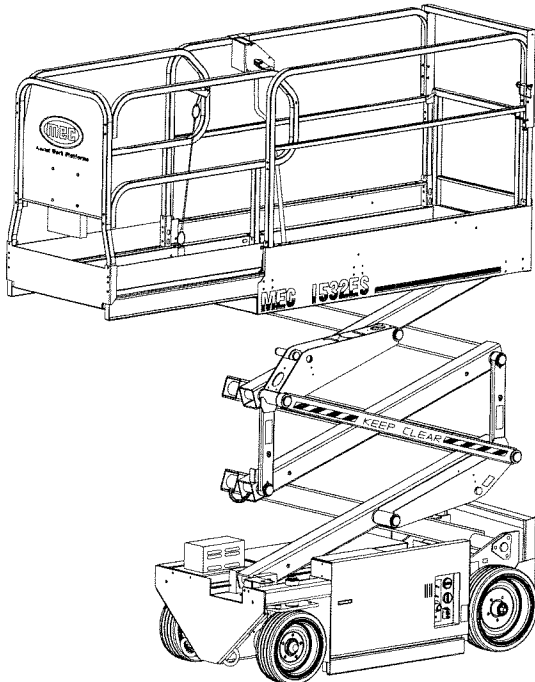


Aerial Work
Platforms

Operation, Safety & Maintenance Manual

Model 1932ES/1532ES



This manual is considered an important part of the aerial work platform. It is vital to communicate necessary safety information to the operator. The operator must be familiar with the manual and reference it as required.

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 purchased 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.

Foreword

The purpose of this manual is to provide users with the operating procedures essential for the promotion of proper machine operation for its intended purpose. It is important to over stress proper machine usage. All information in this manual should be **READ** and **UNDERSTOOD** before any attempt is made to operate the machine. **YOUR OPERATING MANUAL IS YOUR MOST IMPORTANT TOOL** - keep it with the machine. **REMEMBER THAT ANY EQUIPMENT IS ONLY AS SAFE AS THE OPERATOR.**

BECAUSE THE MANUFACTURER HAS NO DIRECT CONTROL OVER MACHINE APPLICATION AND OPERATION, PROPER SAFETY PRACTICES ARE THE RESPONSIBILITY OF THE USER AND ALL OPERATING PERSONNEL.

ALL INSTRUCTIONS IN THIS MANUAL ARE BASED ON THE USE OF THE MACHINE UNDER PROPER OPERATING CONDITIONS, WITH NO DEVIATION FROM THE ORIGINAL DESIGN. ANY ALTERATION AND/OR MODIFICATION OF THE MACHINE IS STRICTLY FORBIDDEN WITHOUT EXPRESS WRITTEN APPROVAL FROM MAYVILLE ENGINEERING COMPANY, INC.

All procedures herein are based on the use of the machine under proper operating conditions, with no deviations from original design intent as per ANSI regulations.

Read and Comply

The ownership, use, service and/or maintenance of this machine is subject to various federal, state and local laws and regulations. It is the responsibility of the owner/user to be knowledgeable of these laws and regulations and comply with them. The owner/user/operator must be familiar with Sections 6, 7, 8, 9 and 10 of ANSI A92.6 Standard. These sections contain the responsibilities of the owners, users, operators, lessors and lessees concerning safety, training, inspection, maintenance, application and operation.



WARNING

Any modification of this machine without the express written consent of Mayville Engineering Co. (MEC) is prohibited. Do not replace any component or part with anything other than the original replacement parts without the Mayville Engineering Company's (MEC) consent.

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/SIAA92.6 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.



WARNING

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



WARNING

- ✚ Failure to comply with **Safety Precautions** could result in death or serious injury.
- ✚ Shut off all power, making the machine inoperative before making any adjustments, performing maintenance, or replacing components.
- ✚ Platform should be in the fully stowed position if possible, or maintenance locks should be in place.
- ✚ Hydraulic pressures should be relieved before loosening or replacing components.
- ✚ Do not replace any component or part with anything other than original MEC replacement parts without the manufacturers consent.
- ✚ Remove all rings, watches, and jewelry before performing any maintenance.
- ✚ Restrain long hair, and do not wear loose clothing or neckties which could become caught or entangled in the equipment.
- ✚ Observe and obey all warnings and cautions on machines and in manuals.
- ✚ Keep oil, grease, water, etc. wiped from all standing surfaces and hand holds.
- ✚ Use only approved, non flammable cleaning solvents.
- ✚ Altering or disabling safety devices is **strictly** prohibited.

TABLE OF CONTENTS



WARNING

Do not perform installations, operate, service, replace, adjust, or maintain equipment on this machine until you have thoroughly read and understood the manual, and have read and understood all sections of the manual that apply to the job you are doing on this machine.

Failure to comply with all warnings posted on this machine and written in this manual could cause death, serious injury, or property damage.

Safety	1
Use Of Notes, Cautions, & Warnings	1
General Operating Safety Rules	1
Safety Features	3
Pre-Delivery Inspection	4
Equipment Literature	4
Pre-Start Inspection	5
Lower Control Panel	5
Upper Control Box	6
Walk Around Check	7
Workplace Inspection	11
Operation	12
General Operating Instructions	12
Extending The Platform	14
Retracting The Platform	14
Sheet Loading Gate	15
Adjustable Control Box	16
Maintenance	17
Maintenance Safety	17
Lubrication And Fluids	17
Hydraulic System Bleeding	18
Hydraulic Pump/Motor Servicing	18
Check & Fill Hydraulic Reservoir	18
Oil Filter Replacement	18
Battery Charger	19
Battery Replacement	20
Charging Batteries	20
Service Helps	21
Transporting	22
Loading, Unloading, & Transporting	22
Parking & Storing	22
Specifications	23
Specification Locations	23
Floor Loading Pressure	30
Decal Replacement	31
Quarterly Inspection Form	43
Alteration/Repairs Record	44
Examination/Test Record	45

SAFETY

Following are definitions of labeling you might encounter on aerial platforms:



Caution - Yellow - Hazards or unsafe practices which **could** result in minor personal injury or product damage.



Warning - Orange - Hazards or unsafe practices which **could** result in severe personal injury or death.



Danger - Red - immediate hazards which **will** result in severe personal injury or death.

MEC designs its work platforms to be safe and reliable. They are rugged and maneuverable, but must be used only for purposes intended. **That is to raise personnel, tools, and necessary equipment to overhead work areas.** Respect your machine; **do not** neglect or misuse it.

Do not operate or maintain this machine until this manual is read and operation of the machine, under the supervision of an experienced and qualified operator, has been completed.

Qualified Operator - A person with knowledge, experience, or training that is familiar with the operation to be performed and the hazards involved.

Never take chances. Do not use the machine if your physical or mental capabilities are limited. Due to illness or tiredness, or if you are taking over the counter or prescription drugs that might impair or limit your capabilities.

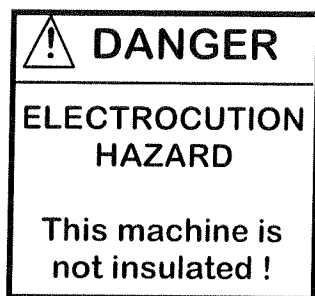
Certain hazards cannot be protected by mechanical means. It is essential that operators be competent, careful, physically and mentally fit and thoroughly trained in the safe operation of this machine.

If an individual fails to understand any segment of this manual, his or her supervisor can clarify the misunderstanding through written correspondence or a phone call to:

Mayville Engineering Co., Inc.
Aerial Work Platforms
210 Corporate Drive
Beaver Dam, WI 53916 USA
Phone: 920-887-2518
800-387-4575
Fax: 920-887-2480

It is **important** that Mayville Engineering be notified immediately of any incident involving a MEC product. Even if no injury or property damage is visible. Failure to notify the manufacturer of an incident involving a MEC product within 48 hours, may void any warranty consideration on that particular machine.

SAFETY



Do not operate machine near power lines.

Do not allow machine, personnel, or conductive materials inside minimum safe approach distance. Allow for platform movement and wire sway or sag.

Assume all electrical parts and wires are energized unless known otherwise.
Keep it Safe !

Under **no** circumstances will any person on the ground attempt to operate the base controls when the machine is in contact with electrical wires .

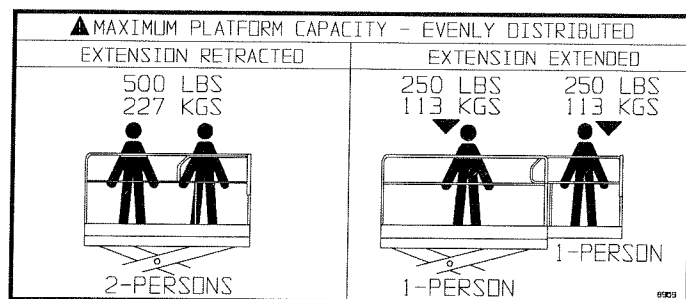
Minimum Safe Approach Distances

Voltage Range Phase to Phase	Minimum Safe Approach Distance	
	Feet	Meters
0 to 300V	AVOID CONTACT	
Over 300V to 50 KV	10	3.05
Over 50 KV to 200 KV	15	4.60
Over 200 KV to 350 KV	20	6.10
Over 350 KV to 500 KV	25	7.62
Over 500 KV to 750 KV	35	10.67
Over 750 KV to 1000 KV	45	13.72

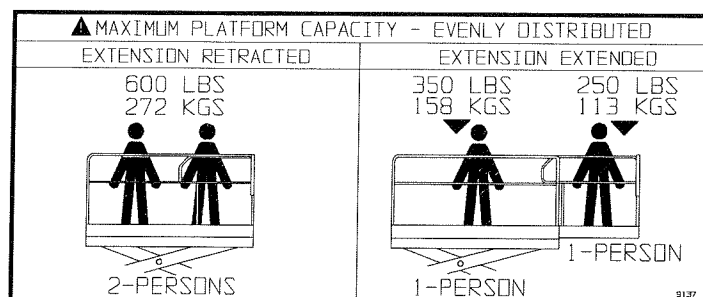
Failure to meet minimum weight requirements may cause machine instability.

Replacement battery must weigh a minimum of 60 pounds.
Replace tires with manufacturer's equipment only.

Do not exceed the load capacity of the platform.



MEC 1932ES



MEC 1532ES

Do not enter or exit platform while machine is in motion.

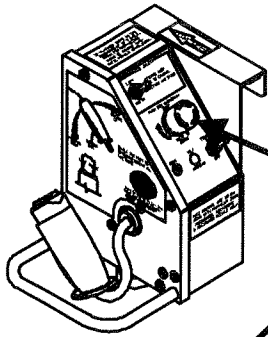
Keep platform floor clean and clear of debris.

Keep hands and limbs out of scissors.

Machine will move at less than 1 mph when the platform is raised above approximately 7 feet. Maximum ground speed with platform raised less than 7 feet is 3 mph.

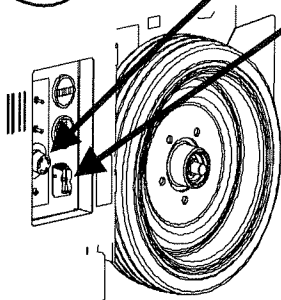
SAFETY

Safety Features



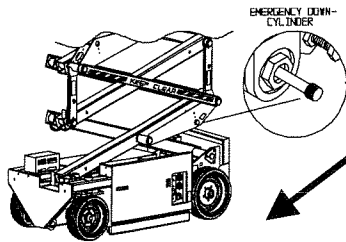
Emergency Stop - The Emergency Stop is a plunger type switch and is located in two places: on the upper control box and on the base control panel. Activate the Emergency Stop by depressing the red cap. To reactivate machine turn the red cap approximately a quarter turn clockwise until the cap pops out.

The machine can also be stopped by switching the battery disconnect to the upright lock out position, which removes all power to the circuits.



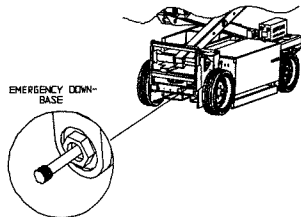
Speed Limit Switch/Pothole Switches - These switches limit driving speed when the platform is raised above approximately 7 feet. Do not alter or disable limit switches.

Automatic Parking Brake - The Automatic Brake is a spring-actuated, normally on system. Brakes are released during the drive cycle.



Emergency Down - The Emergency Down controls are located on the main cylinder and on the base at rear right. Actuate both controls to lower the platform. First, cylinder control, pull and turn clockwise. Second, pull base control to allow platform to slowly descend to the stowed position.

Maintenance Locks **must** be used whenever machine is not in the fully stowed position.

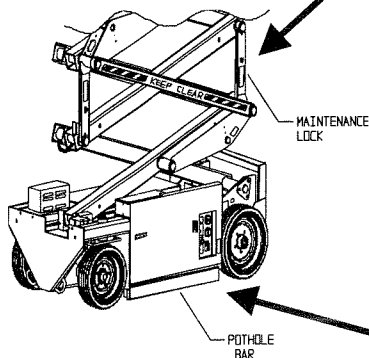


Maintenance Lock Installation

- Remove load from platform.
- Raise platform until both maintenance locks can be pivoted , 1 up, 1 down.
- Pull release pin ring on rear maintenance lock and swing lock down, so notched end of lock is directly above pin.
- Pull release pin ring on front maintenance lock and swing up so notched end of lock is directly below pin.
- Hold front lock in position, slowly lower platform until beams rest completely on both locks.

Maintenance Lock Stowage

- Raise platform far enough so each maintenance lock will clear pins.
- Pull release pin on each lock and swing until even with beam.
- Align release pin with hole in beam and release engaging pin in beam.
- Lower platform to stowed position.



Automatic Pothole Protection - MEC Pothole Protection helps prevent tip-overs if a machine with the platform elevated is accidentally driven into a hole. The Pothole Bars are located under each side of the base. The bars move downward as the platform rises. If either bar cannot lock in place, the unit will not drive. If the pothole bars cannot be fully deployed, lower the platform to the stowed position. Remove any obstruction and/or reposition machine to a location clear of any holes or depressions. The pothole bars should deploy and enable the machine to be driven. Test Pothole bar operation by placing a 2x4 under the bars and raising the platform. Drive function will stop when the platform reaches approximately 7 feet.

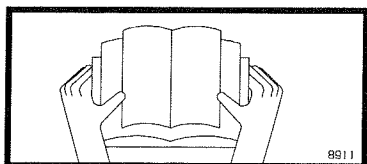
PRE-DELIVERY INSPECTION

- Maintenance Locks **must** be engaged prior to inspecting or servicing machine, when it is not in the fully stowed position.
- Remove all packing materials and inspect machine for damage during shipment. If any damage is found, please note it on the freight bill and report it to the shipper.
- Every machine is fully assembled when shipped from the factory. All fluids are included. The fluid levels must be checked and added as required before initial use. Perform the Walk - A - Round Check as described checking for any possible operation problems. Have any problems corrected before using the machine.
- Record any missing or incorrectly located safety decals. Order and install before use. **All safety decals must be installed before use.** See decal layout at the back of this manual.
- Check each item in Quarterly Inspection Schedule as the inspection is performed. If any item is found to be "N/O" make the necessary correction and check the "R/P" box.
- Turn the battery disconnect switch clockwise to energize the machine for use.
- Reset both emergency stop switches.
- Press circuit breaker on base control panel to reset the breaker in case it has been tripped.

Note

File warranty claims according to policies and procedures which are listed in publication # 5638.

Equipment Literature



The machine is shipped with the following literature, which is inserted in the manual case located at the front rail of the platform.

Material Safety Data Sheet - #6535

1932ES/1532ES Operating Safety and Maintenance Manual - #9139

ANSI/SIA Manual of Responsibilities - #7822

Battery Charger Operating Instructions - #5545C

Dealer Pre-Delivery Inspection Form - #7197

Warranty Registration Card - #5524

EMI Safety Manual - #7004

Replacement literature and parts manuals can be ordered by contacting the factory. To help us serve you, please be prepared to provide the complete publication name and part number.

PRE-START INSPECTION

This section provides identification of all controls and indicators. Check all controls and their functions.

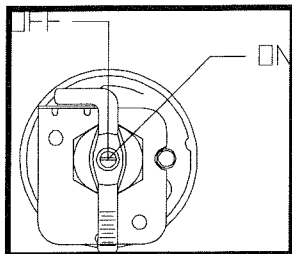
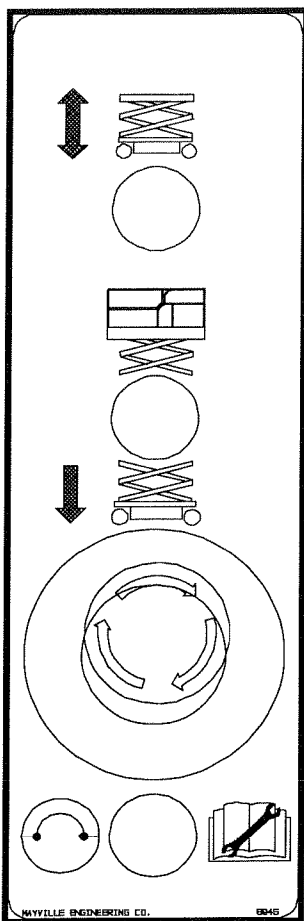
Lower Control Panel

Up/Down Switch - Up position raises platform. Down position lowers platform. Switch will return to center or neutral position when released.

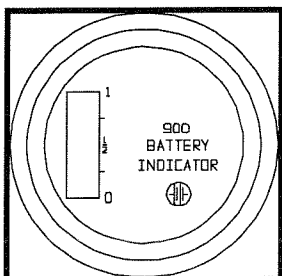
Base/Platform Switch - Power to controls at the platform or the base. Base controls will not operate unless switch is in the base position. Switch will return to platform position when released.

Emergency Stop Switch - Press red cap of switch. All power is turned off. To reset switch, turn red cap approximately a ¼ turn clockwise until cap “pops” out.

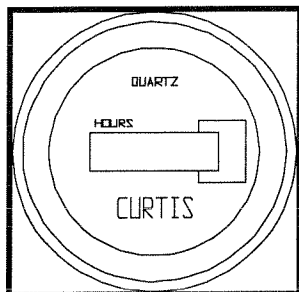
Circuit Breaker - Provides protection to the electrical system. When pushed in power will flow, When sticking out power is interrupted.



Battery Disconnect - Turn handle counterclockwise to an upright position. This removes batteries from all electrical circuits. In this position the handle can be locked to prevent unauthorized use. Turn handle clockwise to reconnect batteries.



Battery Charge Indicator - Optional meter shows the approximate amount of charge in the batteries.

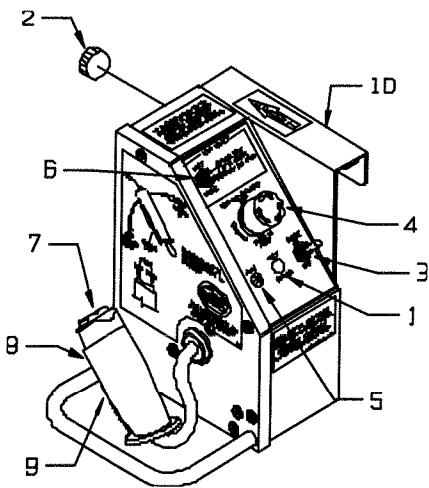


Operation Hour Meter - Optional meter records the number of hours unit has been operated.

PRE-START INSPECTION

WARNING

Do not operate machine if lift, drive, or steer controls do not return to neutral position or malfunction in any way.



Check all controls and their functions.

Upper Control Box - The control box can be removed by twisting plug on the box bottom counterclockwise. The box can then be secured elsewhere to prevent unauthorized use.

1. Tilt Warning Light - Optional light illuminates if unit is not level and platform is being raised.

2. Tilt Alarm - Optional alarm that sounds if unit is not level and platform is being raised.

3. Torque On/Off Switch - ON switch provides more power for driving particularly for going up an incline. (up to 25% gradeability) Ground speed is limited to 1-1/2 mph with Torque On. Normal power in off position.

4. Emergency Stop Switch - Press red cap of switch. All power is turned off. To reset switch, turn red cap approximately a 1/4 turn clockwise until cap "pops" out.

5. Horn Button - Option, press button to sound horn, release button to stop.

6. Mode Select Switch - Lift, control handle will raise or lower platform.
Drive, control handle will control steering and driving.

7. Steering Thumb Switch - Front wheels turn left when left side of rocker is pressed. Front wheels turn right when right side is depressed. Switch will return to neutral position when released. Wheels will remain in the last position until switch is pressed to move them to another position. The wheels will not straighten themselves.

8. Enable Bar - Must be held to use control handle. If bar is released movement of the machine will stop.

9. Control Handle, Drive - Pushing handle toward front of machine causes machine to move forward. Pulling handle toward rear of machine causes machine to move backwards. Handle returns to neutral position when released. Ground speed will increase as handle is pushed farther away from neutral.

Control Handle, Lift - Pulling handle toward rear of machine will raise platform. The further back the handle is pulled the faster the platform will lift. Pushing handle toward front of machine will lower platform. Lowering of the platform is at a fixed speed. Handle returns to neutral position when released.

10. Holder Bracket - Allows control box to be securely on the railing and positioned to operator preference.

PRE-START INSPECTION

MEC Aerial Work Platform Walk-A-Round Check

The Walk-A-Round Check is performed by the operator **before** using the unit for the first time of the day, or by a new operator even if the unit has been used during any part of the day. This check is **critical** to ensuring the **safe** operation of the unit. Any adjustments or replacement of damaged parts **must** be done **before** operation of unit.

When performing the check, visually inspect for obvious damage to specific parts of the unit including:

- Corroded, loose, or missing fasteners.
- Broken or leaking hydraulic, air, or fuel lines and filters.
- Worn, broken, or frayed insulation on power cables.
- Corroded, cracked, abraded, or bent structural members (beams, frame, platform, etc.)
- Review all operational and safety decals and placards, so that they are legible.

Begin the check by standing at the rear, center of the unit. Raise and lower the unit as necessary to view specific parts, or to mount and dismount the platform. **Use maintenance locks when machine is not in the stowed position.** The number of the check in the listing matches a corresponding number in an illustration to help the operator understand and locate the check to be performed.

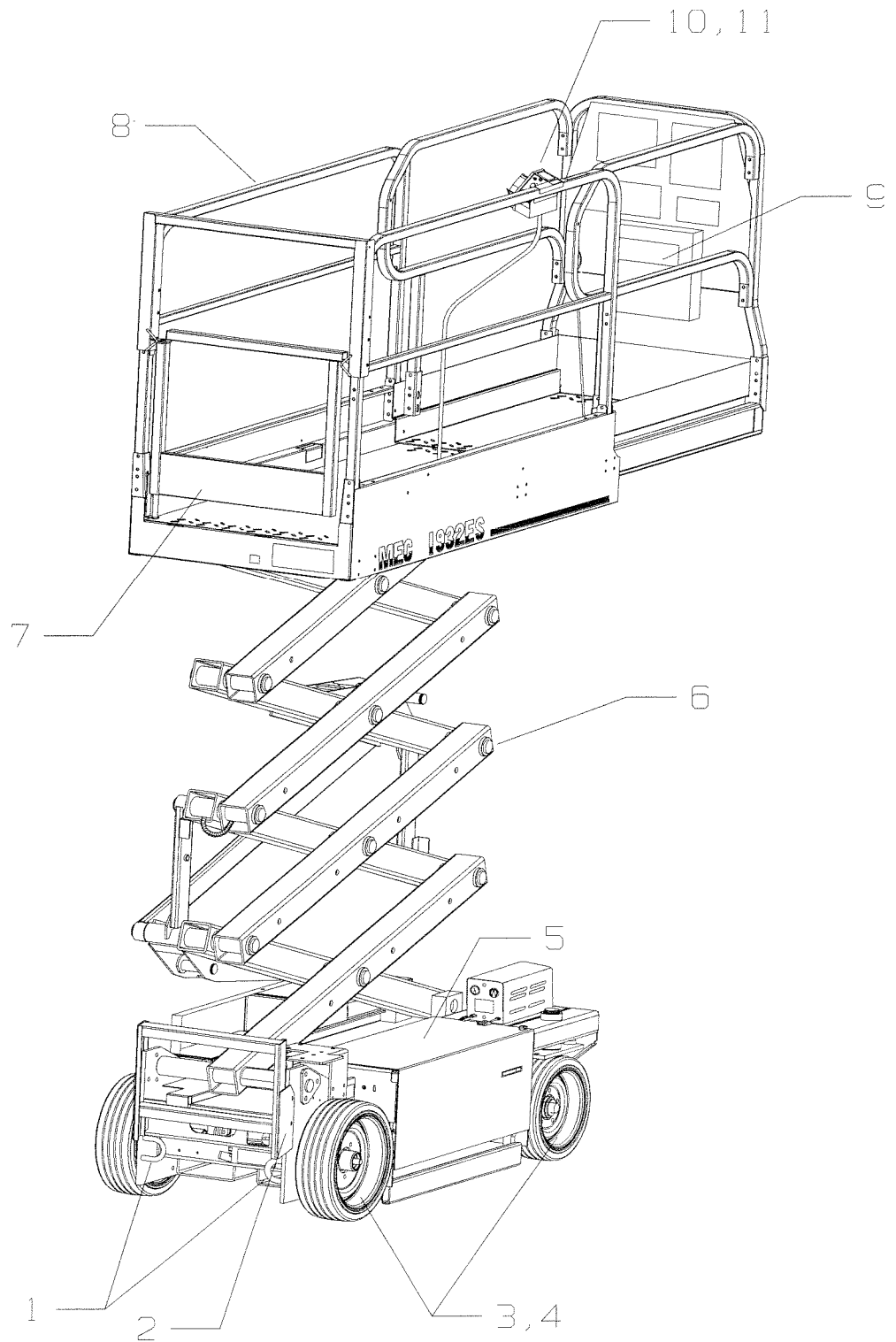
1. Tiedown Rings - Check for broken welds and secure attachment.
2. Ladder - Check ladder for secure and proper installation and obvious damage.
3. Tire Condition - Check for excessive wear and damage to tires.
4. Wheel Condition - Check wheels for bent rims and any loose or missing lug nuts. **Weekly** - Torque nuts to 75-85 ft. lbs. (102-115 N M).
5. Hydraulic Fluid Level - **Weekly** - Fluid should be visible up to full line on dipstick.
6. Broken Welds on Scissors Pivot Collars - Check for broken welds on scissors where each pivot pin collar is attached.
7. Rear Closure - Check rear closure for loose or missing fasteners and obvious damage. Check that it is secure and operates properly.

Mount Platform

8. Platform Railings - Check all railings for secure and proper installation and obvious damage.
9. Manual Case - Check that all documents listed previously are in case on front railing.
10. Upper Control Box Assembly - Check for obvious damage to switches, indicators, and guards.
11. Test upper control box assembly controls and indicators:
 - a. Steer left and right.
 - b. Drive forward/reverse at various speeds with TORQUE OFF.
 - c. Operate brakes on a grade.
 - d. Drive forward/reverse at various speeds with TORQUE ON.
 - e. Raise platform 10-15 feet high. Drive forward to check fast drive speed cut out with platform raised.
 - f. Raise platform to full extension at various speeds.
 - g. Lower platform to stowed position
 - h. While slowly driving forward or backward, press emergency stop. Unit will stop quickly and completely.

PRE-START INSPECTION

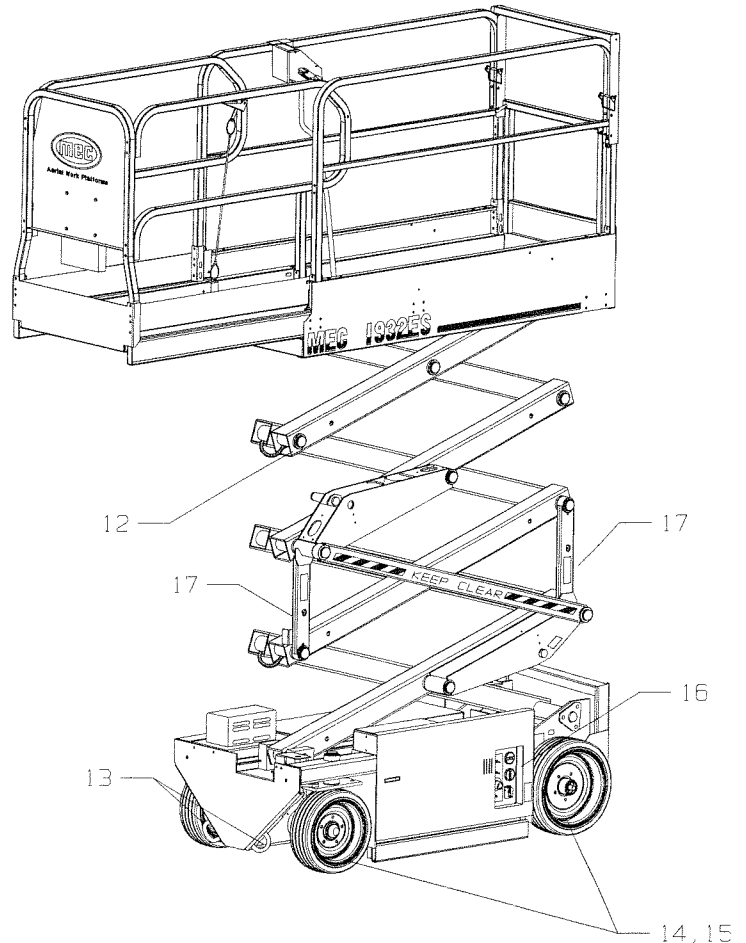
- i. Turn red cap of emergency stop switch $\frac{1}{4}$ turn clockwise until cap “pops” out.



PRE-START INSPECTION

Lower Platform and Dismount

12. Broken Welds on Scissors Pivot Collars - Check for broken welds on scissors where each pivot pin collar is attached.
13. Tiedown Rings - Check for broken welds and secure attachment.
14. Tire Condition - Check for excessive wear and damage to tire.
15. Wheel Condition - Check Wheels for bent rims and any loose or missing lug nuts. **Weekly** - Torque nuts to 75-85 ft. lbs. (102-115 N M).
16. Lower Control Panel - Check for obvious damage to switches, indicators, and guards.
 - a. Check operation of base controls.
 - b. Hold the base/platform switch in the base position.
 - c. Hold the up/down switch in the up position to raise platform a few feet. Release switches.
 - d. Press emergency stop. Hold base/platform switch in base position and toggle the up/down switch both up and down. No platform movement should occur.
 - e. Turn red cap of emergency stop switch ¼ turn clockwise until cap pops out.
 - f. Hold the base/platform switch in the base position and hold the up/down switch in the down position to lower platform to the stowed position. Release switches.
 - g. Battery Disconnect Switch, handle in upright position to disconnect batteries and lock, turn clockwise to reconnect batteries.
17. Maintenance Locks - Check locks for secure attachment to pivot pin with retaining ring and is not bent. Check receiver for damage. Check that storage pin is in place on lock and securely holds lock in secured position.



PRE-START INSPECTION



All pivot areas of scissors and lift cylinder must be checked for wear. A loud scraping noise means the D.U. bearings are damaged and need replacing. Failure to do so will result in extensive damage to structural members and bushings which could create a hazardous condition and could result in injury or death to personnel.

Owner of unit will ensure that an annual inspection is performed no later than thirteen months from the date of the last inspection.

WORKPLACE INSPECTION

The operator **must** check the area where the machine will be used for possible hazards such as:

- Holes or Drop Offs
- Bumps and Floor Obstructions
- Debris
- Overhead Obstructions
- High Voltage Conductors
- Hazardous Locations and Atmospheres
- Inadequate Surface to Hold Weight of Machine
- Wind and Weather
- Presence of Unauthorized People
- Slopes and Unstable Surfaces

And Any Other Possibly Unsafe Conditions

MEC 1932ES AERIAL WORK PLATFORM WALK-A-ROUND INSPECTION

The Walk-A-Round Inspection shall be performed by the operator before using the unit for the first time of the day, or by a new operator even if the unit has been used during any part of the day. The Walk-A-Round Inspection is critical to ensuring the safe operation of the unit.

When performing the Walk-A-Round Inspection, visually inspect for obvious damage to specific parts of the unit including:

- Corroded, loose, or missing fasteners
- Broken or leaking hydraulic lines
- Worn, broken, or frayed insulation on power cables
- Corroded, cracked, abraded, or bent structural members (beams, frame, platform, etc.)
- Review all operational and safety decals and placards, so that they are legible

Begin the check standing at the center of the rear of the unit. Raise and lower the unit as necessary to view specific parts, or to mount and dismount the platform. Remember to use maintenance locks when machine is not in the stowed position. The number of the check in the listing matches a corresponding number in an illustration to help the operator understand and locate the check to be performed.

1. Tiedown Rings - Check for broken welds and secure attachment.
2. Ladder - Check ladder for secure and proper installation and obvious damage.
3. Tire Condition - Check for excessive wear and damage to tires.
4. Wheel Condition - Check wheels for bent rims and any loose or missing lug nuts. **Weekly** - Torque nuts to 75-85 ft. lbs. (102-115 N M).
5. Hydraulic Fluid Level - **Weekly** - Fluid should be visible up to full line on dipstick.
6. Broken Welds on Scissors Pivot Collars - Check for broken welds on scissors where each pivot pin collar is attached.
7. Rear Closure - Check rear closure for loose or missing fasteners and obvious damage. Check that it is secure and operates properly.

Mount Platform

8. Platform Railings - Check all railings for secure and proper installation and obvious damage.
9. Manual Case - Check that all documents listed in Chapter 2 are in case on front railing.
10. Upper Control Box Assembly - Check for obvious damage to switches, indicators, and guards.
11. Test upper control box assembly controls and indicators:
 - a. Steer left and right.
 - b. Drive forward/reverse at various speeds with TORQUE OFF.
 - c. Operate brakes on a grade.
 - d. Drive forward/reverse at various speeds with TORQUE ON.
 - e. Raise platform 10-15 feet high. Drive forward to check fast drive speed cutout with platform raised.
 - f. Raise platform to full extension at various speeds.
 - g. Lower platform to stowed position.
 - h. While slowly driving forward or backward, press emergency stop. Unit will stop quickly and completely.
 - i. Turn red cap of emergency stop switch ¼ turn clockwise until cap "pops" out.

Lower Platform and Dismount

12. Broken Welds on Scissors Pivot Collars - Check for broken welds on scissors where each pivot pin collar is attached.
13. Tiedown Rings - Check for broken welds and secure attachment.
14. Tire Condition - Check for excessive wear and damage to tire.
15. Wheel Condition - Check Wheels for bent rims and any loose or missing lug nuts. **Weekly** - Torque nuts to 75-85 ft. lbs. (102-115 N M).
16. Lower Control Panel - Check for obvious damage to switches, indicators, and guards.
 - a. Hold the base/platform switch in the base position.
 - b. Hold the up/down switch in the up position to raise platform a few feet. Release switches.
 - c. Press emergency stop. Hold base/platform switch in base position and toggle the up/down switch both up and down. No platform movement should occur.
 - d. Check operation of base controls.
 - e. Turn red cap of emergency stop switch $\frac{1}{4}$ turn clockwise until cap "pops" out.
 - f. Hold the base/platform switch in the base position and hold the up/down switch in the down position to lower the platform to the stowed position. Release switches.
 - g. Battery Disconnect Switch, handle in upright position to disconnect batteries and lock, turn clockwise to reconnect batteries.
17. Maintenance Locks - Check locks for secure attachment to pivot pin with retaining ring and is not bent. Check receiver for damage. Check that storage pin is in place on lock and securely holds lock in secured position.

OPERATION

WARNING

Read and understand all safety rules and operating instructions. Improper use of this machine could result in serious injury or death.

WARNING

Do not operate machine from lower control panel with personnel on platform except in an emergency.

Modifications to the machine will only be made with prior written permission by manufacturer. This includes attaching any framework or mounting attachments for holding tools or materials on the platform or guardrails.

Wear safety equipment as required by worksite rules.

Look for and report any hazardous locations.

Be sure there is no slope or grade exceeding the units rating.

Use any stabilizing mechanisms. (outriggers etc.)

Guardrails installed and any gates or closures are shut.

When around other equipment, precautions **must** be taken to comply with local rules or safety standards established for the workplace. Warnings such as but not limited to: flags, roped off areas, flashing lights, and barricades **will** be used.

The operator **will** prevent use by unauthorized persons.

The machine **must** not be used as a crane, or to push, pull or support another object.

The machine **cannot** be operated from a truck, trailer, railway cars, floating vessels, scaffolds, or other similar equipment.

Capacities **will not** be exceeded.

Personnel **must** keep a firm footing on the platform floor. Use of boards, ladders, or any other devices on the machine for achieving additional height or reach are prohibited.

Immediately report any problems or malfunctions that become apparent. Any problems or malfunctions **will** be repaired before continued use.

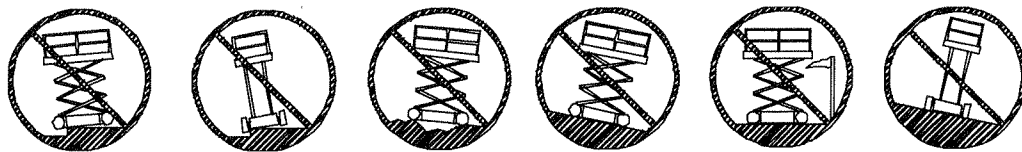
Minimum safe approach distances to all electrical parts and wires. See chart in safety section. **Machine is not insulated !**

Maintain a safe distance from overhead obstructions.

Carrying materials larger than the platform (drywall etc.) **must** be evenly distributed and be safely handled by people working on the platform.

Stunt driving and horseplay are prohibited !

OPERATION



WARNING

If tilt alarm sounds and/or tilt light illuminates when platform is raised, lower platform completely and reposition machine so it is level.

Limit speed according to area conditions. i.e. ground conditions, congestion, visibility, slope, and people.

Maintain a clear path of travel. Stay a safe distance from obstacles, debris, drop offs, holes, depressions, ramps, and other hazards.

The machine **must** not be positioned against another object to steady the unit.

If unit becomes caught or prevented from normal motion by structures or obstacles, all personnel **will** be removed before attempting to free unit.

Care shall be taken to prevent rope, electric cords, and hoses, etc. From becoming tangled in the machine.

The operator **must** be sure that area is clear of personnel and equipment before lowering platform.

When fueling or charging batteries the machine **will** be shut down. This **must** be done in a well ventilated area, free of flame, sparks or other hazards which may cause fire or explosion. **No Smoking !**

Altering or disabling safety devices is prohibited !

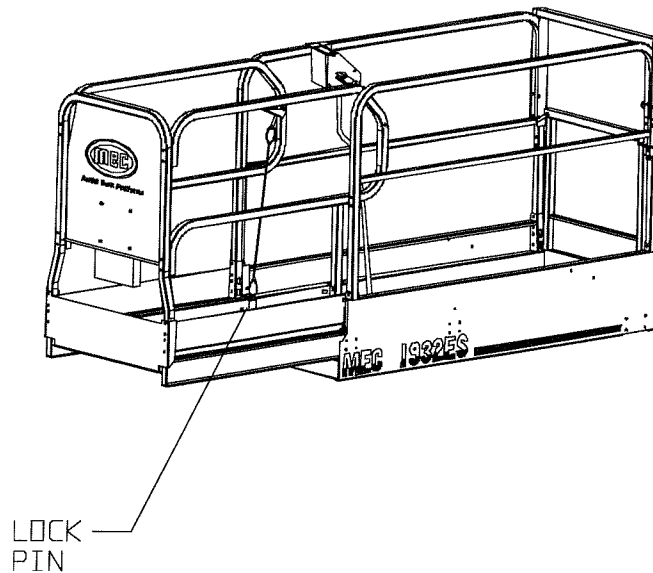
OPERATION

Extending Extended Platform

With your right hand, squeeze handle and hold so pin disengages from locking holes. Locking holes are spaced 6" apart.

With your left hand, grasp rail and push platform out to desired position.

Release handle so lock pin securely engages in one of the locking holes in platform.



▲ WARNING

- PLATFORM EXTENSION MUST BE LOCKED IN PLACE AT ALL TIMES.
- SHEET LOADING GATE MUST BE IN LOWERED LOCKED POSITION BEFORE OPERATING FROM PLATFORM.
- ENTRANCE GATE/CHAIN MUST BE IN CLOSED POSITION BEFORE OPERATING FROM PLATFORM.

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

NAVIGATE INSTRUCTIONS © 2017

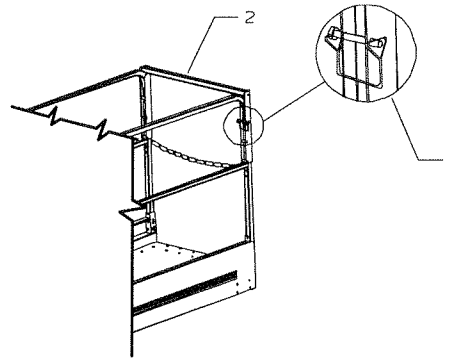
Retracting Extended Platform

With your right hand, squeeze handle and hold so pin disengages from locking holes. Locking holes are spaced 6" apart.

With your left hand, grasp rail and pull platform in to desired position.

Release handle so lock pin securely engages in one of the locking holes in platform.

OPERATION



WARNING

Always use “three point contact” when entering or exiting the platform.

Meaning: 3 out of 4 arms and legs are in contact with the machine at all times.

Sheet Loading Gate

To Raise Gate:

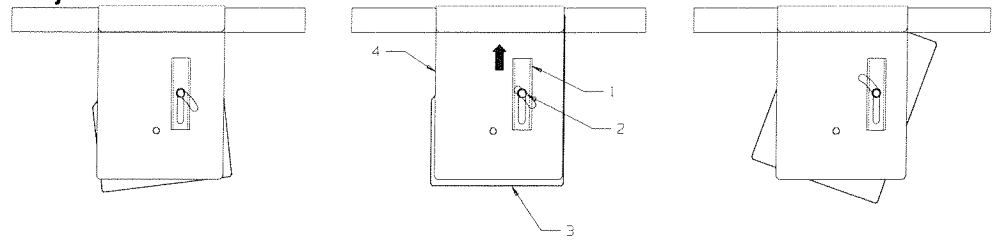
1. Pull out wire lock pin located on rear gate rail.
2. Slide upper section of gate all the way up and align lock pin with hole.
3. Insert lock pin into hole.

To Lower Gate:

1. Pull out wire lock pin located on rear gate rail.
2. Slide upper section of gate all the way down and align lock pin with hole.
3. Insert lock pin into hole.

OPERATION

Adjustable Control Box



1. Lock Bracket - Move bracket up, in direction of arrow, to lock control box onto railing.
2. Thumbscrew - Loosen thumbscrew to allow bracket to move. Position control (Not Shown) box to the desired angle. Tighten screw to secure control box.
3. Control Box - In this view it is in the centered position.
4. Control Box Holder Bracket - This allows the Control Box to be placed securely on the railing. The angled slot allows the Control Box to be positioned to the operators preference.

A “time-out” will occur if the enable bar on the joystick is depressed for more than 20 seconds without actuating any other controls. Release the enable bar and joystick for 1 second then depress bar and move joystick this will reactivate the controls.

MAINTENANCE



WARNING

Never inspect hydraulic hoses with hands. Escaping fluids can cause serious injury. Use a piece of cardboard or other material to inspect for leaks. Escaping fluid under pressure can be invisible and penetrate the skin, causing serious injury.

If any fluid is injected into the skin, seek medical attention immediately.



WARNING

Keep machine clear of lubricants and other combustible material.



WARNING

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

8815

Maintenance Safety

Disconnect all power before maintaining machine.

Check that all controls are in the **off** position.

Secure machine from any movement.

Put platform in **fully stowed** position. If this is not possible use maintenance locks.

Relieve all hydraulic pressure before loosening or removing hydraulic components.

Replace all components with those that are equal or identical to the original.

Lubrication & Fluids

The aerial work platforms are almost lubrication free. Pivot points within the scissors include self-lubricating bearings. Other requirements:

Batteries.....Battery Water.....Distilled Water.....Weekly

Rails.....Sheet Gate Slide Area.....Light Grease.....Semi-annually

Scissors.....Platform Slides (1).....Light Grease.....Semi-annually

Base Slides (2).....Light Grease.....Semi-annually

Rear Axle.....Rear Hubs.....Bearing Grease.....Annually

Hydraulics.....Hydraulic Oil.....Standard 10W.....Annually
Non-Detergent
Hydraulic Oil

Hydraulic Oil Filter.....10 Micron.....Annually
Spin On
Oil Filter

MAINTENANCE

Hydraulic System Bleeding

The hydraulic system is self-bleeding. After the system has been drained, such as during the replacement of a hydraulic component, move the machine up and down for six cycles and recheck the reservoir fluid level between each cycle. Fill as required.

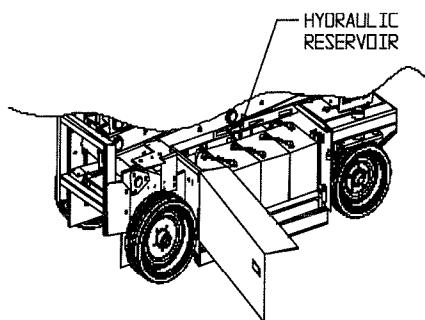
Hydraulic Pump/Motor Servicing

The brushes and commutator should be checked every six months and replaced if necessary. $\frac{1}{4}$ " minimum length on brushes.

Time spans vary depending on how the machine is used and the condition of the batteries.

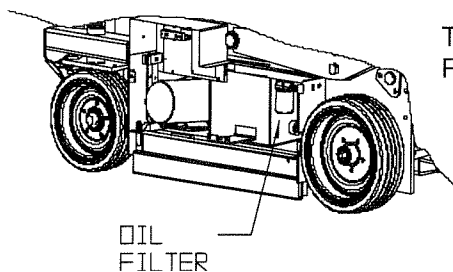
It is highly recommended to keep batteries fully charged and in top condition to eliminate service problems. This also extends the life of the motor and brushes.

Check and Fill Hydraulic Reservoir



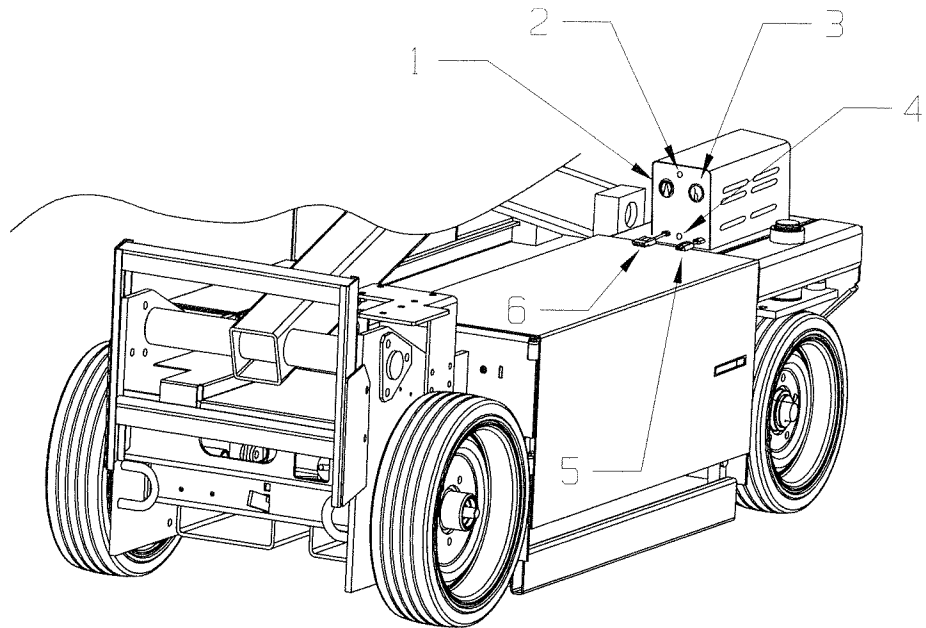
1. Lower platform to **fully stowed** position.
2. Remove filler cap by turning to the left.
3. Check hydraulic fluid level by looking at fluid level on dipstick. Add fluid as necessary.
4. Replace filler cap.

Oil Filter Replacement



The spin-on oil filter in the hydraulic system should be changed yearly. Replace with filter part number: **6156 only**.

MAINTENANCE

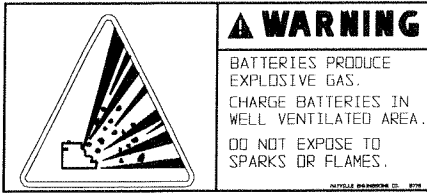


Battery Charger Controls and Indicators

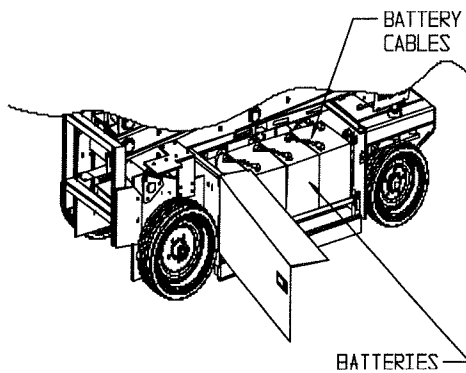
- | | |
|--------------------------------|--|
| 1. Timer Switch..... | Controls amount of time batteries will charge. Not used on automatic chargers. |
| 2. Pilot Light..... | Illuminates when timer switch is on. For automatic charger light illuminates when charging has begun. Light turns off when charging is complete. |
| 3. Charge Rate Ampere Meter... | Indicates the rate of charge to the batteries. |
| 4. Circuit Breaker | Protects charging system from electrical shorts. |
| 5. Input AC Power Plug..... | Power source connects to charger. See correct voltage requirements on your charger. |
| 6. Input DC Power Plug..... | Power source connects to charger. See correct voltage requirements on your charger. |

MAINTENANCE

Battery Replacement



1. Raise machine and install maintenance locks.
2. Turn Battery Disconnect handle to the upright or "OFF" position.
3. Open battery access panel.
4. Note and record battery cable connections by drawing a sketch and/or tagging all items to ensure proper installation of new batteries.
5. Disconnect all battery cables.
6. Remove all batteries.
7. Install new batteries in proper locations referring to sketch and/or tags.
8. Coat all battery terminals with petroleum jelly or equivalent coating.
9. Securely connect all battery cables to proper terminals referring to sketch and/or tags.
10. Close battery access panel and secure.
11. Turn Battery Disconnect handle to right to connect electrical circuits to batteries.



Charging Batteries

1. Raise machine and install maintenance locks.
2. Turn battery disconnect handle to the upright or "OFF" position.
3. Replace any battery that is damaged or no longer holds a charge.
4. Check fluid level in each battery. Add distilled water if plates are not covered. **Do not overfill. Never** add acid to battery.
5. Thoroughly clean battery cables and terminals. Use a solution of 5 teaspoons baking soda to a quart of warm water.
6. Make sure battery connections are tight.
7. Using a suitable extension cord, connect charger to a properly grounded circuit.
8. Turn timer switch to on. Charge batteries. Pilot light will illuminate and charge meter will indicate rate.
9. When fully charged, turn timer switch to off. Remove charger from power source.
10. Check fluid, add distilled water if plates are not covered.
11. Turn battery disconnect handle to right to connect electrical circuits to batteries.

MAINTENANCE

Charging Helps

Surrounding temperature has considerable effect on the charge of the battery.

A battery 100% charged at 80° F (26.6° C)
drops to 65% charged at 32° F (0° C)
drops to 40% charged at 0° F (-32° C)

A battery 46% charged at 80° F (26.6° C)
drops to 32% charged at 31° F (-1° C)
drops to 21% charged at 0° F (-32° C)

Whenever the battery temperature reaches 125° F (93° C), the charging rate should be reduced or the battery taken off charge and cooled to room temperature.

Monthly equalizing charges of 25% over the regular charge are recommended. This charge must be delivered at a low rate to eliminate excessive gassing.

Bring batteries to a full charge as soon as possible after a period of continuous use. A full charge is measured by a hydrometer reading of 1.265 at 80° F (26.6° C).

Lead plates in discharged batteries will harden and become sulfated, which will shorten battery life. Several long, slow charges at a low rate are necessary to correct the sulfating and hardened plates.

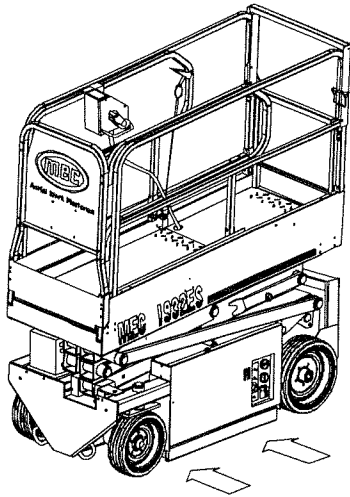
Do not overcharge battery. This causes battery to boil dry.

Service Helps

If machine is not functioning, check the following items **BEFORE** calling a service technician:

1. Battery disconnect is in the upright position.
2. Base control switch is not in base position on control panel.
3. Circuit breaker needs to be reset.
4. Emergency stop switch is activated. (Either on lower control panel or upper control box.) to reset turn red cap approximately a quarter turn clockwise until the cap pops out.
5. 20 amp ground fuse is operational.

TRANSPORTING



FORKLIFT - EITHER SIDE

Loading, Unloading and Transporting

Common sense and planning must be used to control the movement of the machine when loading, unloading or transporting.

The transport vehicle must be parked on a level surface and secured to prevent rolling while the machine is being loaded.

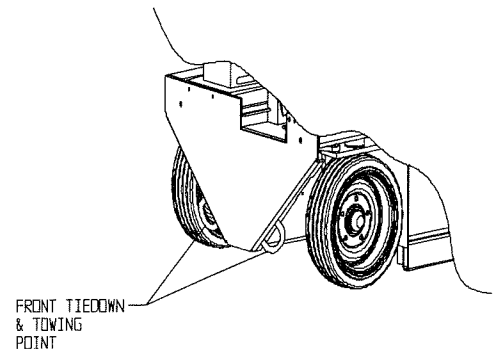
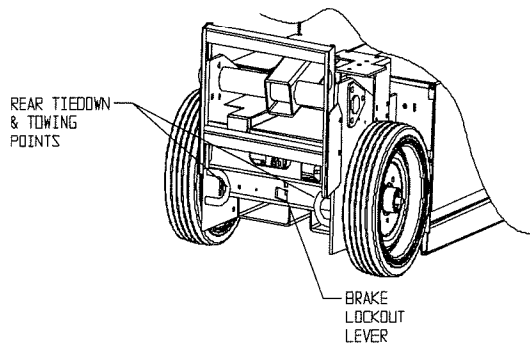
Vehicle capacity, loading equipment, and surfaces must be capable of supporting machine weight and meeting ANSI/OSHA Standards. The platform of the machine must remain fully stowed during all loading, unloading and transporting.

The unit may be fork-lifted from the side. The operator must watch balance points and the length of the forks to ensure that they reach the full width of the unit.

The machine must be secured to the transport vehicle with chains or straps of ample load capacity. The tiedown loops are provided to secure the unit during transportation.

The machine may be towed, from the winch point, up to 1,000 ft. at a speed no greater than 5 m.p.h.

To tow the unit, the Brake Lockout Lever must be raised when energizing a drive function and held until locked. If a drive function doesn't work, the two compression springs must be loosened by backing off the retaining bolts.



Parking and Storing

Drive the machine to a reasonably well protected and ventilated area.

Make sure the platform is in the fully stowed position.

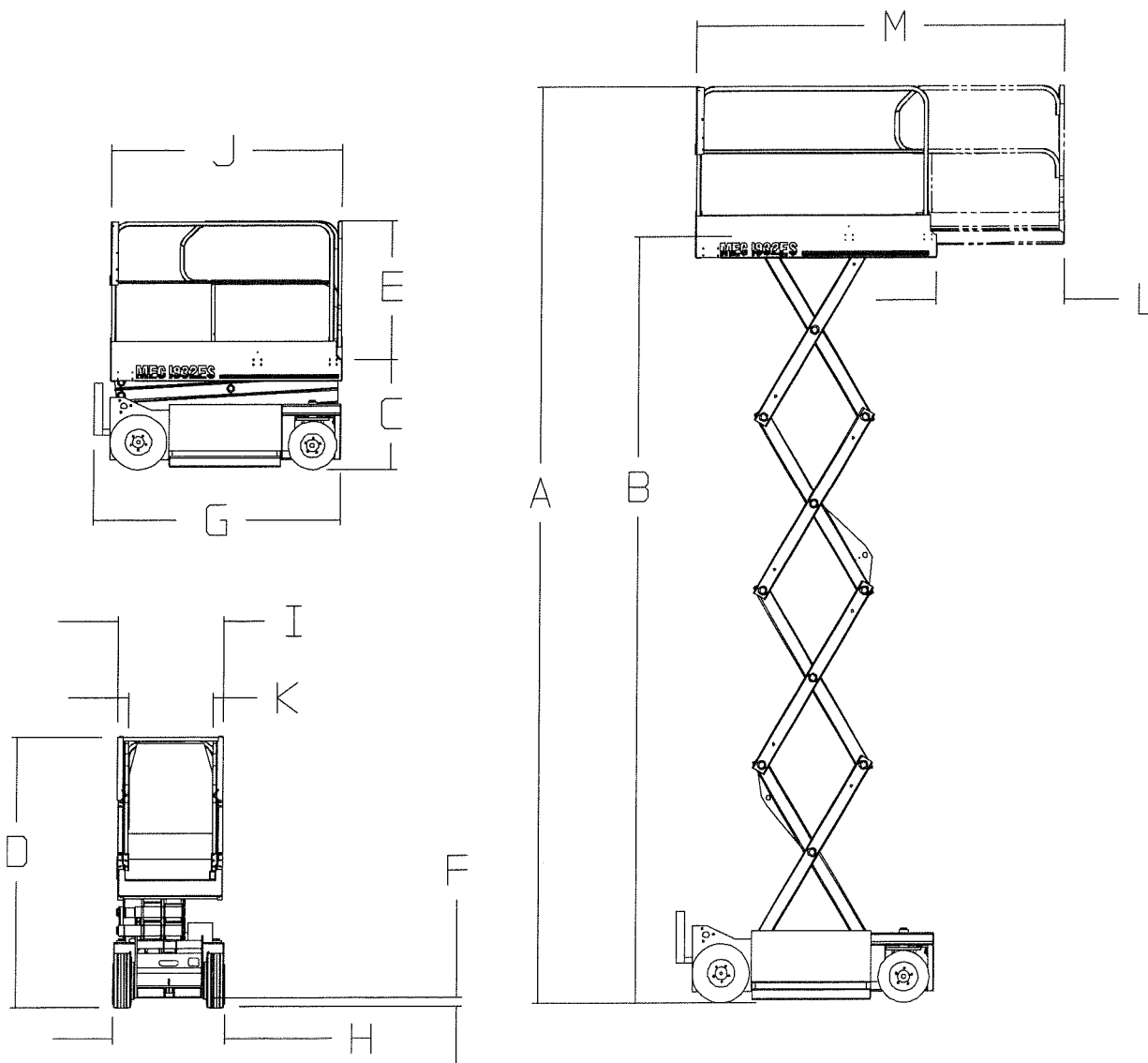
Both Emergency Stop Switches by depressing red caps.

If necessary, cover the caution and warning decals and the control box so they will be protected from the environment.

NOTES

1932ES SPECIFICATIONS

Provided here is the important dimensional, capacity, and capability information.. The illustration below contains letter call outs that match letters on the far right side of the facing page. This permits you to clearly identify significant information you need. Because we constantly strive to improve our products, we may make changes to these specifications without issuing a notice to you.



1932ES SPECIFICATIONS

Height

Clearance Required At Full Extension...	268"	(7.0 m)	A
To Platform.....	18' 11"	(5.77m)	B
Stowed To Platform.....	38 ½"	(0.98 m)	C
Stowed Overall.....	79 ½"	(2.01 m)	D
Rail Height.....	41"	(1.04 m)	E
Add 8" When Sheet Loading Gate Is Extended			
Euro Rails.....	43 ½"	(1.10 m)	
Kick Panels.....	6"	(0.15 m)	

Clearance

Ground Clearance.....	3"	(7.62 cm)	F
Ground Clearance W/Pothole Protection ...	5/8"	(15.9 mm)	

Length

Overall Machine.....	70 ½"	(1.79 m)	G
----------------------	-------	----------	----------

Width

Overall Machine.....	32"	(0.81 m)	H
----------------------	-----	----------	----------

Platform

Platform Width.....	26 1/4"	(0.67 m)	I
Platform Length	66"	(1.68 m)	J
Extended Platform Width.....	25 3/4"	(0.65 m)	K
Extended Platform Length.....	36"	(0.91 m)	L
Overall Extended Platform Length.....	102"	(2.60 m)	M

Entrance Opening

Normal Operation.....	26" X 40"	(0.66 m X 1.02 m)	
Sheet Loading Operation.....	26" X 48"	(0.66 m X 1.22 m)	

Lift Capacity

Main Platform - Not To Exceed.....	500 lbs.	(227 kg)	
2 Persons + Materials Evenly Distributed			
Extended Platform - Not To Exceed.....	250 lbs.	(113 kg)	
1 Person + Materials Evenly Distributed			

Gradeability

Unit Must Be Fully Stowed.....	25 %	
--------------------------------	------	--

Weight

Approximately.....	2442 lbs	(1108 kg)	
--------------------	----------	-----------	--

Turning Radius

Inside - Approximately.....	2"	(51 mm)	
Curb To Curb			
Outside	67"	(1.70 m)	

Center Of Gravity

Stowed Position.....	TBA	
Fully Extended.....	TBA	

1932ES SPECIFICATIONS

Speed

Lift	From Base	17 Seconds - Fixed Speed
	From Platform	17 Seconds To 5 Minutes - Proportional Speed
Lower		25 Seconds - Fixed Speed
Drive	Platform Below 7 Feet ..0 To 3 mph - Proportional Speed	
	Platform Above 7 Feet ..0 To ¾ mph - Proportional Speed	

Electrical

Batteries - 24 VDC..... 4 @ 6V Deep Cycle Golf Cart Battery, 10 ¼" L X 7" W X 11 ¼" H
BCI Group Size GC2, 105 Minutes @ 75 Amps Draw
218 Amp Hours @ 20 Hour Rating

Note: Replacement Battery **Must Weigh At Least 60 Pounds** To
Maintain The Stability Factor Of The Machine.

Charger Input..... 110 VAC, 60 Hz, 5.6 Amp
Output 24 VDC, 15 Amps Tapering, Timed Shut Off

Electric Motor 24 VDC, 2 Hp @ 82 Amps, 3000 RPM
Continuous Duty

Hydraulic

Hydraulic Reservoir Capacity 3 Gallons
Hydraulic Filter 10 Micron Cartridge (P/N 6156)
Hydraulic Pressure Settings
Main Line 2800 PSI
Lift 2350 PSI
Steering 820 PSI
Counterbalance 450 PSI

Tires

Front Tire Size14" Diameter x 4½" Wide
Rear Tire Size 16" Diameter x 5" Wide

Note: Tires On The MEC1932ES **Must** Be Replaced With Manufacturer's Replacement
Tires To Maintain The Stability Factor Of The Machine. Check Lug Nuts Weekly.

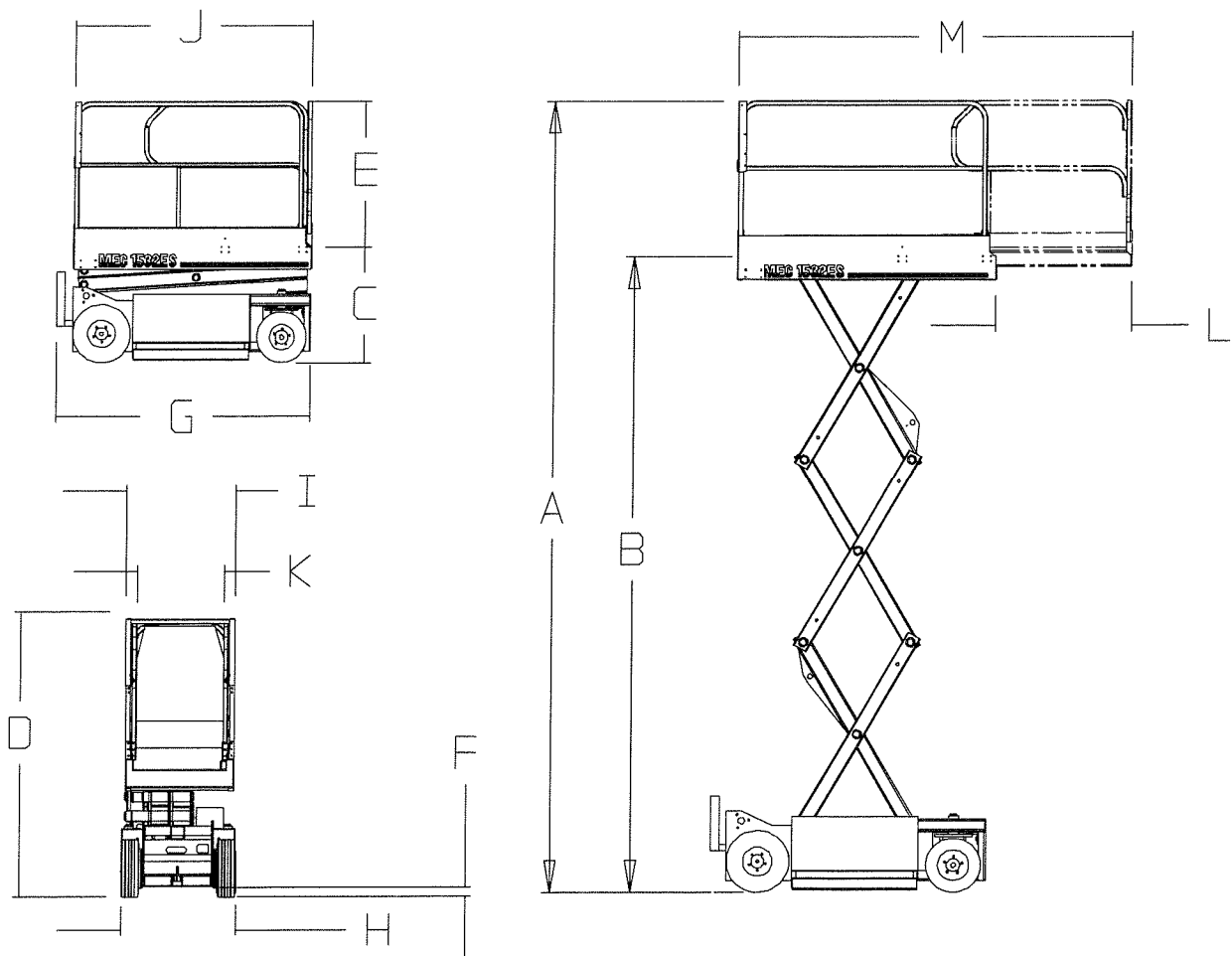
Torque Specifications

Tire Lug Nuts 75 - 85 FT. LBS.
Hydraulic Valve Valve To Manifold 12 FT. LBS.
(cartridge)
Valve Nut To Valve15 IN. LBS.
Hydraulic Drive Motor 300 FT. LBS. Then Tighten To Next Slot
On Castle Nut And Install Cotter Pin.
Rear Axle Tighten To Take Play Out Of Bearings,
And Then Tighten To Next Cotter Pin Slot
Do Not Over Tighten.

NOTES

1532ES SPECIFICATIONS

Provided here is the important dimensional, capacity, and capability information.. The illustration below contains letter call outs that match letters on the far right side of the facing page. This permits you to clearly identify significant information you need. Because we constantly strive to improve our products, we may make changes to these specifications without issuing a notice to you.



1532ES SPECIFICATIONS

Height

Clearance Required At Full Extension...	217"	(5.51 m)	A
To Platform.....	14' 8"	(4.51 m)	B
Stowed To Platform.....	34 ½"	(0.88 m)	C
Stowed Overall.....	75 ½"	(1.92 m)	D
Rail Height.....	41"	(1.04 m)	E
Add 8" When Sheet Loading Gate Is Extended			
Euro Rails.....	43 ½"	(1.10 m)	
Kick Panels.....	6"	(0.15 m)	

Clearance

Ground Clearance.....	3"	(7.62 cm)	F
Ground Clearance W/Pothole Protection ...	5/8"	(15.9 mm)	

Length

Overall Machine.....	70 ½"	(1.79 m)	G
----------------------	-------	----------	----------

Width

Overall Machine.....	32"	(0.81 m)	H
----------------------	-----	----------	----------

Platform

Platform Width.....	26 1/4"	(0.67 m)	I
Platform Length	66"	(1.68 m)	J
Extended Platform Width.....	25 3/4"	(0.65 m)	K
Extended Platform Length.....	36"	(0.91 m)	L
Overall Extended Platform Length.....	102"	(2.60 m)	M

Entrance Opening

Normal Operation.....	26" X 40"	(0.66 m X 1.02 m)	
Sheet Loading Operation.....	26" X 48"	(0.66 m X 1.22 m)	

Lift Capacity

Main Platform - Not To Exceed.....	600 lbs.	(273 kg)	
2 Persons + Materials Evenly Distributed			
Extended Platform - Not To Exceed.....	250 lbs.	(113 kg)	
1 Person + Materials Evenly Distributed			

Gradeability

Unit Must Be Fully Stowed.....	25 %	
--------------------------------	------	--

Weight

Approximately.....	2370 lbs	(1075 kg)	
--------------------	----------	-----------	--

Turning Radius

Inside - Approximately.....	2"	(51 mm)	
Curb To Curb			
Outside	67"	(1.70 m)	

Center Of Gravity

Stowed Position.....	TBA	
Fully Extended.....	TBA	

1532ES SPECIFICATIONS

Speed

Lift	From Base	15 Seconds - Fixed Speed
	From Platform	15 Seconds To 5 Minutes - Proportional Speed
Lower		20 Seconds - Fixed Speed
Drive	Platform Below 7 Feet ..0 To 3 mph - Proportional Speed	
	Platform Above 7 Feet ..0 To ¾ mph - Proportional Speed	

Electrical

Batteries - 24 VDC..... 4 @ 6V Deep Cycle Golf Cart Battery, 10 ¼" L X 7" W X 11 ¼" H
BCI Group Size GC2, 105 Minutes @ 75 Amps Draw
218 Amp Hours @ 20 Hour Rating

Note: Replacement Battery **Must Weigh At Least 60 Pounds** To
Maintain The Stability Factor Of The Machine.

Charger

Input.....	110 VAC, 60 Hz, 5.6 Amp
Output	24 VDC, 15 Amps Tapering, Timed Shut Off

Electric Motor

24 VDC, 2 Hp @ 82 Amps, 3000 RPM
Continuous Duty

Hydraulic

Hydraulic Reservoir Capacity 3 Gallons
Hydraulic Filter 10 Micron Cartridge (P/N 6156)
Hydraulic Pressure Settings
Main Line 2750 PSI
Lift 1900 PSI
Steering 820 PSI
Counterbalance 450 PSI

Tires

Front Tire Size14" Diameter x 4½" Wide
Rear Tire Size 16" Diameter x 5" Wide

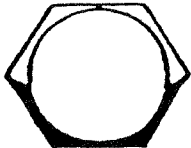


Note: Tires On The MEC1932ES **Must** Be Replaced With Manufacturer's Replacement
Tires To Maintain The Stability Factor Of The Machine. Check Lug Nuts Weekly.

Torque Specifications

Tire Lug Nuts 75 - 85 FT. LBS.
Hydraulic Valve Valve To Manifold 12 FT. LBS.
(cartridge)
Valve Nut To Valve15 IN. LBS.
Hydraulic Drive Motor 300 FT. LBS. Then Tighten To Next Slot
On Castle Nut And Install Cotter Pin.
Rear Axle Tighten To Take Play Out Of Bearings,
And Then Tighten To Next Cotter Pin Slot
Do Not Over Tighten.

SPECIFICATIONS

Bolt Torque

			
Bolts	Grade 2	Grade 5	Grade 8
1/4" - 20	49 in lbs. (5.5 NM)	76 in lbs. (8.6 NM)	9 ft lbs. (12 NM)
5/16" - 18	8 ft lbs. (11 NM)	3 ft lbs. (18 NM)	18 ft lbs. (24 NM)
3/8" - 16	15 ft lbs. (20 NM)	23 ft lbs. (31 NM)	33 ft lbs. (45 NM)
7/16" - 14	24 ft lbs. (33 NM)	37 ft lbs. (50 NM)	52 ft lbs. (70 NM)
1/2" - 13	37 ft lbs. (50 NM)	57 ft lbs. (77 NM)	80 ft lbs. (109 NM)

Grade markings for bolts grades 2, 5 and 8 are based on SAE J429. Markings may be raised or depressed. (Manufacturer's option)

Note:

Any bolt replacement should be of the same grade or greater than the original bolt. Any questions, call factory for verification.

SPECIFICATIONS

Floor Loading Pressure

In certain field applications there is a need to specify the weight and rated work load of a machine in terms of “**Floor Loading Pressure**”. There are two basic measurements that must be considered: **Local Concentrated Pressure** and **Overall Uniform Pressure**.

Local Concentrated Pressure

This measurement is of concern in conditions where the floor surface (i.e. tile floor) on which the machine is being used needs to be protected from indentations or breaking due to high pressure being exerted on a relatively small area. This pressure is extremely high, especially for solid or monofilled tires, since the harder the tire the smaller the footprint.

Local concentrated pressure is based on:

1. The maximum load exerted on one tire of the machine.
2. The actual measured footprint area of the particular tire.

Foot Print = Length x Width

$$\text{PSI} = \frac{(\text{GVW} + \text{Rated Load})}{4 \text{ Tires}} + \text{Foot Print}$$

GVW = Gross Vehicle Weight

Overall Uniform Pressure

This pressure is of concern in conditions where the machine(s) is being used on a beam supported floor or surface. The machine's overall uniform pressure requires checking to ensure it does not exceed the maximum allowable pressure the floor can support. Maximum allowable pressure is determined by the architect or structural engineer, and therefore, cannot be exceeded for reasons of public safety.

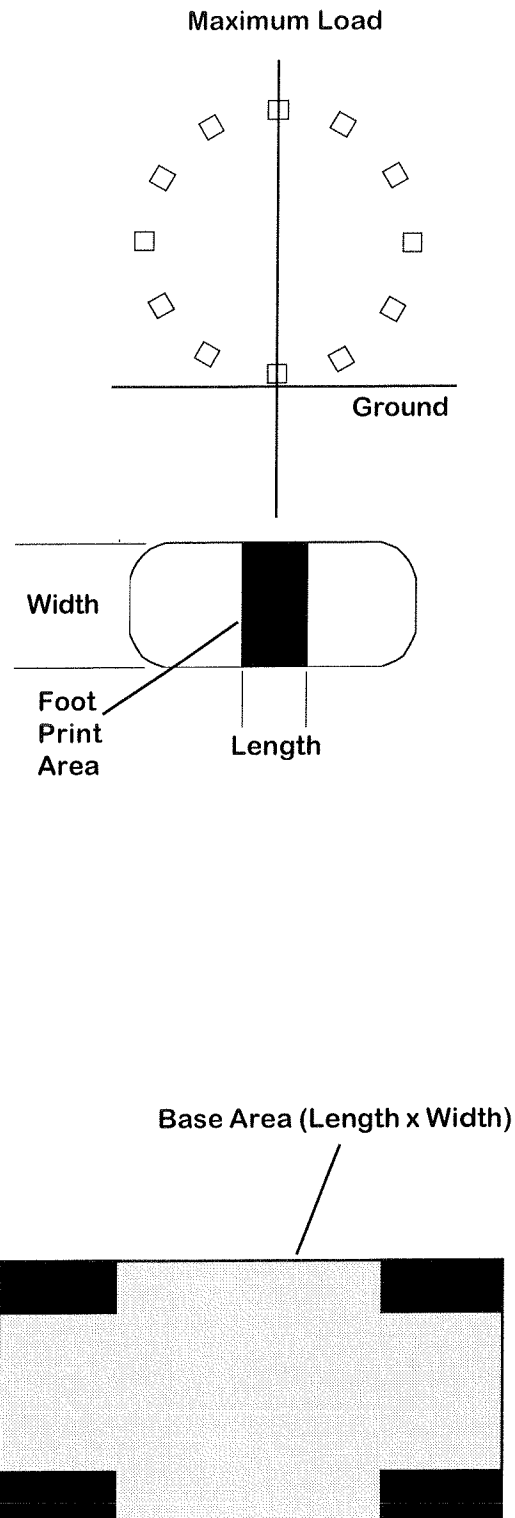
Overall Uniform Pressure is calculated based on:

1. Combined load of machines GVW plus rated load
2. Machine's base area. The base area is defined as the area of the base or the area drawn by lines to the outside of the tires as projected onto the ground; whichever is greater.

$$\text{PSI} = \frac{\text{GVW} + \text{Rated Load}}{\text{Base Area}}$$

GVW = Gross Vehicle Weight

$$\text{PSF} = \text{PSI} \times 144$$



Decal Replacement

Decals are installed in various locations on the machine. Each decal contains either a precautionary comment or helpful information for the user. If any decal listed is not legible or missing, the machine is considered not operational and must not be used until the decal is replaced. Decals can be obtained from your local MEC dealer.

<u>Quantity</u>	<u>Part Number</u>	<u>Description</u>
1	8911	Manual Case
1	7523	Caution Elec./Tip Hazard
1	7527	Caution
1	8767	Lock Warning
2	8969	Capacity
2	8619	Made In USA
2	6794	Maintenance Locks
1	8779	Charge Battery
1	8519	Tire Replacement
1	8635	Directions Joystick #2
1	8770	Control Box ID
2	7982	Safety Stripe
1	6556	Fork Pockets
1	7155	Control Box Placement
1	8945	Base Controls
1	8598	Emergency Down
1	-----	Serial Number Plate
2	8402	Rail Stripe
2	8816	MEC 1932ES
1	8950	Platform Stops Short
1	8811	MEC Oval
1	8520	Battery Replacement
1	6873	Hydraulic Fluid
1	7156	Front
1	8391	Control Box
1	8503	Keep Clear
1	8815	Moisture Warning
1	8599	Valve Instruction
1	9052	Battery Disconnect & Lockout

1932ES DECALS

7527

⚠ CAUTION

INSPECT MACHINE AND MAKE SURE THAT IT IS OPERATING PROPERLY. THAT ALL NAME PLATE AND HAZARD SIGNS 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:	OTHER HAZARDS
<ul style="list-style-type: none"> • 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 2%. • DO NOT DRIVE UP OR DOWN A GRADE OF OVER 25%. MACHINE MUST BE TOWED UP OR DOWN ANY GRADE EXCEEDING 25%. 	<ul style="list-style-type: none"> 1. DO NOT OVERLOAD. 2. DO NOT USE WITHOUT BATTING AND SHUT GATE IN PLACE. 3. DO NOT USE IF WORK PLATFORM IS NOT WORKING PROPERLY OR IF ANY PART IS DAMAGED OR WORN. 4. DO NOT USE NEAR MOVING VEHICLES OR CRANES. 5. DO NOT STAND OR SIT ON GUARDRAILS. 6. DO NOT USE MULES UNDER THE INFLUENCE OF ALCOHOL OR DRUGS. 7. DO NOT OVERRIDE SAFETY DEVICES. 8. DO NOT LEAVE MACHINE UNATTENDED WITH KEY IN THE SWITCH. 9. DO NOT RAISE PLATFORM WHILE MACHINE IS ON A TRUCK, FORK LIFT, OR OTHER DEVICE OR VEHICLE. 10. DO NOT USE LADDERS, SCAFFOLDING, OR OTHER DEVICES TO INCREASE SIZE OR REACHING HEIGHT OF PLATFORM. 11. DO NOT ENTER OR EXIT PLATFORM WHILE IN MOTION.

FOR DRIVING WITH PLATFORM ELEVATED: • DRIVE ONLY IN 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.

IMPROPER OPERATION OF THIS MACHINE MAY CAUSE DEATH OR SERIOUS INJURY. MACHINE IDENTIFICATION NO. 7527

7523

⚠ DANGER



YOU MUST NOT OPERATE THIS MACHINE

TIP-OVER HAZARDS	ELECTRIFICATION HAZARD
<ul style="list-style-type: none"> • NEVER ALLOW ANY PERSON ON THE PLATFORM OF THIS MACHINE. • NEVER ALLOW COMPLETE BACKLAP OF THE SHIELD AND PLATFORM EXTENSION. NEVER ALLOW ANY PERSON ON THE PLATFORM OR EXTENSION WHEN THE SHIELD IS IN THE REAR POSITION. • NEVER ALLOW ANY PERSON ON THE PLATFORM OR EXTENSION WHEN THE SHIELD IS IN THE REAR POSITION. 	<ul style="list-style-type: none"> • NEVER ALLOW ANY PERSON ON THE PLATFORM OR EXTENSION WHEN THE SHIELD IS IN THE REAR POSITION. • NEVER ALLOW ANY PERSON ON THE PLATFORM OR EXTENSION WHEN THE SHIELD IS IN THE REAR POSITION.

DEATH OR SERIOUS INJURY WILL RESULT FROM CONTACT OR IMMEDIATE CLEARANCE. MACHINE IDENTIFICATION NO. 7523

8969

▲ MAXIMUM PLATFORM CAPACITY - EVENLY DISTRIBUTED

EXTENSION RETRACTED	EXTENSION EXTENDED
<p>500 LBS 227 KGS</p>  <p>2-PERSONS</p>	<p>250 LBS 113 KGS 250 LBS 113 KGS</p>  <p>1-PERSON</p>

8767

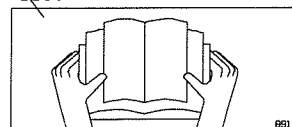
⚠ WARNING

- PLATFORM EXTENSION MUST BE LOCKED IN PLACE AT ALL TIMES.
- SHEET LOADING GATE MUST BE IN LOWERED LOCKED POSITION BEFORE OPERATING FROM PLATFORM.
- ENTRANCE GATE/CHAIN MUST BE IN CLOSED POSITION BEFORE OPERATING FROM PLATFORM.

FAILURE TO FOLLOW INSTRUCTIONS COULD CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE. MACHINE IDENTIFICATION NO. 8767

8619

8911



6556

↓ FORK LIFT POCKETS ↓

8598 ON TOP OF PIVOT TUBE, WITH SCISSORS CLOSED

EMERGENCY DOWN PROCEDURE

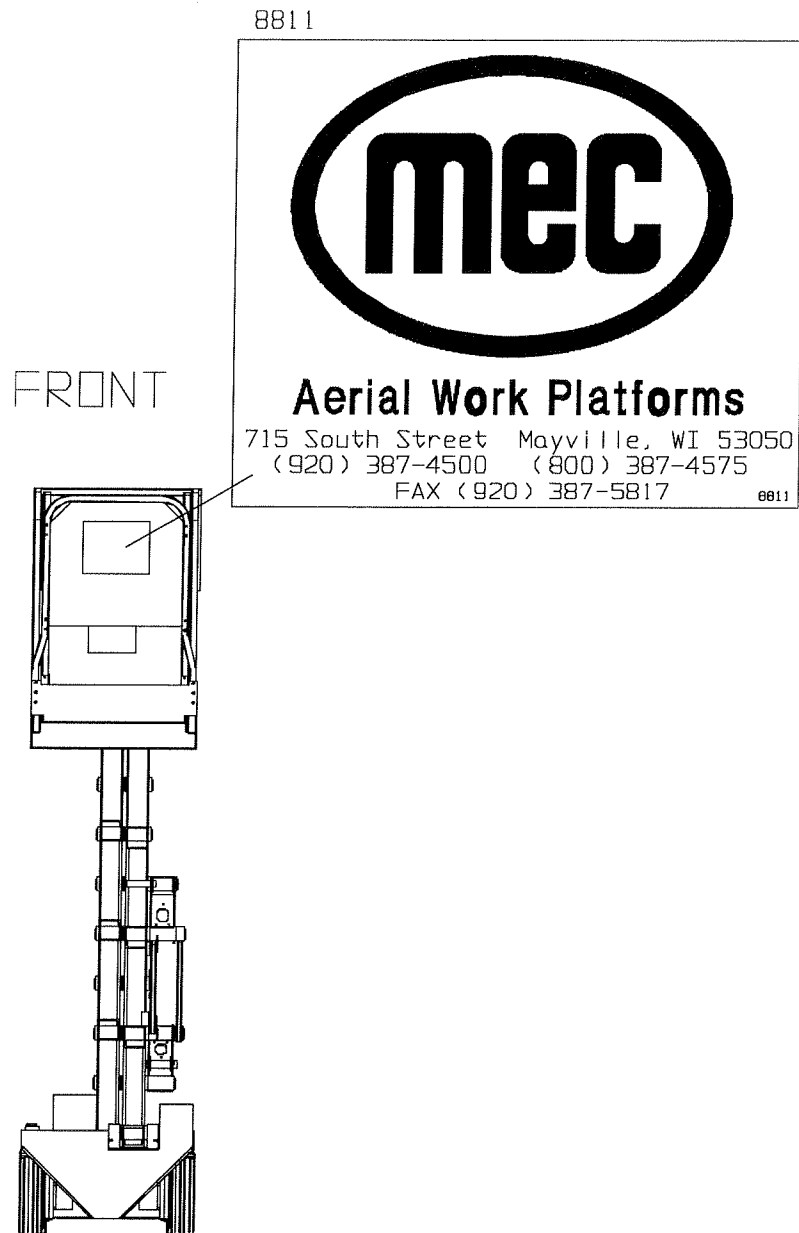
- LOCK OPEN VALVE ON LIFT CYLINDER ABOVE.
- PULL MANUAL ACTIVATOR BELOW TO LOWER PLATFORM.
- TO RETURN TO NORMAL OPERATION RESET LIFT CYLINDER VALVE.

8598

REAR

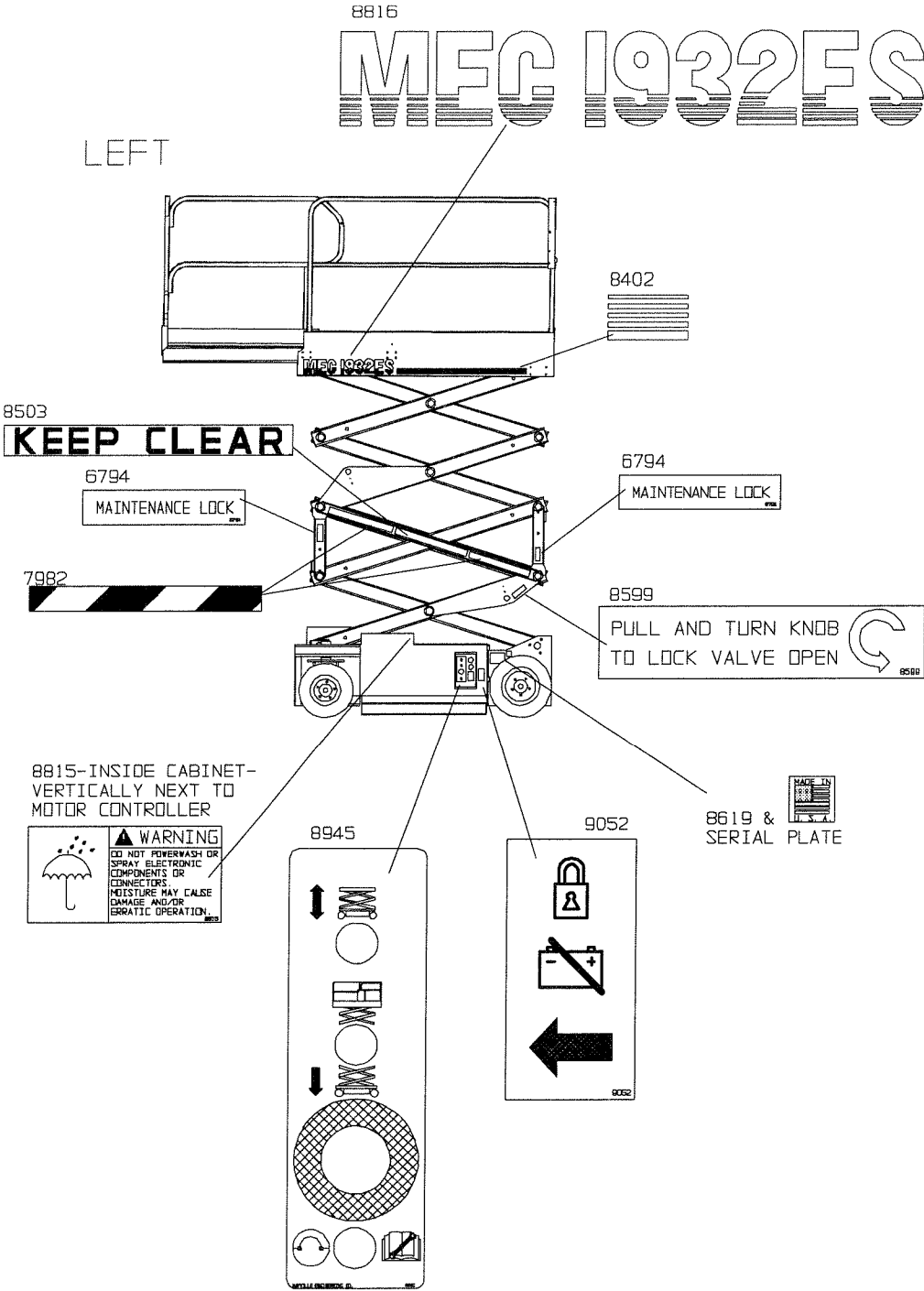
1932ES DECALS

1932ES DECALS



1932ES DECALS

1932ES DECALS

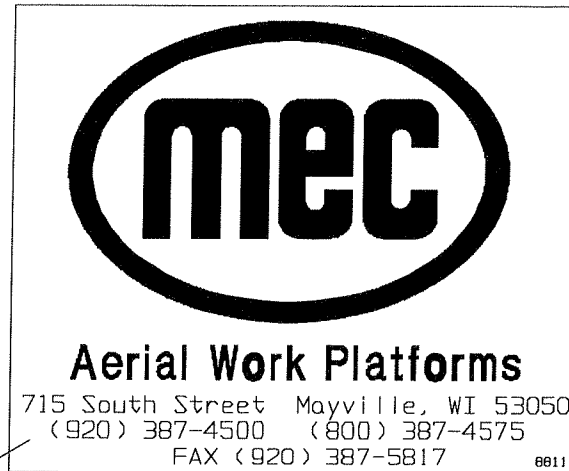
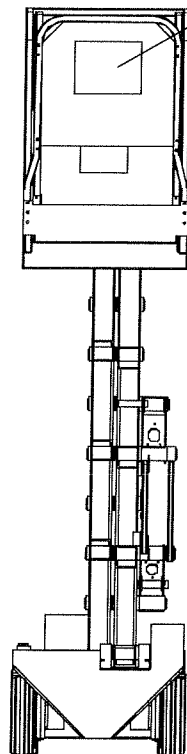


1932ES DECALS

1932ES DECALS

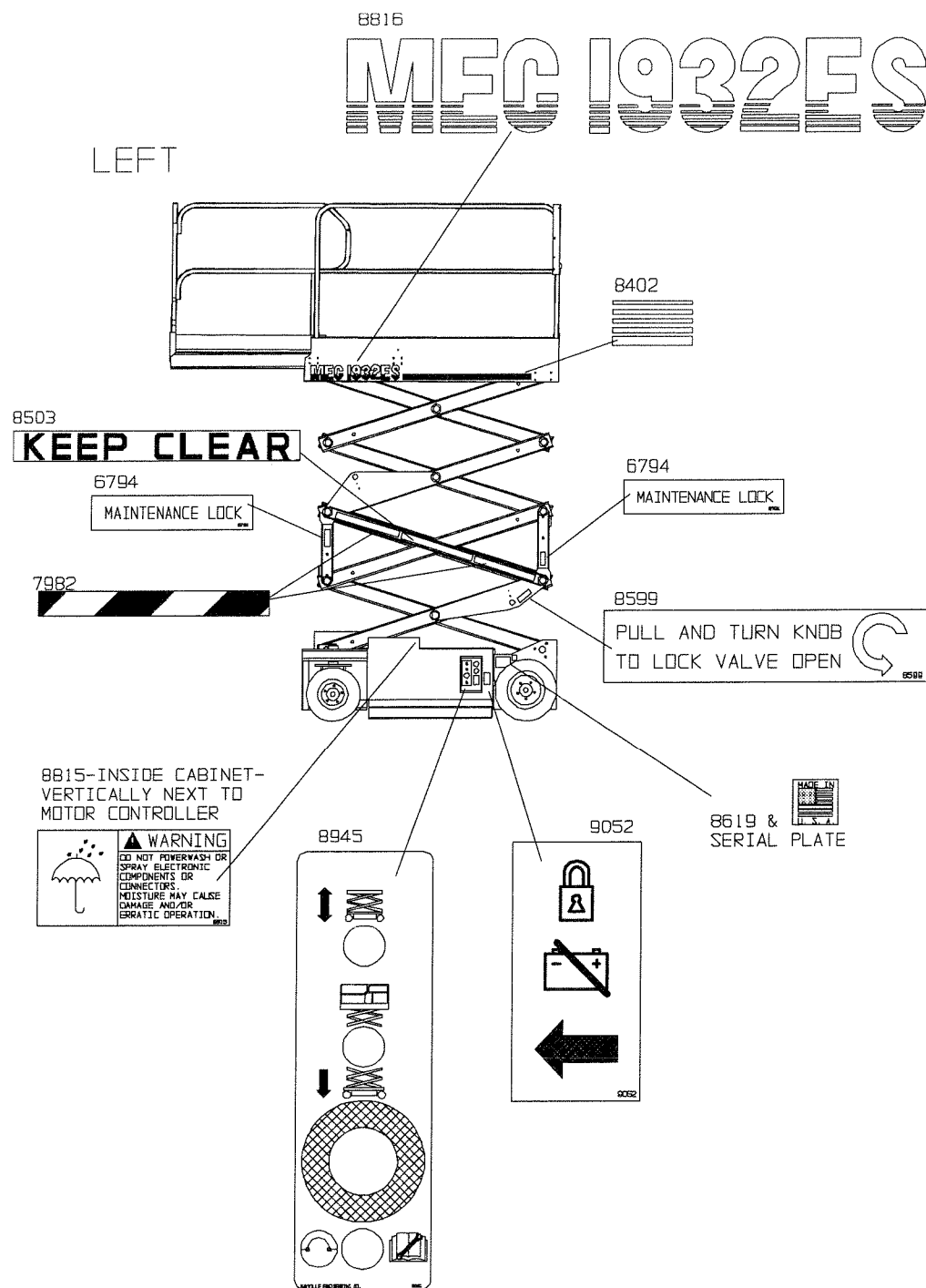
8811

FRONT



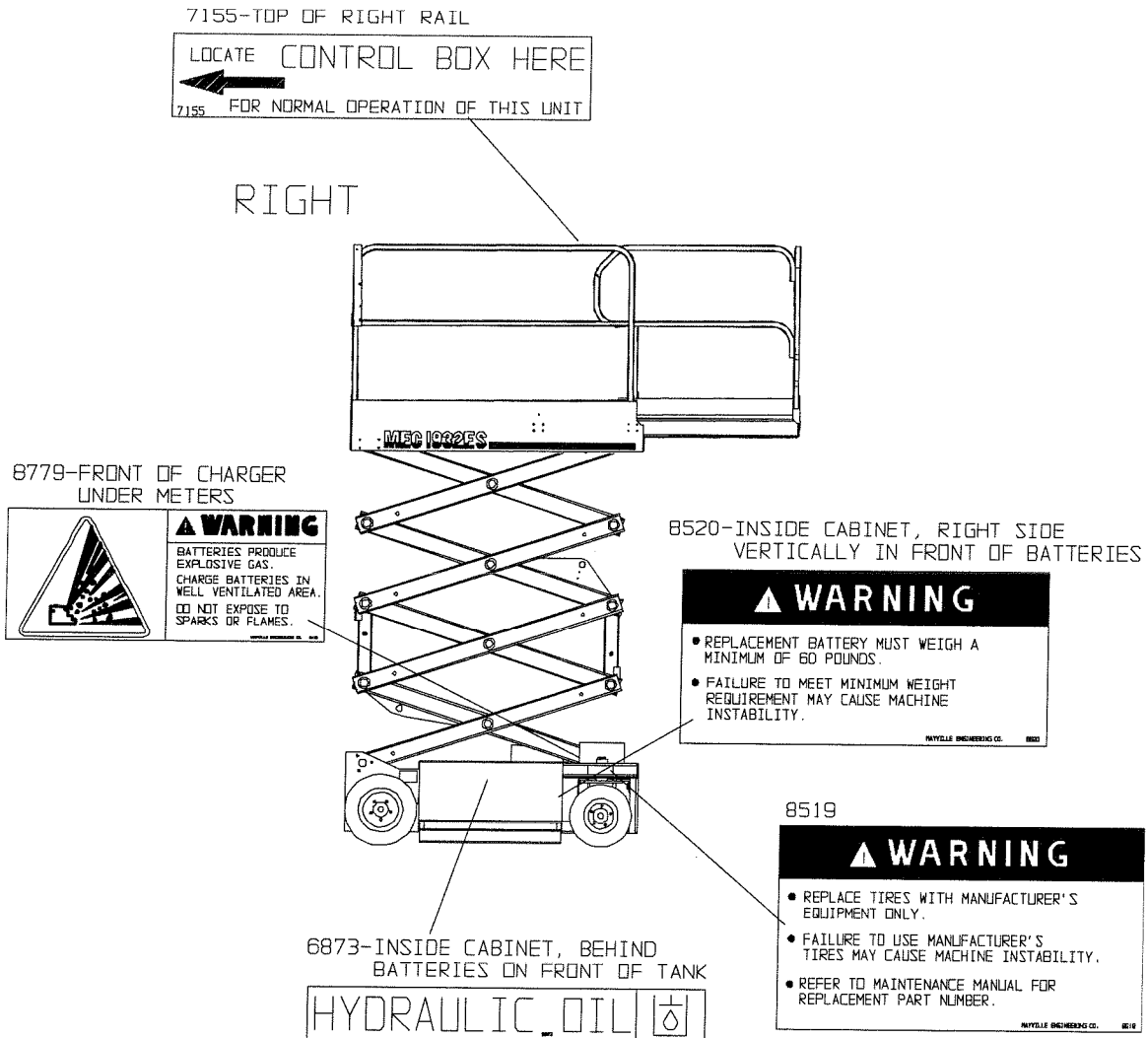
1932ES DECALS

1932ES DECALS



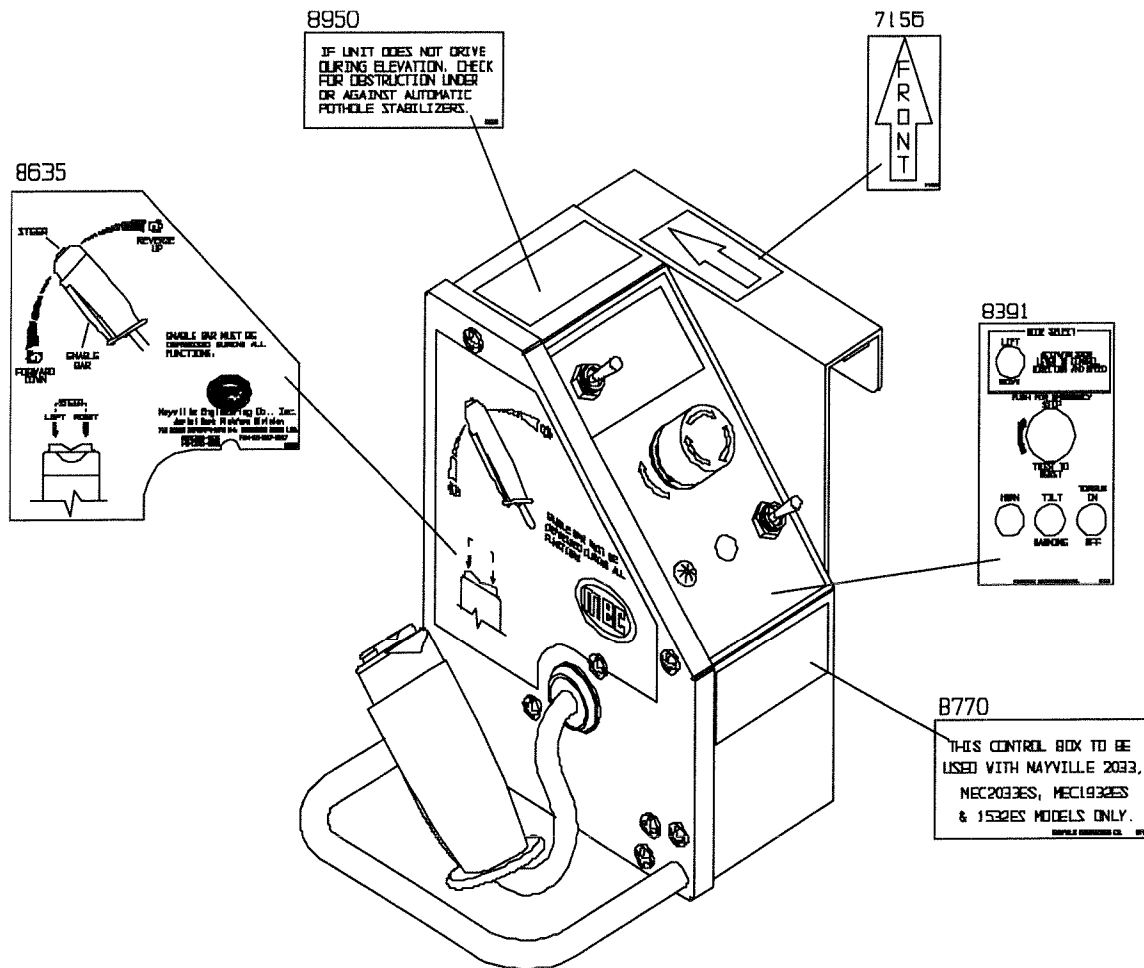
1932ES DECALS

1932ES DECALS



1932ES DECALS

1932ES DECALS



1932ES DECALS

1532ES DECALS

Decal Replacement

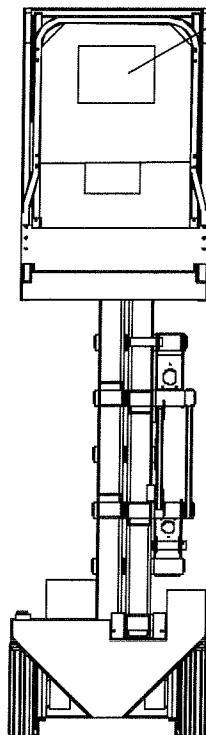
Decals are installed in various locations on the machine. Each decal contains either a precautionary comment or helpful information for the user. If any decal listed is not legible or missing, the machine is considered not operational and must not be used until the decal is replaced. Decals can be obtained from your local MEC dealer.

<u>Quantity</u>	<u>Part Number</u>	<u>Description</u>
1	8911	Manual Case
1	7523	Caution Elec./Tip Hazard
1	7527	Caution
1	8767	Lock Warning
2	9137	Capacity
2	8619	Made In USA
2	6794	Maintenance Locks
1	8779	Charge Battery
1	8519	Tire Replacement
1	8635	Directions Joystick #2
1	8770	Control Box ID
2	7982	Safety Stripe
1	6556	Fork Pockets
1	7155	Control Box Placement
1	8945	Base Controls
1	8598	Emergency Down
1	-----	Serial Number Plate
2	8402	Rail Stripe
2	9138	MEC 1532ES
1	8950	Platform Stops Short
1	8811	MEC Oval
1	8520	Battery Replacement
1	6873	Hydraulic Fluid
1	7156	Front
1	8391	Control Box
1	8503	Keep Clear
1	8815	Moisture Warning
1	8599	Valve Instruction
1	9052	Battery Disconnect & Lockout

1532ES DECALS

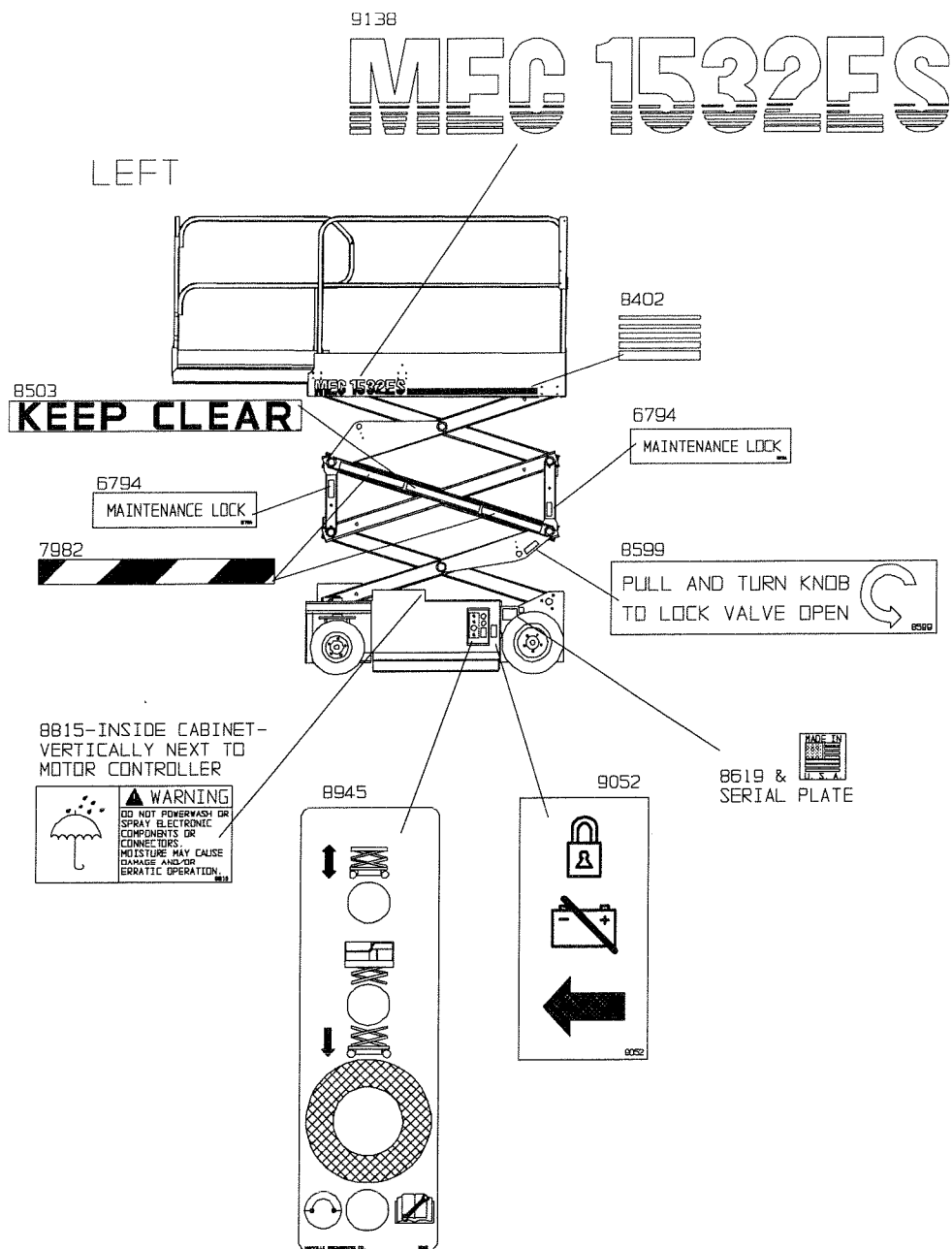
8811

FRONT



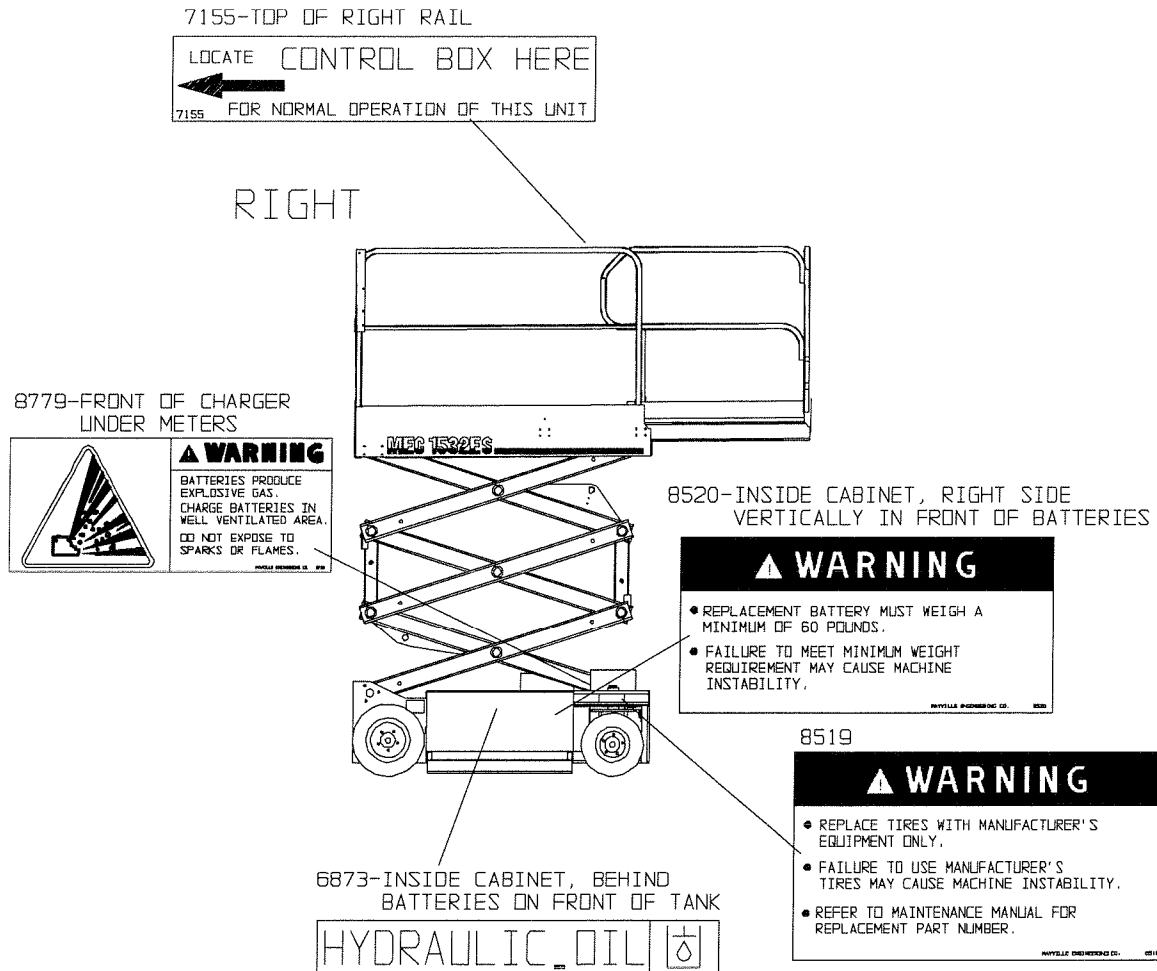
1532ES DECALS

1532ES DECALS



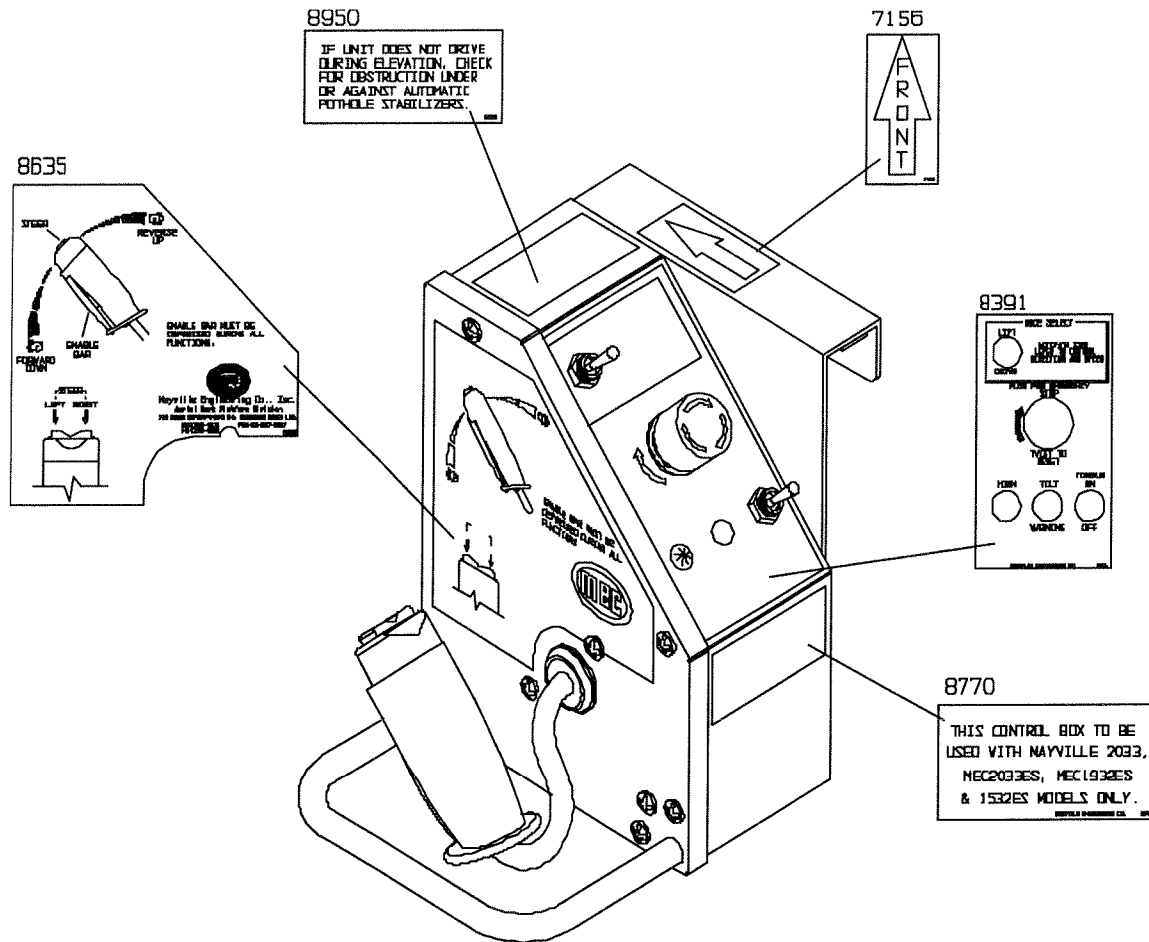
1532ES DECALS

1532ES DECALS



1532ES DECALS

1532ES DECALS



1532ES DECALS

CHECKLISTS

Frequent Inspection Checklist

Some of the components may or may not affect your particular machine. Check all that apply.

Legible,
Operational
and/or
Physically
Correct

Not Legible,
Operational
and/or
Physically
Correct

Corrected
or Repairs
Made to
Unit

Wheels Rims - Corrosion, Cracks, Bends etc.			
Tires Excessive Wear/Damage Tire Pressure			
Battery Check Wiring Check Fluid Level Inspect Commutator and Brushes			
Hydraulics Check Hoses Check Fittings Replace Oil Filter			
Scissors Check for Damage ie: Corrosion, cracks, Bends etc. Maintenance Locks			
Drive and Lift Mechanism Oil Steering Pivot Pins Oil Brake Pivot Pins Grease Rear Spindles			
Main Frame Check Structure ie: corrosion, cracks, bends etc. Check Pivot Pins Check All Fasteners			
Control System Damage to Switches, Indicators and Guards Check Terminals and Plugs Check Cords			
Safety Decals Decals in Place and Legible			

CHECKLISTS

Frequent Inspection Checklist Cont'd

	Legible, Operational and/or Physically Correct	Not Legible, Operational and/or Physically Correct	Corrected or Repairs Made to Unit
Platform			
Rear Closure			
Railing Secure in Pockets			
All Fasteners Secure			
Railings Not Bent			
Proper Written Materials in Case			
Fuel System			
Check for Leaks (LPG or Gasoline)			
Check Hoses			
Functions			
Base/Upper Control Box			
Steer: Left/Right			
Drive: Forward/Reverse			
Hi Torque/High Speed			
Fast Speed Cut Out When Platform is Elevated			
Emergency Down			
Platform Raises to Full Extension			
Brakes Operational			
Emergency Stop			
Pothole System Operational			

Comments:

Signature/Inspectors

Date:

Reproduce Form as Needed. Save completed forms for future reference.

CHECKLISTS

Alterations/Repairs Record

Signature

Date

Model:

Performed By:

Repair/Alteration Date:

Approved By:

Part Numbers Included:

--

Description Of Repair/Alteration:

--

Results/Conclusions

--

Reproduce Form As Needed. Save Completed Forms For Future Reference.

CHECKLISTS

Examination/Test Record

Signature

Date

Model:

Performed By:

Examination/Test Date:

Approved By:

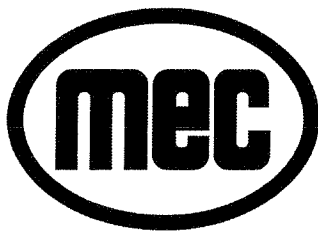
Description Of Examination/Test:

--

Results/Conclusions

--

Reproduce Form As Needed. Save Completed Forms For Future Reference.



Aerial Work Platforms

Mayville Engineering Company, Inc.

An Employee Owned Company

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

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

E-mail: awp@mayvl.com • Web: www.mayvl.com