System (Proportional):		
Drive Speed (Platform Elevated)	<b>0 - 0.8 mph</b>	0 - 1.29 kph
Drive Speed (Platform Lowered)	<b>0 - 2.0 mph</b>	0 - 3.20 kph
Lift/Lower Speed (Approx.)	<b>30 - 35 sec / 38 - 43 sec</b>	
Gradeability	<b>23° / 42%</b>	
Ground Pressure/Wheel (Maximum)	<b>15 psi</b>	1.11 bar
Wind Speed (Maximum)	<b>28 mph</b>	45 kph - 12.5 mps
Tire Size-Standard (Super Terra Grip-Pneumatic)	<b>31 x 15.5 x 15 in</b>	78 x 39 x 38 cm
Tire Pressure (Not Applicable For Foam Filled Tires)	<b>38 psi</b>	2.62 bar
Wheel Lug Nut Torque	<b>85 ft lbs</b>	115 Nm
Hydraulic Pressure:		
Main System	<b>3,000 psi</b>	207 bar
Lift System	<b>2,250 psi</b>	155 bar
Steer	<b>1,500 psi</b>	103 bar
Hydraulic Fluid Capacity	<b>30 gal</b>	113 liters
Fuel Capacity	<b>17 gal</b>	64 liters
Power System – Voltage	<b>12 Volts DC</b>	
Alternator	<b>16 amp</b>	
Engine Availability:	Standard -Kubota DF 750-E, 23 HP (17kW), Dual Fuel, Liquid Cooled Optional - Kubota D1005-E, 20 HP (15kW), Diesel, Liquid Cooled	

## Machine Specifications - 4191RT

Working Height	<b>47 ft</b>	14.30 m
Platform Height	<b>41 ft</b>	12.50 m
Stowed Height:	<b>117.0 in</b>	2.97 m
Folded Down Rails	<b>87.5 in</b>	2.22 m
Lift Capacity (Evenly Distributed):	<b>1,000 lbs</b>	455 kg
Roll-out Deck Capacity	<b>400 lbs</b>	182 kg
Platform Dimensions:		
With Roll-Out Deck	<b>72x132x44.5 in</b>	1.83x3.35x1.13 m
Guard Rail Height	<b>43.5 in</b>	1.10 m
Toe Board Height	<b>7.0 in</b>	18 cm
Roll-out Deck Length	<b>48.0 in</b>	1.22 m
Overall Length	<b>11 ft 11.5 in</b>	3.64 m
Overall Width	<b>91.0 in</b>	2.31 m
Wheel Base	<b>87.5 in</b>	2.22 m
Wheel Track	<b>77.0 in</b>	1.96 m
Turning Radius:		
Inside	<b>6 ft 1.0 in</b>	1.85 m
Outside	<b>15 ft 8.0 in</b>	4.78 m
Ground Clearance	<b>11.25 in</b>	28.58 cm
Machine Weight (Unloaded) (Approx.)	<b>9,605 lbs</b>	4,366 kg
Drive System (Proportional):		
Drive Speed (Platform Elevated)	<b>0 - 0.8 mph</b>	0 - 1.29 kph
Drive Speed (Platform Lowered)	<b>0 - 2.5 mph</b>	0 - 4.02 kph
Lift/Lower Speed (Approx.)	<b>35 - 40 sec / 48 - 52 sec</b>	
Gradeability	<b>21.8° / 40%</b>	
Ground Pressure/Wheel (Maximum)	<b>17.7 psi</b>	1.26 bar
Wind Speed (Maximum)	<b>28 mph</b>	45 kph - 12.5 mps
Tire Size-Standard (Super Terra Grip) Calcium Filled	<b>31 x 15.5 x 15 in</b>	79 x 39 x 38 cm
Tire Pressure (Not Applicable For Foam Filled Tires)		
Wheel Lug Nut Torque	<b>85 ft lbs</b>	115 Nm
Hydraulic Pressure:		
Main System	<b>3,000 psi</b>	207 bar
Lift System	<b>2,250 psi</b>	155 bar
Steer	<b>1,500 psi</b>	103 bar
Hydraulic Fluid Capacity	<b>30 gal</b>	113 liters
Fuel Capacity	<b>17 gal</b>	64 liters
Power System – Voltage	<b>12 Volts DC</b>	
Alternator	<b>37 amp</b>	
Engine Availability:		
Standard-Ford VSG-413P(1.3 L), 32 HP(24kW), Dual Fuel, Liquid Cooled		
Optional- Kubota D1305B-1, 30 HP (22kW), Diesel, Liquid Cooled		





# **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.

NOTE: The best method to protect yourself and others from injury or death is to use common sense. If you are unsure of any operation, don't start until you are satisfied that it is safe to proceed and have discussed the situation with your supervisor.

## 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. A copy of the ANSI Standard is considered a part of this machine and can be found in the manual compartment, located at the platform control station.



- ◆ **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 (30.5cm) 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.

- ◆ Read and understand all safety and control information found on the machine and in this manual before operating the machine.
- ◆ Only trained, competent personnel should operate the scissorlift.
- ◆ NEVER fasten safety belt to an adjacent structure while on the platform.
- ◆ Make sure that entry chain/gate (if so equipped to platform) is secured before operating machine from the platform.
- ◆ Exceeding the platform rated capacity in any configuration is prohibited. Review the section titled "Machine Specifications" (earlier in this manual) regarding model capacities and dimensions.

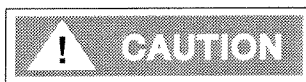
- ◆ Evenly distribute loads placed on the platform.
- ◆ SECURE all tools and other loose items to prevent injury to persons working on or below the platform.
- ◆ Use of scaffolding, ladders or similar items to extend your reach while on the platform is prohibited.
- ◆ Climbing down the beams assembly (armset), if the machine fails, while the platform is raised is prohibited.
- ◆ Precautions should be taken to prevent unauthorized personnel from operating the platform with the ground controls while the platform is in use.



- ◆ 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).
- ◆ DO NOT attempt to open any hydraulic line or component without first relieving all system pressure.
- ◆ Altering, modifying, or disabling any safety devices or interlocks is prohibited.
- ◆ Recharging the battery near sparks or open flames is prohibited. Lead-acid batteries generate EXPLOSIVE HYDROGEN GAS. Always wear safety glasses.
- ◆ Use of the machine outdoors during electrical storms or in high wind situations is not recommended.
- ◆ Raise the platform when the machine is on a firm, level surface only.



- ◆ Unassisted loading or unloading of scissorlift from a truck or trailer is not recommended.
- ◆ Before disengaging or disconnecting hydraulic motors with brake assembly from a towing vehicle, ensure that the machine cannot roll.
- ◆ Complete the "Operational Checklist" at designated intervals.



- ◆ Use of scissorlift as a crane to lift oversized or hanging loads is prohibited.
- ◆ Raising, lowering or driving the scissorlift into stationary objects is prohibited.
- ◆ It is recommended to avoid sudden braking or steering. Go slowly and leave more maneuvering room during cold weather operation.

## Fall Protection Notice

The **Guardrail** System around the perimeter of the platform is the **fall protection system** for self-propelled elevating work platforms per the American National Standards Institute ANSI/SIA A92.6 Standard. It is **prohibited** to use an Aerial Work Platform manufactured by Mayville Engineering Company, Inc. with any portion, or all, of the guardrails **removed**.

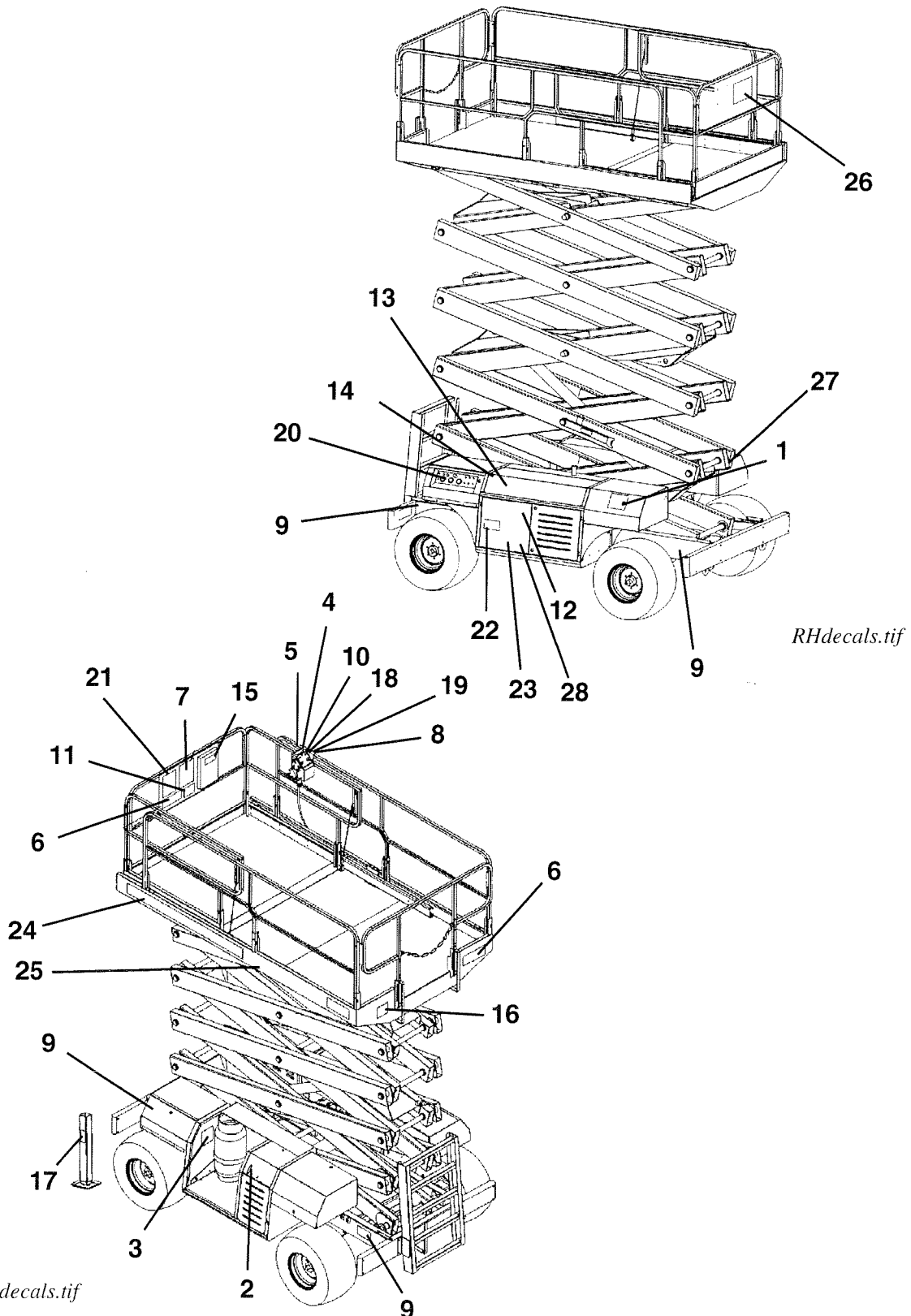
Lanyard anchorage points on this type of equipment are not required to conform to the applicable ANSI/SIA Standard.

However, if anchorage points for lanyard attachments are required by site authorities or other regulations, the anchorage points on all equipment manufactured by Mayville Engineering Company, Inc. are recommended to be used for **work positioning restraints** of personnel only. Lanyard lengths are to be determined by operator/owner to restrict the operator to the confines within the **Guardrail** System.



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

# Safety And Control Decal Locations

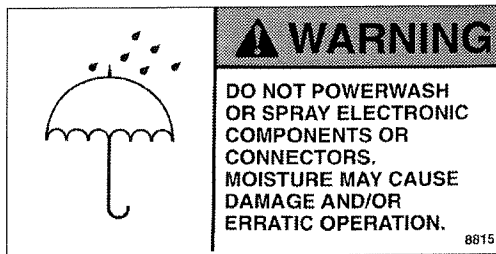


## Safety And Control Decal Locations

Item #	Part #	Description	Qty
1	6872	Gasoline Only	1
	9378	Diesel	1
2	6873	Hydraulic Oil	1
3	6912	Fuel Changeover Instructions	1
4	7155	Locate Control Box	1
5	7156	Direction - "Front"	1
6	7669	Platform Capacity (2591RT)	2
	7522	Platform Capacity (3391RT)	2
	8822	Platform Capacity (4191RT)	2
7	7523	Danger-Elec/Tip. Hazards	1
8	9479	Control Box - I.D.	1
9	8502	Inflate To Tire Mfg. Spec.	4
10	8635	Directions - Joystick	1
11	8767	Lock Warning	1
12	8815	Electrical Moisture Warning	1
13	9481	Interior Wire Harness	1
14	9529	Interior Wire Harness	1
15	8911	Manual Compartment	1
16	9458	Made In USA	1
17	9465	Danger - Keep Clear <i>(With Outrigger Option)</i>	4
18	9468	Control Box - Dual Fuel	1
	9541	Control Box - Diesel	1
19	9470	Control Box With Outriggers	1
20	9475	Ground Control Panel	1
	9538	Ground Control Panel - Diesel	1
21	7527	Warning	1
22	9492	Emergency Down and Brake Release	1
23	9543	Emergency Down	1
24	9373	2591 RT	2
	9372	3391 RT	2
	9371	4191 RT	2
25	8402	Stripe	AR
26	8811	MEC Aerial Work Platform	1
27	6794	Maintenance Lock	1
28	8867	Warning	1
29	9918	Calcium Filled Tires (4191RT)	2

## Safety Related Decals

8815



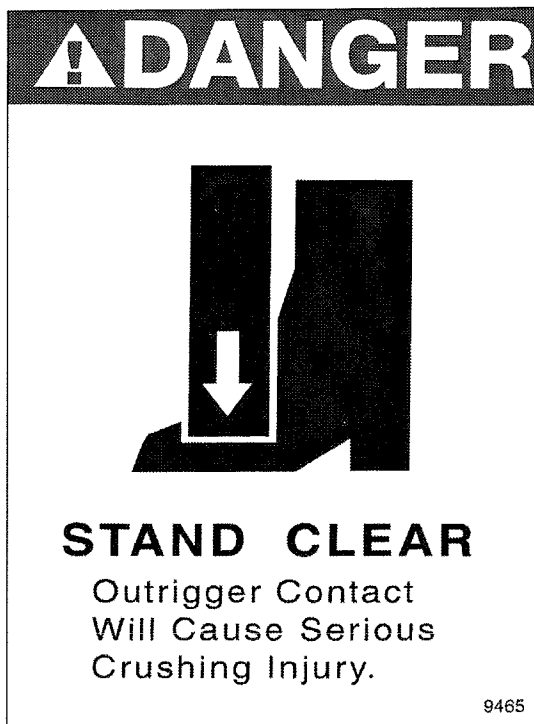
7669 2591RT

MAXIMUM PLATFORM CAPACITY – EVENLY DISTRIBUTED	
EXTENSION RETRACTED	EXTENSION EXTENDED
<p>1750 LBS 794 kg</p> <p>5-PERSONS</p>	<p>1250 LBS 567 kg</p> <p>500 LBS 227 kg</p> <p>3-PERSONS</p> <p>2-PERSONS</p>

7522 3391RT

MAXIMUM PLATFORM CAPACITY – EVENLY DISTRIBUTED	
EXTENSION RETRACTED	EXTENSION EXTENDED
<p>1250 LBS 567 kg</p> <p>4-PERSONS</p>	<p>750 LBS 340 kg</p> <p>500 LBS 227 kg</p> <p>2-PERSONS</p> <p>2-PERSONS</p>

9465

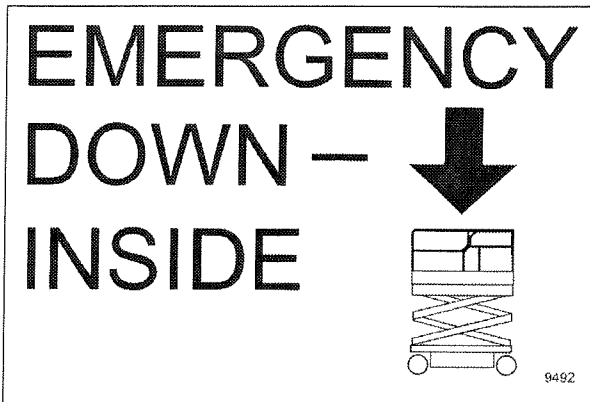


8822 4191RT

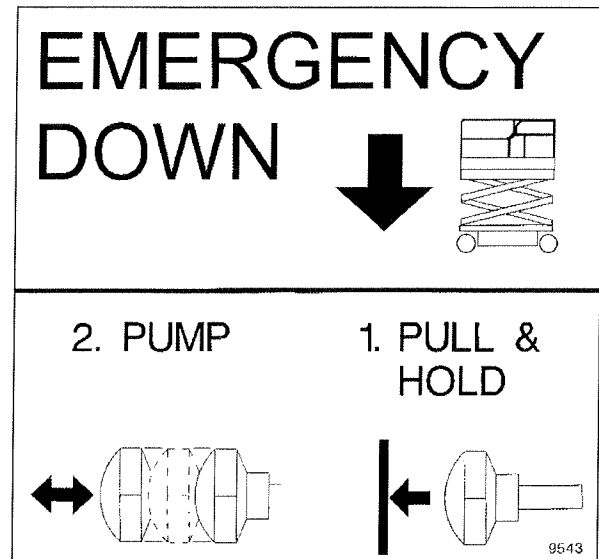
MAXIMUM PLATFORM CAPACITY – EVENLY DISTRIBUTED	
EXTENSION RETRACTED	EXTENSION EXTENDED
<p>1000 LBS 454 kg</p> <p>3-PERSONS</p>	<p>600 LBS 272 kg</p> <p>400 LBS 182 kg</p> <p>2-PERSONS</p> <p>1-PERSON</p>

## Safety Related Decals (Continued).....

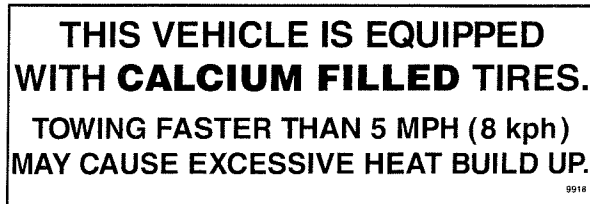
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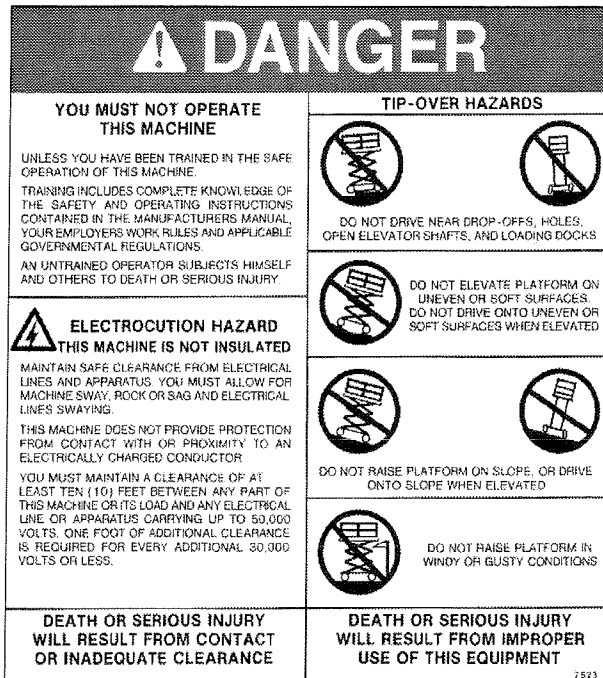
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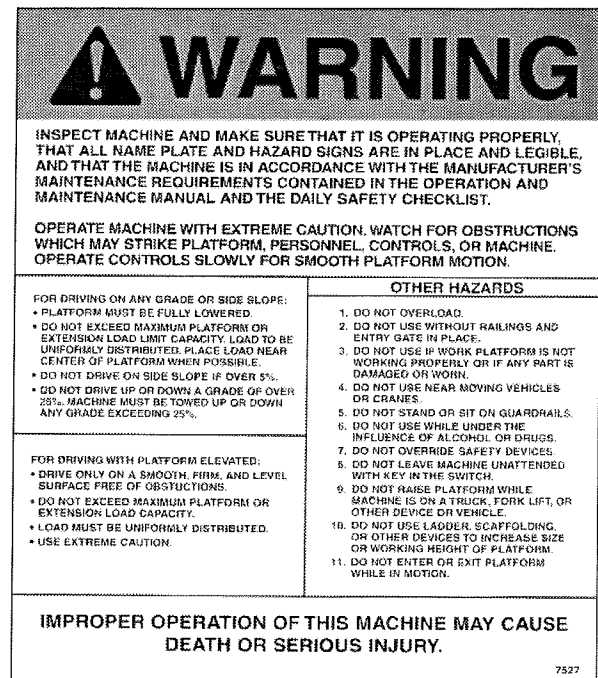
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## **SECTION 2: OPERATION**

# Unloading Procedures

- ◆ Inspect the outside of the machine for damage. Inspect all hoses, beam assemblies (armset), and cables for chafing or road damage. Confirm that all wheel lug nuts are tight (refer to the "Machine Specifications").
- ◆ Unlock and open side compartments. Inspect all fuel, electrical, and hydraulic connections for damage and security.
- ◆ Turn battery switch to ON position. Check electrolyte level.
- ◆ Check engine oil level and add as required per engine manufacturer's recommendations.
- ◆ Check that fluid level is to the fill mark on the hydraulic tank and add fluid as required (see "Lubrication Chart").
- ◆ Close side compartments.



**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 SCISSORLIFT.**

**READ AND UNDERSTAND ALL SAFETY, CONTROL, AND OPERATING INFORMATION FOUND ON MACHINE AND IN THIS MANUAL BEFORE OPERATING THE MACHINE.**

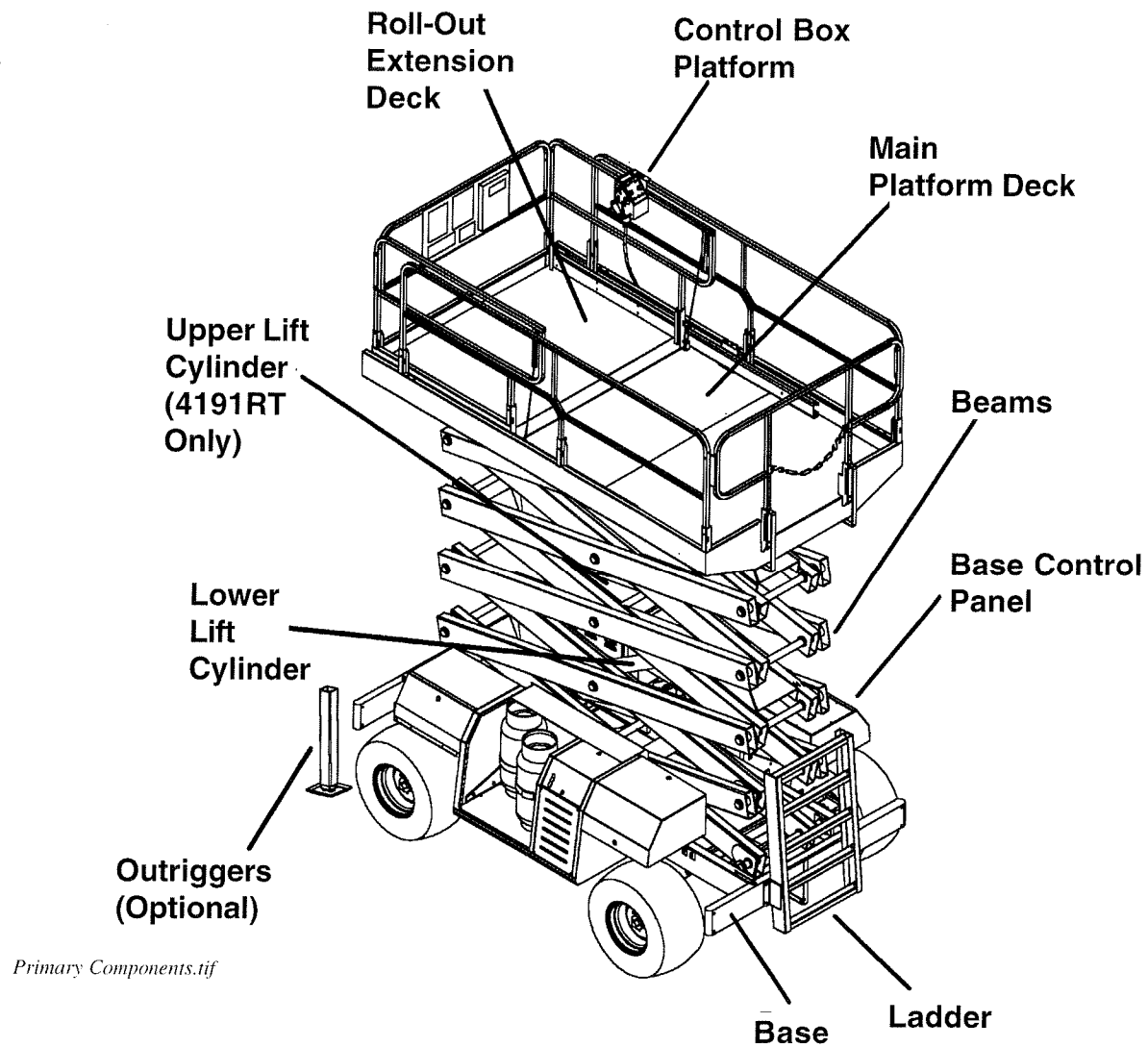
- ◆ Attach the machine to a winch for the unloading.
- ◆ Perform Machine Start-up procedures in this section. Refer to Operator Controls Descriptions, as necessary. Turn off engine.
- ◆ Remove all machine tie downs. Remove wheel chocks, if used. Turn the Base/Platform selector switch to the "PLATFORM" position.
- ◆ Enter the platform, and start the engine using the platform controls. 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.

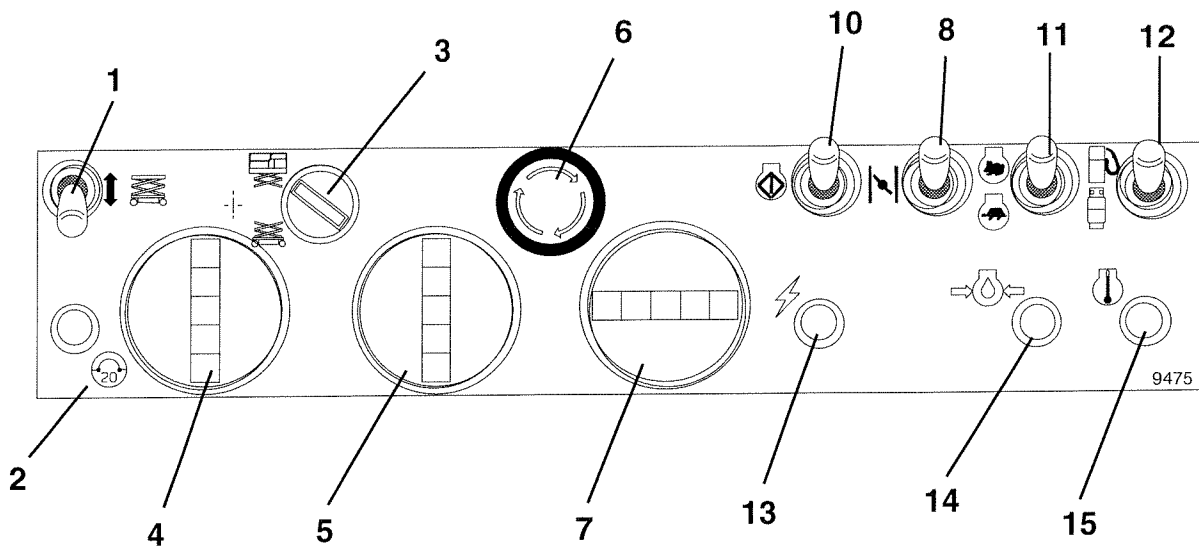
- ◆ **Before placing the machine into service, all operators must read and understand the contents of this Operator's Manual.**



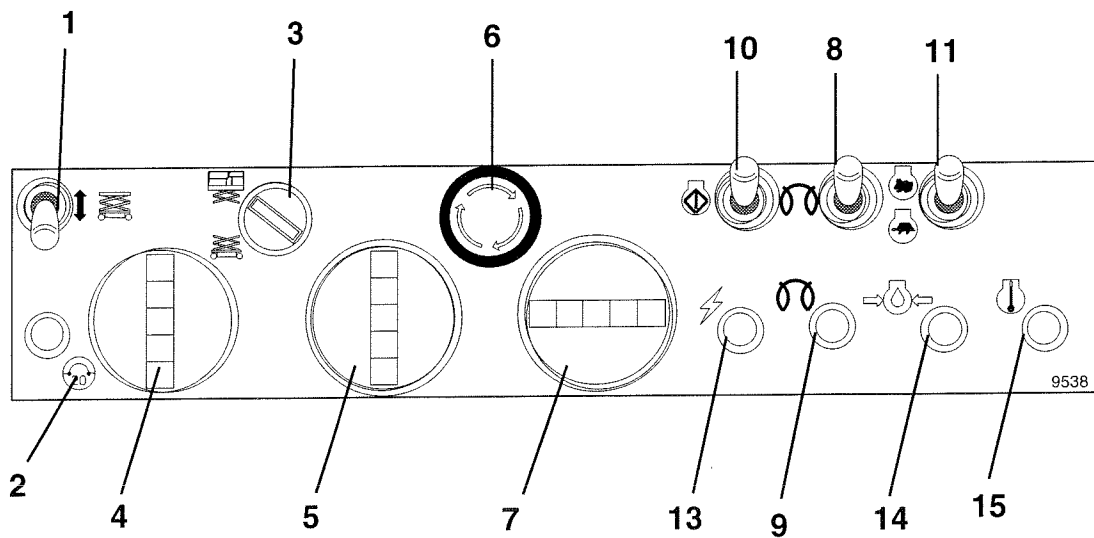
# Primary Machine Components



# Operator Controls



## Base Control Dual Fuel



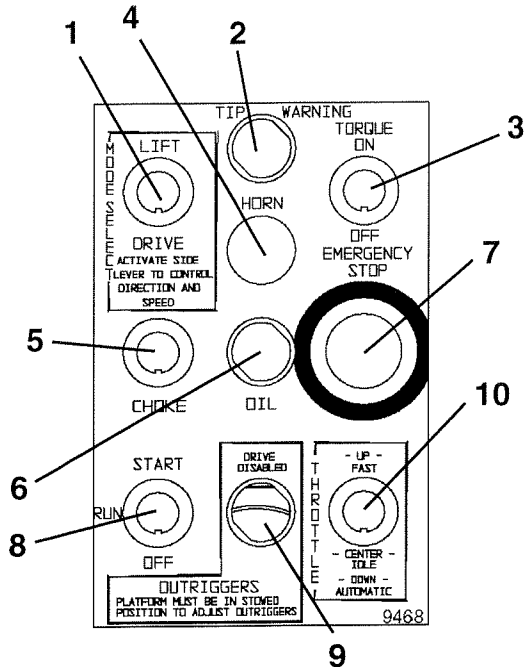
## Base Control Diesel

## Operator Controls (Continued)

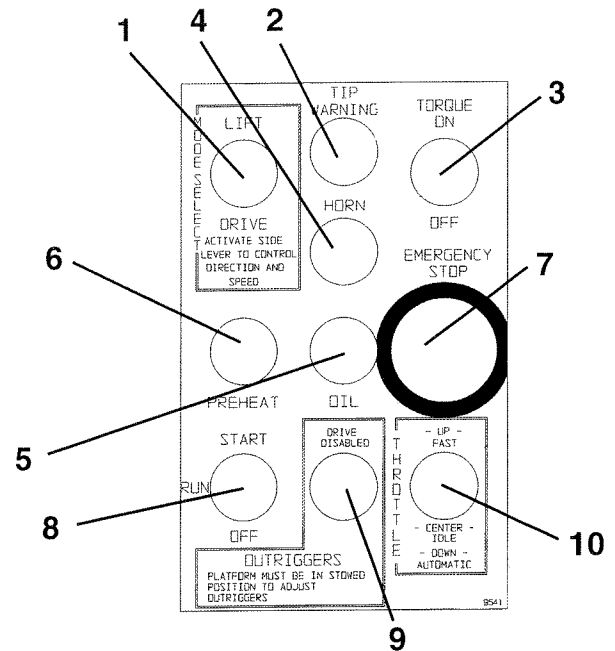
### BASE CONTROLS

	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	Circuit-breaker	Pops out when there is excessive electrical load in the 12-volt control circuit. Push in to reset.
3	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. <b>NOTE:</b> A key shall be provided for European machines and will be removable in "PLATFORM" position only.
4	Engine Temperature Gauge (Optional)	Indicates engine temperature.
5	Engine Oil Pressure Gauge (Optional)	Indicates engine oil pressure.
6	Emergency Stop Button	Use to stop all functions in an emergency. Push for emergency stop. To reset turn clockwise.
7	Hour Meter (Optional)	Indicates total elapsed time the engine has been operated.
8	Choke/Glow Plug/Preheat Switch	Use to operate the choke when starting dual fuel engine or heating glow plug for some Diesel engines. (Automatic choke on Ford engine.)
9	Pre-Heat Indicator Light	Indicates that the diesel engine preheat switch is 'on' and engine is NOT ready for starting.
10	Start Switch	Move the switch to the up/start position to start the engine. Release switch when engine starts running.
11	Idle/Run Selector	Use to select/control engine speed. Switch should be in "IDLE" position to start engine and "RUN" to operate a function requiring high engine speed.
12	Gas/Propane	Flip toggle UP for gasoline fuel; and DOWN for propane fuel.
13	Alternator Light	Indicates that the battery charging is inadequate.
14	Engine Oil Pressure Light	Indicates that the engine oil has dropped to an unsafe level.
15	Engine Temperature Light	Indicates that the engine coolant temperature has reached 230°F/110°C.
16	Digital Display (Error Code)	Viewed through access window to correlate the error code number with the attached decal explaining the error in the electrical circuit. (Not Shown)
17	Emergency Lowering	Manually pull valve plunger on the right of the block, while holding manually pump the left plunger until platform begins to lower. Releasing the right plunger will stop descent. (Located inside of engine compartment.)
18	Emergency Brake Release	Push in bypass valve, manually pump emergency down (Not Shown) (Located inside of valve compartment)

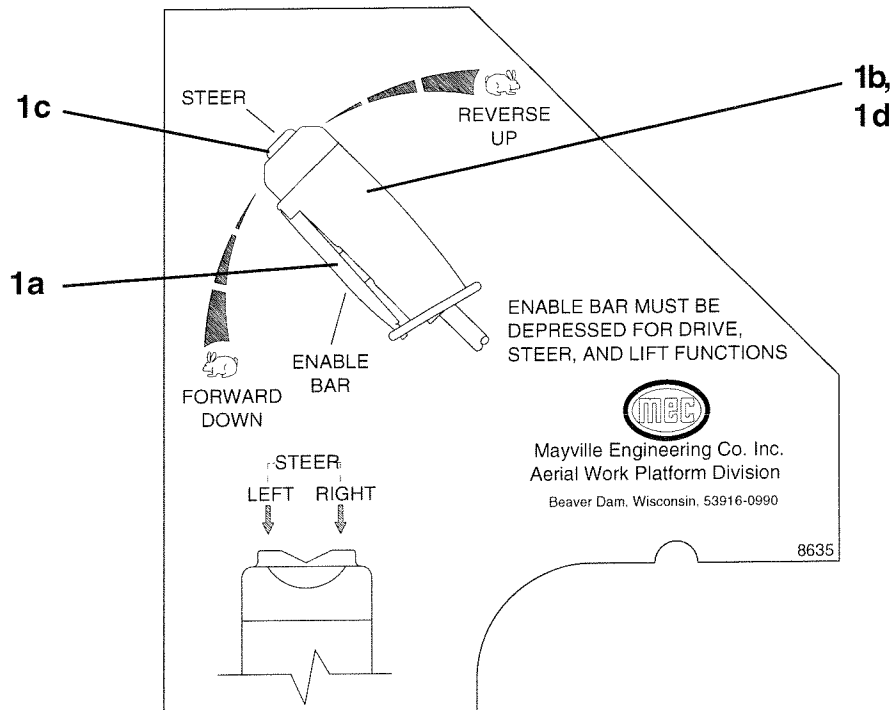
## Operator Controls (Continued)



Platform Control Dual Fuel



Platform Control Diesel



## Operator Controls (Continued)

### PLATFORM CONTROLS

CONTROL		DESCRIPTION
<b>1</b>	Mode Selector	Desired selection will allow either the lift or drive function using controller handle. Switch will self center and circuit will remain active for 15 seconds after controller is returned to the neutral position.
<b>1a</b>	Enable Switch	Must be depressed to active drive, steer, and lift functions.
<b>1b</b>	"Forward/Reverse"	Controls forward and reverse machine travel at speed proportional to handle movement.
<b>1c</b>	"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.
<b>1d</b>	"Lift/Lower" Controller	With enable switch depressed, 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.
<b>2</b>	Tilt Warning Light	Indicates that machine is not level.
<b>3</b>	Torque On/Off Switch	"ON" selection will provide extra driving torque and reduce drive speed when the platform is under approximately 10 ft (3.05 m). "OFF" position is the normal mode.
<b>4</b>	Horn	Press button to sound warning horn.
<b>5</b>	Choke/Glow Plug/ Preheat Switch	Operate when starting dual fuel engine or heating glow plug for diesel engines. (Automatic choke on Ford engine.)
<b>6</b>	Engine Oil Pressure Light	Indicates engine oil pressure has dropped to unsafe level.
<b>7</b>	Emergency Stop Button	Push to stop all functions in emergency. Reset by turning clockwise.
<b>8</b>	Engine Start/Off Switch	Push up to start the engine. Switch will return to "RUN" position for normal operation. Push the switch to "OFF" position to shut engine down.
<b>9</b>	Drive Disabled Light (if so equipped)	Indicates the outriggers are deployed and machine cannot be driven.
<b>10</b>	Throttle "Fast/Idle/Automatic"	In "FAST" position engine maintains maximum RPM. In "IDLE" position engine maintains minimum RPM. In "AUTOMATIC" position engine responds to maximum RPM whenever the enable switch is activated and reduces RPM automatically within 5 seconds of release of enable switch.
<b>11</b>	Outriggers Enable Button (Not shown)	Must be depressed to activate outriggers.
<b>12</b>	Outriggers "Up/Down" (Not shown)	Press and hold switch in "DOWN" position to lower/extend outrigger. (4 Switches) Press and hold switch in "UP" position to raise/retract the outrigger.



# Prestart Inspection

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.

- ◆ Visually inspect all machine components; for loose or missing parts, hydraulic fluid leaks, loose or damaged wires. Check for structural or weld cracks.
- ◆ Check engine oil, fuel and fluid levels with the platform fully lowered.
- ◆ Check the wheel lug nuts for tightness (Refer to “Machine Specifications”).
- ◆ Check that all warning and instructional labels are legible and secure.
- ◆ Check the platform guard rail system. Look at the chain or gate and make sure they latch properly and/ or close.
- ◆ Ensure that emergency stop buttons on the base control panel and the platform controls are disengaged. Reset by turning clockwise.
- ◆ Inside the engine compartment, ensure that the battery cutoff switch is in the “ON” position.



# STARTING DUAL FUEL ENGINE

## From Base Control Station

1. Place the selector switch to "Base" position.
2. Place the fuel selector switch to the desired fuel selection, "Gas" or "LP".
3. Ensure speed selector switch is in the "Idle" position.
4. Check "Error Code" for "OK" signal. This means "Control Board" is ready.
5. Press and hold the "Start" switch, releasing when the engine starts. Cold starts may require "Choke" switch to be pressed with "Start" switch.

**NOTE:** After 10 seconds of cranking engine, the anti restart feature activates. Turn switch to "OFF" position to reset.

## From Platform Control Station

1. Place the selector switch at the base control station to the "Platform" position.
2. Place the fuel selector switch to the desired fuel selection, "Gas" or "LP".
3. Ensure speed selector switch is in the "Automatic" position.
4. Check to see if Emergency Stop is deactivated.
5. Wait until all flashing lights stop.
6. Press and hold the "Start" switch, releasing when the engine starts. Cold starts may require "Choke" switch to be pressed with "Start" switch.

**NOTE:** After 10 seconds of cranking engine, the anti restart feature activates. Turn switch to "OFF" position to reset.

## Switching Fuels

1. When the engine begins to "hesitate" immediately place the selector switch in the new desired (Gas/Propane) position.
2. It is important that the old fuel, in the fuel system, be consumed by the engine before introducing the "new" fuel.

## Starting a Diesel Engine

The engine can be started (or stopped) from either the base control panel or the platform console.

1. Place the selector switch "Platform/Off/Base" in the desired position.
2. Ensure engine speed selector switch is in the "Idle" position.
3. Press and hold the "Start" switch and when the engine starts, release the start switch.
4. If engine is cold, hold the preheat switch in the "Up" position until preheat indicator lamp goes out. With preheat 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:

Preheating Time	Ambient Temperature
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



**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.
- ◆ 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 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 switching the Lift/ Lower switch. Releasing the switch should stop the lowering.
- ◆ Check for proper operation and hydraulic leaks.
- ◆ 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.
- ♦ From the platform, start the engine.
- ♦ Press the horn button briefly.

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

- ♦ On units equipped with the optional outriggers, push the appropriate outrigger switch down to lower. Outrigger Enable button must also be pressed.
- ♦ Check for proper operation and hydraulic fluid leaks.

**IMPORTANT: Machine will not drive with outriggers partially or fully extended.**

- ♦ 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.**

- ♦ 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.
- ♦ 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.

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

# 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, momentarily activate mode selector switch in "Drive" position. Release switch to return to the neutral (center) 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**

### **Using Platform Controls**

To elevate the platform, momentarily activate mode selector switch in the "Lift" position. Release switch to return to the neutral (center) 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 Lift/ Lower toggle switch on the base control panel in the "Up" position until the desired height is reached or until the platform reaches maximum height.

## **LOWERING THE PLATFORM**

### **Using Platform Controls**

To lower the platform, momentarily activate mode selector switch to the "Lift" position. Release switch to return to the neutral (center) 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 Lift/ Lower toggle switch in the "Down" position 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 both handles 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 8 inches (20.3 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

- ◆ Place the platform control console on the platform floor.
- ◆ Remove safety snap pins holding the front extension railing to the corner post. Place the front rail on the platform floor.
- ◆ 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.

## 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.
- ◆ Place selector switch at base control panel in the "Off" position.

NOTE: Leaving the selector switch in the base or platform position for an extended time will drain the battery. Always put the selector switch in "Off" position when leaving the machine at the end of the work day.

- ◆ Put a padlock on the battery disconnect switch (located inside the engine compartment) to prevent unauthorized operation.

## MOVING THE MACHINE

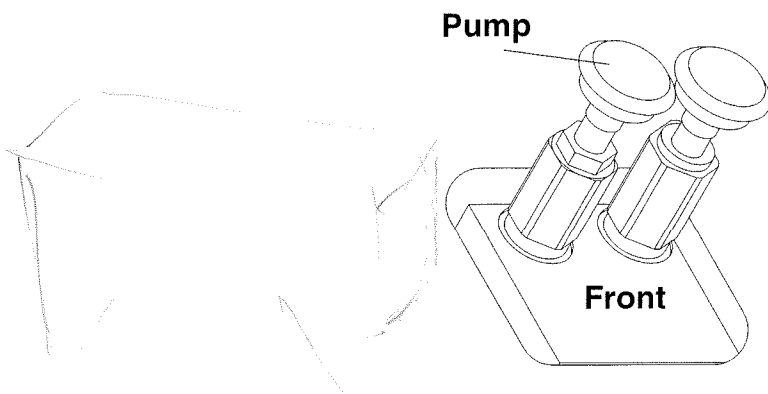
Machine can be winched or moved short distances in case of power failure at speeds not to exceed 5 MPH (8.05 kph).

### Towing/Winching the Machine

Your machine is equipped with a brake release.

Release Brakes Before Towing:

- ◆ Push down the free wheeling valve located on the main manifold.
- ◆ Using the hand pump of the emergency down system (engine compartment) pump valve until pressure is built.

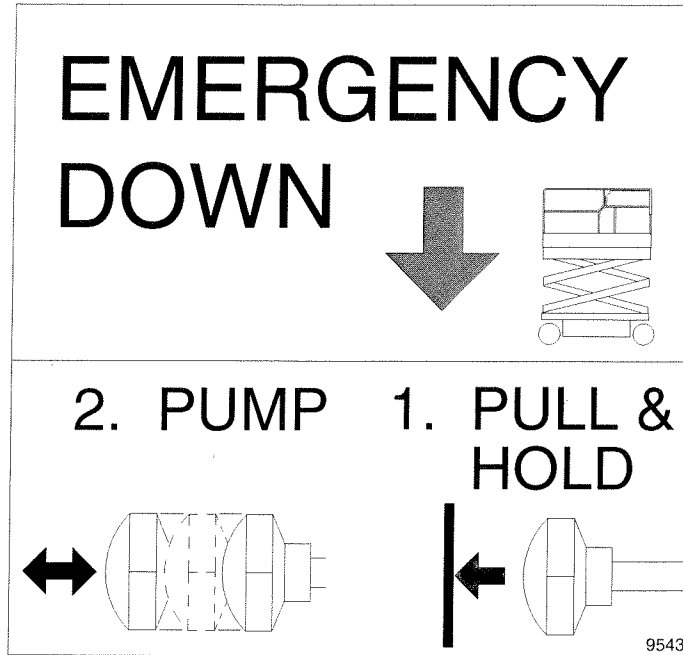


**AFTER RELEASING THE BRAKES, THERE IS NOTHING TO STOP THE MACHINE'S TRAVEL. MACHINE WILL ROLL FREELY ON SLOPES. BE ON GUARD AGAINST RUNAWAY. DO NOT DRIVE MACHINE WITH BRAKES RELEASED.**

To Reset Brakes:

- ◆ Brakes will reset when drive function is activated or reset by pulling up on free wheeling valve.

## Emergency Lowering Decal



## 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.

### EMERGENCY LOWERING



BEFORE LOWERING PLATFORM, RETRACT THE DECK EXTENSION.

Call your supervisor or qualified repair service.





## **SECTION 3: MAINTENANCE**

## GENERAL MAINTENANCE TIPS

Regular inspection and conscientious maintenance is the key to efficient economical operation of your scissorlift. 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 preventive 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!**

- ◆ Block scissors assembly using maintenance locks 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).....



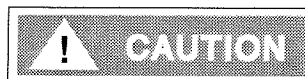
IMMEDIATELY REPORT TO YOUR SUPERVISOR ANY DEFECT OR MALFUNCTION. ANY DEFECT SHALL BE REPAIRED PRIOR TO CONTINUED USE OF THE SCISSORLIFT.

INSPECTION AND MAINTENANCE SHOULD BE PERFORMED BY QUALIFIED PERSONNEL FAMILIAR WITH THE EQUIPMENT.

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

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.



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.



# SHIFT OPERATIONAL CHECKLIST

All checks must be completed before operation of the MEC Scissor Lift.

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

1. Keep inspection records up-to-date.
2. Record and report all discrepancies to your supervisor.
3. A dirty machine cannot be properly inspected.

**KEEP YOUR MACHINE CLEAN!!**



**THIS CHECKLIST MUST BE USED AT THE BEGINNING OF EACH SHIFT OR AFTER EVERY SIX TO EIGHT HOURS OF USE. FAILURE TO DO SO COULD AFFECT THE SAFETY OF THE OPERATOR. ALWAYS REMEMBER, A LITTLE PREVENTATIVE MAINTENANCE CAN SAVE MUCH MORE THAN IT COSTS.**

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 tire pressure (not required for foam filled tires). (See Machine Specification).
_____	5. Check the hoses and the cables for worn areas or chafing. Replace if necessary.
_____	6. Check the platform rails and safety gate for damage.
_____	7. Check the pivot pins for security.
_____	8. Check that all warning and instructional labels are legible and secure.



## SHIFT OPERATIONAL CHECKLIST (Continued).....

INITIAL	DESCRIPTION
---------	-------------

- |       |  |
|-------|--|
| _____ | 9. Inspect the platform control. Ensure the load capacity is clearly marked.   |
| _____ | 10. 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. |
| _____ | 11. Check the base controls for proper operation. Check all switches and push buttons for proper operation.  |
| _____ | 12. Check the platform controls for proper operation. Check all switches and push buttons, as well as ensuring that the drive controller returns to neutral.   |
| _____ | 13. Follow the engine daily service requirements. Refer to the Engine Maintenance Manual.  |

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

# WEEKLY OPERATIONAL CHECKLIST

All checks must be completed before operation of the MEC Scissor Lift.

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

1. Keep inspection records up-to-date.
2. Record and report all discrepancies to your supervisor.
3. A dirty machine cannot be properly inspected.

**KEEP YOUR MACHINE CLEAN!!**



**THIS CHECKLIST MUST BE USED AT WEEKLY INTERVALS OR EVERY 25 HOURS, WHICHEVER OCCURS FIRST. FAILURE TO DO SO COULD AFFECT THE SAFETY OF THE OPERATOR. ALWAYS REMEMBER, A LITTLE PREVENTATIVE MAINTENANCE CAN SAVE MUCH MORE THAN IT COSTS.**

INITIAL	DESCRIPTION
---------	-------------

- |       |   |
|-------|---|
| _____ | 1. Perform all checks listed on Shift Operational Checklist.  |
| _____ | 2. Check wheel lug nuts for proper torque (see "Machine Specifications").                             |
| _____ | 3. Inspect all arms and pivot points for signs of wear and/or damage.                                 |
| _____ | 4. Lubricate the king pins, steering cylinder pivot points, and tie rod ends (see Lubrication Chart). |
| _____ | 5. Check all wire connections.  |
| _____ | 6. Check battery electrolyte level and connections.   |
| _____ | 7. Follow the engine weekly service requirements. Refer to the Engine Maintenance Manual.             |

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



# MONTHLY OPERATIONAL CHECKLIST

All checks must be completed before operation of the MEC Scissor Lift.

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

1. Keep inspection records up-to-date.
2. Record and report all discrepancies to your supervisor.
3. A dirty machine cannot be properly inspected.

**KEEP YOUR MACHINE CLEAN!!**



**THIS CHECKLIST MUST BE USED AT MONTHLY INTERVALS OR EVERY 100 HOURS, WHICHEVER OCCURS FIRST. FAILURE TO DO SO COULD AFFECT THE SAFETY OF THE OPERATOR. ALWAYS REMEMBER, A LITTLE PREVENTATIVE MAINTENANCE CAN SAVE MORE THAN IT COSTS.**

INITIAL	DESCRIPTION
_____	1. Perform all checks listed on Shift and Weekly Operational Checklists.
_____	2. Inspect the condition of hydraulic fluid in the reservoir. Oil should have a clear amber color.
_____	3. Inspect the entire machine for signs of damage, broken welds, loose bolts, improper or makeshift repairs.
_____	4. Check the pin joints and retaining rings for security.
_____	5. Check if tires are leaning in or out.
_____	6. Check that all adjustable flow valves are locked, check setting if any are not locked.
_____	7. Check that the platform does not drift down with a full load.
_____	8. Follow engine monthly service requirements. Refer to the engine maintenance manual.

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

# QUARTERLY OPERATIONAL CHECKLIST

All checks must be completed before operation of the MEC Scissor Lift.

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

1. Keep inspection records up-to-date.
2. Record and report all discrepancies to your supervisor.
3. A dirty machine cannot be properly inspected.

**KEEP YOUR MACHINE CLEAN!!**



**THIS CHECKLIST MUST BE USED AT QUARTERLY INTERVALS OR EVERY 300 HOURS, WHICHEVER OCCURS FIRST. FAILURE TO DO SO COULD AFFECT THE SAFETY OF THE OPERATOR. ALWAYS REMEMBER, A LITTLE PREVENTATIVE MAINTENANCE CAN SAVE MUCH MORE THAN IT COSTS.**

INITIAL	DESCRIPTION
---------	-------------

- |       |  |
|-------|--|
| _____ | 1. Perform all checks listed on Shift, Weekly and Monthly Operational Checklists.        |
| _____ | 2. Follow engine quarterly service requirements. Refer to the Engine Maintenance Manual. |

**Additional Maintenance Requirements For Severe Usage Applications.**

INITIAL	DESCRIPTION
---------	-------------

- |       |  |
|-------|--|
| _____ | 3. Change hydraulic filter element.  |
| _____ | 4. Follow the engine severe usage service. Refer to the Engine Maintenance Manual. |

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



# SEMI-ANNUAL OPERATIONAL CHECKLIST

All checks must be completed before operation of the MEC Scissor Lift.

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

1. Keep inspection records up-to-date.
2. Record and report all discrepancies to your supervisor.
3. A dirty machine cannot be properly inspected.

**KEEP YOUR MACHINE CLEAN!!**



**THIS CHECKLIST MUST BE USED AT SIX MONTH INTERVALS OR EVERY 500 HOURS, WHICHEVER OCCURS FIRST. FAILURE TO DO SO COULD AFFECT THE SAFETY OF THE OPERATOR. ALWAYS REMEMBER, A LITTLE PREVENTATIVE MAINTENANCE CAN SAVE MUCH MORE THAN IT COSTS.**

INITIAL DESCRIPTION

- |       |  |
|-------|--|
| _____ | 1. Perform all checks listed on Shift, Weekly, Monthly and Quarterly Operational Checklist.  |
| _____ | 2. Have a hydraulic fluid sample analyzed at a test laboratory. Comply with the test results and recommendations to ensure long, trouble free operation. |

**IMPORTANT: If Hydraulic Fluid Has Been Regularly Maintained It Should Only Require Changing Once Every Year Depending On Maintenance, Temperature, Application, Duty Cycle, And Atmospheric Conditions.**

- |       |  |
|-------|--|
| _____ | 3. Check the operation speeds to ensure they are within specified limits (see Machine Specifications).                           |
| _____ | 4. Check the emergency lowering system.  |
| _____ | 5. Clean and lubricate all push button switches with dry lubricant and ensure that the switches operate freely in all positions. |

## SEMI-ANNUAL OPERATIONAL CHECKLIST (Continued).....

INITIAL	DESCRIPTION
---------	-------------

- |       |  |
|-------|--|
| _____ | 9. Check the tightness of the platform frame and the linkage pins.                         |
| _____ | 10. Check the overall platform stability.  |
| _____ | 11. Check the electrical mounting and hardware connections for security.                   |
| _____ | 12. Replace the filter element.  |
| _____ | 13. Check the king pins for excessive play.  |
| _____ | 14. Follow engine semiannual service requirements. Refer to the Engine Maintenance Manual. |

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



# 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

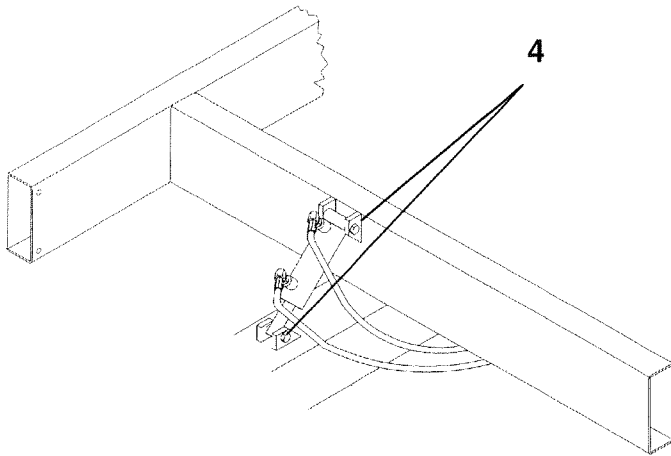
- ◆ Battery cutoff switch?
- ◆ Selector switch turned to proper position (base/ platform)?
- ◆ Emergency stop buttons at both base and platform activated? (Rotate clockwise to release).
- ◆ Battery fully charged?
- ◆ Are any wires pulled out or loose?
- ◆ Is there proper fuel (gas, propane, or diesel) 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:

- ◆ Is a function toggle switch or the enable switch not activated?
- ◆ Is the Base/Off/Platform switch in the proper position?
- ◆ Hydraulic fluid level low?
- ◆ Obvious fluid leak or damaged component?
- ◆ Are any wires pulled out or loose?

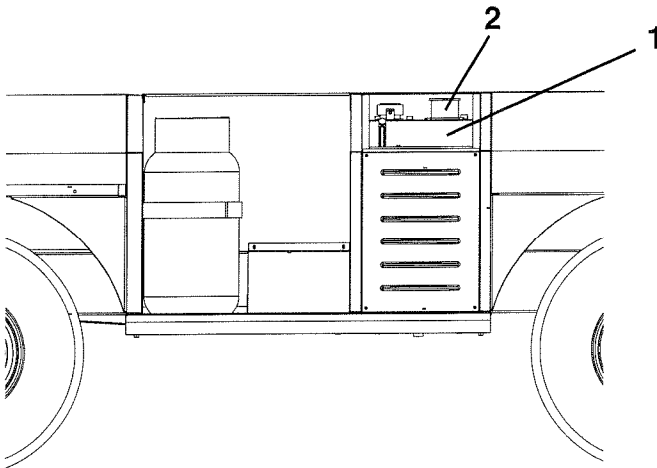


# LUBRICATION DIAGRAM

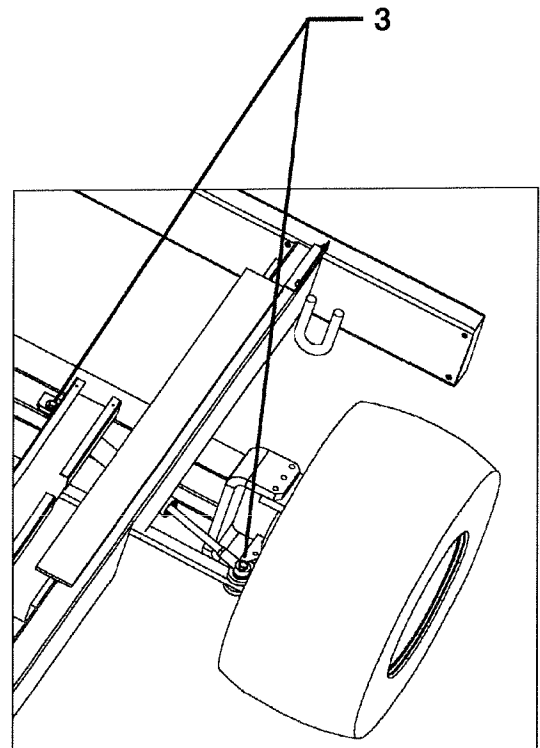


*AxleLub.tif*

**Axle Lubrication**



**Hydraulic Lubrication**



**Steering Cylinder Pivots Lubrication**

*SteerLub.tif*

## LUBRICATION CHART

NO.	ITEM	SPECIFICATION	FREQUENCY OF LUBRICATION
1	Hydraulic Reservoir	Anti-Wear 150 SSU (ISO 32/mil spec 0-5606) Fill To The Top Of The Sight Gauge With Platform In The Stowed Position.	Check Daily. Analyze Every Six (6) Months Or 500 Hours. 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	Steering Cylinder Pivot	Gear Oil - EP 90 Add A Few Drops To Each Pivot Point.	Weekly Or Every 25 Hours, Whichever Occurs First.
4	Axle Lock	Lithium N.L.G.I. #2 EP Purge Old Grease.	Weekly Or Every 25 Hours, Whichever Occurs First.



## **Limited Owner Warranty**

**Mayville Engineering Company, Inc. (MEC) 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 further warrants the structural weldments of the main frame and scissor arms as defined in MEC's current Warranty Policy & Procedures, 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 and prorated thereafter up to one (1) year.**

**Warranty claims within such warranty period shall be limited to repair or replacement, at MEC's option, of the defective part in question and labor to perform the necessary repair or replacement based on MEC's then current flat rate, provided the defective part in question is shipped prepaid to MEC and is found upon inspection by MEC to be defective in material and/or workmanship.**

**Mayville Engineering Company, Inc. 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 is authorized to alter the terms of this warranty, or in any manner assume on behalf of MEC any liability or obligation which exceeds MEC's obligations under this warranty.**





## **Aerial Work Platforms**

**Mayville Engineering Co., Inc.**

An Employee Owned Company

210 Corporate Drive • P.O. Box 990 • Beaver Dam, WI • 53916-0990 USA

1-800-387-4575 • PH: 920-887-2518 • FAX: 920-887-2480

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