

**OPERATING MANUAL (AS)** 

# **ROUGH TERRAIN SCISSORS**

MODEL SJ6832 RTE



#### This manual is based on Serial Number(s):

SJ6832 RTE 37 300 175 & Above

Please refer to the website (www.skyjack.com) for older Serial Numbers.

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The Safety Alert Symbol identifies important safety messages on MEWP, safety signs in manuals or elsewhere. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety message.



This Safety Alert Symbol means attention!

Become alert! Your safety is involved.



DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



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.

#### **IMPORTANT**

IMPORTANT indicates a procedure essential for safe operation and which, if not followed, may result in a malfunction or damage to the MEWP.



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**SKYJACK** is continuously improving and expanding product features on its equipment, therefore, specifications and dimensions are subject to change without notice.

#### Mobile Elevating Work Platform (MEWP) Definition

A mobile device that has a positionable platform supported from ground level by a structure.

#### **Purpose of Equipment**

The SKYJACK Rough Terrain Compact Electric Series MEWP is designed to transport and raise personnel, tools and materials to overhead work areas.

#### **Use of Equipment**

The MEWP is a highly maneuverable, mobile work station. Work platform elevation and elevated driving must only be done on a firm, level surface. It can be driven over uneven terrain only when the platform is fully lowered.

#### Manual

The operating manual is considered a fundamental part of the MEWP. It is a very important way to communicate necessary safety information to users and operators. A complete and legible copy of this manual must be kept in the provided weather-resistant storage compartment on the MEWP at all times.

#### Operator

The operator must read and completely understand both this operating manual and the safety panel label located on the platform and all other warnings in this manual and on the MEWP. Compare the labels on the MEWP with the labels found within this manual. If any labels are damaged or missing, replace them immediately.

#### **Service Policy and Warranty**

SKYJACK warrants each new SJRT Compact Electric Series MEWP to be free of defective parts and workmanship for the first 24 months. Any defective part will be replaced or repaired by your local SKYJACK dealer at no charge for parts or labor. Contact the SKYJACK Service Department for warranty statement extensions or exclusions.

#### **Optional Accessories**

The SKYJACK MEWP is designed to accept a variety of optional accessories. These are listed under "Standard and Optional Features" in Table 4.1. Operating instructions for these options (if equipped) are located in Section 3 of this manual.

For non-standard components or systems, contact the SKYJACK Service Department at

Include the model and serial number for each applicable MEWP.

#### Scope of this Manual

- a. This MEWP meets requirements of the Guideline published by the National Regulators' Committee on High Risk Plant dated 27 May 2010.
- b. Operators are required to conform to national, state or territorial/provincial and local health and safety regulations applicable to the operation of this MEWP.





Failure to comply with your required responsibilities in the use and operation of the MEWP could result in death or serious injury!

#### **Operator Safety Reminders**

A study conducted by St. Paul Travelers showed that most accidents are caused by the failure of the operator to follow simple and fundamental safety rules and precautions.

You, as a careful operator, are the best insurance against an accident. Therefore, proper usage of this MEWP is mandatory. The following pages of this manual should be read and understood completely before operating the MEWP.

Common sense dictates the use of protective clothing when working on or near machinery. Use appropriate safety devices to protect your eyes, ears, hands, feet and body.

Any modifications from the original design are strictly forbidden without written permission from SKYJACK.

#### **Electrocution Hazard**

This MEWP is not electrically insulated. Maintain a Minimum Safe Approach Distance (MSAD) from energized power lines and parts as listed below. The operator must allow for the platform to sway, rock or sag. This MEWP does not provide protection from contact with or proximity to an electrically charged conductor.

DO NOT USE THE MEWP AS A GROUND FOR WELDING.

DO NOT OPERATE THE MEWP DURING LIGHTNING OR STORMS.

DO NOT OPERATE THE MEWP NEAR POWER LINES. MAINTAIN A MINIMUM SAFE APPROACH DISTANCE (MSAD) FROM ENERGIZED POWER LINES.



DANGER Avoid Power Lines			
Minimum Safe Approach Distance AS 2550.10-2006 Requirements			
voltage Range (Fhase to Phase)	Without Spotter	With Spotter	
Up to and including 133KV	6.4	3	
Greater than 133KV	10	8	
FAILURE TO AVOID THIS HAZARD WILL RESULT IN DEATH OR SERIOUS INJURY!			

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#### **Safety Precautions**

Know and understand the safety precautions before going on to next section.



#### **WARNING**

Failure to heed the following safety precautions could result in tip over, falling, crushing, or other hazards leading to death or serious injury.

- KNOW all national, state/provincial and local rules which apply to your MEWP and jobsite.
- TURN main power disconnect switch "O" off when leaving the MEWP unattended. Remove the key to prevent unauthorized use of the MEWP.
- WEAR all the protective clothing and personal safety devices issued to you or called for by job conditions.
- DO NOT wear loose clothing, dangling neckties, scarves, rings, wristwatches or other jewelry while operating this MEWP.



 AVOID entanglement with ropes, cords or hoses.



 AVOID falling. Stay within the boundaries of the guardrails.



 DO NOT raise the MEWP or operate elevated in windy or gusty conditions that exceed the limits specified in Section 4, Table 4.4.



 DO NOT increase the lateral surface area of the platform. Increasing the area exposed to the wind will decrease MEWP stability. Avoid tenting.



- DO NOT elevate the MEWP if it is not on a firm, level surface.
- DO NOT drive elevated near depressions or holes of any type,loading docks, debris, drop-offs or surfaces that may affect the stability of the MEWP.



• IF OPERATION IN AREAS WITH HOLES OR DROP-OFFS IS ABSOLUTELY NECESSARY, elevated driving shall not be allowed. Position the MEWP horizontally only with the platform fully-lowered. After ensuring that all 4 wheels or outriggers (if equipped) have contact with a firm, level surface, the MEWP can be elevated. After elevation, the drive function must not be activated.



 DO NOT elevate or drive elevated on a slope. Elevated driving must be done on a firm, level surface.



 DO NOT ascend or descend a grade when elevated. When fully lowered, ascending or descending, only grades up to rated maximum listed in Table 4.2 are permissible.





#### **Safety Precautions (Continued)**

Know and understand the safety precautions before going on to next section.

- · DO NOT operate on surfaces not capable of holding the weight of the MEWP including the rated load, e.g. covers, drains, and trenches.
- **DO NOT** drive elevated on a soft or uneven surface.



**DO NOT** operate an MEWP that has ladders, scaffolding or other devices mounted on it to increase its size or work height. It is prohibited.



NOT exert horizontal (manual) force on MEWP that exceeds the limits specified in Table 4.4.



DO NOT use the MEWP as a crane. It is prohibited.



**DO NOT** sit, stand or climb on the guardrails. It is prohibited.



DO NOT climb on scissor arm assembly. It is prohibited.



**AVOID** overhead obstructions. overhead aware of obstructions or other possible hazards around MEWP when lifting or driving.



**DO NOT** raise the MEWP while the MEWP is on a truck, fork lift or other device or vehicle.



**AVOID** crushing hazards. Be aware of crushing hazards when lifting or driving. Keep all body parts inside the MEWP.



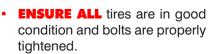
**DO NOT** lower the platform unless the area below is clear of personnel and obstructions.



**ENSURE** that there are no personnel or obstructions in the path of travel, including blind spots.



**BE AWARE** of blind spots when operating the MEWP.





**DO NOT** use with improperly inflated/damaged tires wheels. Refer to Section 2: Wheel/Tire Assembly.





#### **Safety Precautions (Continued)**

Know and understand the safety precautions before going on to next section.

 DO NOT exceed the rated capacity of the MEWP.



 DO NOT leave MEWP unattended with key in key switch.



 DO NOT distribute load unevenly.



 DO NOT use under influence of alcohol or drugs.



 DO NOT alter or disable limit switches or other safety devices.



· DO NO

the platform.



**DO NOT** attempt to free a snagged platform with lower controls until personnel are removed from

 DO NOT use the MEWP without guardrails, locking pins and the entry gate/chain/bar in place.



 DO NOT place materials on the guardrails or materials that exceed the confines of the guardrails unless approved by Skyjack.



 DO NOT operate if MEWP is not working properly or if any parts are damaged or worn.



#### **Safety Precautions (Continued)**

Know and understand the safety precautions before going on to next section.



#### **WARNING**

Entering and exiting the MEWP should only be done using the three points of contact.

- · Use only equipped access openings.
- Enter and exit only when the MEWP is in the fully retracted position.
- Do use three points of contact to enter and exit the platform. Enter and exit the platform from the ground only. Face the MEWP when entering or exiting the platform.
- Three points of contact means that two hands and one foot or one hand and two feet are in contact with the MEWP or the ground at all times during entering and exiting.



#### WARNING

An operator should not use any MEWP that:

- does not appear to be working properly.
- has been damaged or appears to have worn or missing parts.
- has alterations or modifications not approved by the manufacturer.
- has safety devices which have been altered or disabled.
- has been tagged or locked out for non-use or repair.

Failure to avoid these hazards could result in death or serious injury.

#### **Jobsite Inspection**

- · Do not use in hazardous locations.
- Perform a thorough jobsite inspection prior to operating the MEWP, to identify potential hazards in your work area.
- Be aware of moving equipment in the area. Take appropriate actions to avoid collision.

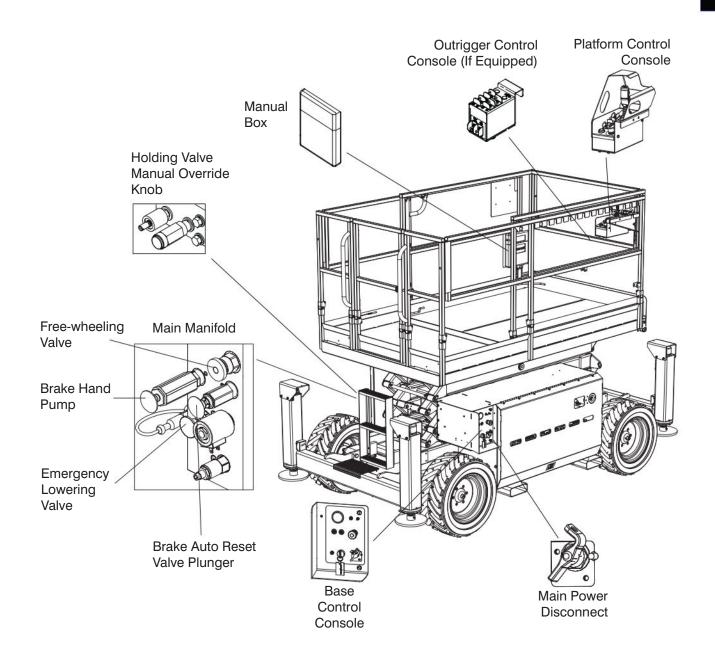
#### 2.1 Familiarization of SJ68RTE Series



MEWP Familiarization should be given only to individuals who are COMPETENT and TRAINED to operate an MEWP.

Do not operate this MEWP without proper authorization and training. Failure to avoid this hazard could result in death or serious injury.

It is the responsibility of the operator to read, completely understand and follow all instructions and warnings contained in this operating manual and on the MEWP.



#### 2.2 Component Identification

The following descriptions are for identification, explanation and locating purposes only.

#### 2.2-1 Motion Alarm

The alarm produces an audible sound when any control function is selected. On MEWPs with certain options, a flashing amber light will accompany this alarm.

#### 2.2-2 Tilt Alarm

The MEWP is equipped with a device which senses when the MEWP is out of level in any direction. When activated, it disables drive and lift functions of the MEWP and an alarm produces an audible sound accompanied by the amber light. If the alarm sounds, lower the platform completely, then reposition MEWP so that it is level before raising the platform.

#### NOTE

If the tilt alarm sounds and the platform does not, or only partially raises, immediately lower the platform completely and ensure that the MEWP is on a firm, level surface.

#### 2.2-3 Brake System

The brake system is located on the main manifold in the motor/hydraulic compartment. The brakes must be manually disengaged before pushing, winching or towing. Refer to Section 2.5-2 for procedure on how to release the brakes manually. The system contains the following controls:

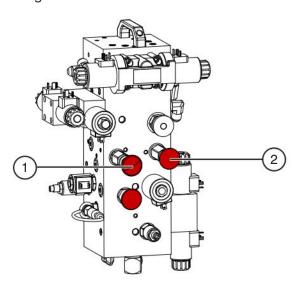


Figure 2-1. Brake System

- 1. Brake hand pump
- 2. Brake auto reset valve plunger

#### 2.2-4 Load Sensing System

This system is a safety device that prevents any normal movement of the MEWP from a stationary working condition after the rated load is reached and exceeded. Refer to Table 4.4 for maximum platform capacities.

- When 90% of the rated load is reached:
   The red power indicator light on the platform control console flashes.
- When the rated load is reached:
   An audible alarm sounds for approximately 2 seconds, 5 times per minute.
- When the rated load is exceeded: The flashing light and audible alarm continue and all electrically controlled MEWP movement functions stop. To resume normal operation, remove the overload from the platform.
- contact with an overhead obstruction:
  The platform could become overloaded and all functions would stop. Release of the platform from this situation can only be effected by use of the emergency lowering system. Refer to Section 2.6.

If the MEWP during the operation comes in

#### NOTE

After reaching full extension and upon lowering, the MEWP could stop and take an overload reading. Return the proportional controller to the neutral center position, and release the enable trigger switch. If the MEWP is overloaded, the flashing light and audible alarm continue and all electrically controlled MEWP movement functions stop. To resume normal operation, remove the overload from the platform.



#### 2.2-5 Emergency Lowering System

The emergency lowering system allows platform lowering in the event of an emergency or an electrical system failure. Refer to Section 2.6 for the emergency lowering procedure. The system contains the following controls:

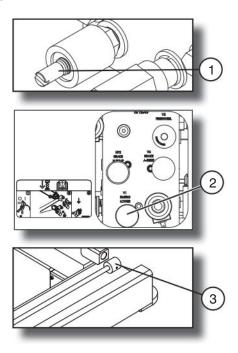


Figure 2-2. Emergency Lowering System

- Holding Valve Manual Override Knob Located on the holding valve at the bottom of each lift cylinder.
- 2. **Emergency Lowering Valve** Located at the motor/hydraulic compartment.
- 3. **Emergency Lowering Access Rod** Located at the right side of the base.

#### 2.2-6 Lowering Warning System

A lowering warning system automatically stops the lowering function before reaching the fully retracted position and sounds the alarm.

#### 2.2-7 Free-wheeling Valve

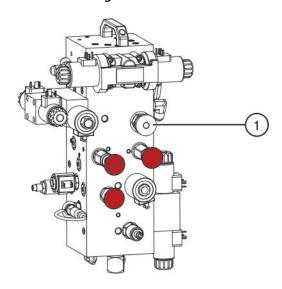


Figure 2-3. Free-wheeling Valve

 Free-wheeling Valve - The free-wheeling valve is located on the main manifold in the motor/ hydraulic compartment. Refer to Section 2.5-1 for procedure on how to release the free-wheeling valve.



#### 2.2-8 Base Control Console

The control console is located on the left side of the battery/electrical compartment. It contains the following controls:

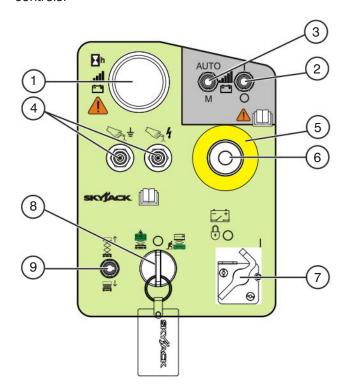


Figure 2-4. Base Control Console

- 1. **Hourmeter -** The display shows accumulated operating time, battery level and error codes. Refer to Service manual for error codes.
- Hybrid Power Pack (HPP) On/Off Switch (If Equipped): This switch allows the operator to turn on "I" or turn off "O" power to the HPP. Refer to Section 3.6-2 for operation.
- 3. Hybrid Power Pack (HPP) Automatic/Manual Switch (If Equipped): This switch allows the operator to activate "AUTO" or "M" (manual) mode. Refer to Section 3.6-2 for operation.
- Circuit Breakers In the event of a power overload or positive circuit grounding, the circuit breaker pops out. Push breaker back in to reset.
- 5. Emergency Stop Button This button "O", when depressed, disconnects power to control circuit.

- 6. Power Indicator Light When the emergency stop button on the base control console and on the platform control console are both pulled out, this light glows.
- 7. Main Power Disconnect Switch This switch, when in "O" off position, disconnects power to all circuits. Switch must be in "I" on position to operate any circuit. Turn switch "O" off when transporting MEWP.
- 8. Platform/Off/Base Key Switch This three-way selector switch allows the operator to activate either the "\*\* base or " " platform controls.
- 9. Platform Raise/Lower Switch This switch controls "\$\overline{\sigma}\" raising or "\$\overline{\sigma}\" lowering of platform.



#### 2.2-9 Platform Control Console

This removable control console is mounted at the right front of the platform. It contains the following controls:

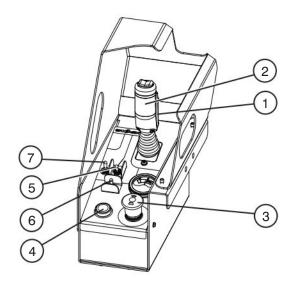
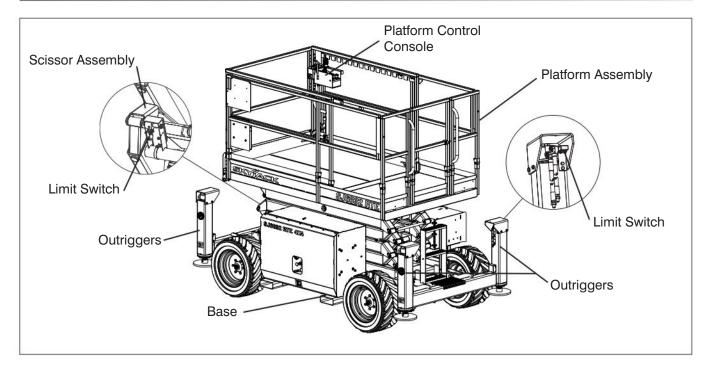


Figure 2-5. Platform Control Console

- 1. Lift/Drive/Steer Enable Trigger Switch This momentary "Switch energizes the controller. It must be held depressed continuously while engaging either the lift/drive or steer functions.
- Lift/Drive/Steer Controller This one-hand lever controls lift/drive and steer motions. Internal springs return it to neutral when controller is released.
- 3. Emergency Stop Button/Operation Light This button "O", when depressed, disconnects power to the control circuit. The operation light indicates upper control availability. It glows when both emergency stop buttons on the platform control console and the base control console are pulled out.

- 4. **Horn Push Button** This "push button sounds an automotive-type horn.
- 5. Inclined Drive/Level Drive Switch This switch selects "inclined drive (low speed/high torque) or "I level drive (high speed/low torque).
- 6. **Lift/Drive Switch** Selecting "Lift position energizes the lift circuit. Selecting "Lift" drive position energizes the drive circuit.
- 7. Hybrid Power Pack (HPP) On/Off Switch (If Equipped) This switch allows the operator to start "|" or turn off "\(\circ\)" the HPP. Refer to Section 3.6-2 for operation.





#### 2.3 Visual & Daily Maintenance Inspections

Begin the visual and daily maintenance inspections by checking each item in sequence for the conditions listed in this section.



To avoid injury, do not operate an MEWP until all malfunctions have been corrected.



#### WARNING

To avoid possible injury, ensure MEWP power is off during your visual and daily maintenance inspections.



#### **CAUTION**

Ensure MEWP is on a firm, level surface.

#### NOTE

While doing visual and daily inspections in different areas, be aware to also inspect limit switches, electrical and hydraulic components.

#### 2.3-1 Labels

Refer to Section 5 - Labels in this manual and determine that all labels are in place and are legible.

#### 2.3-2 Electrical

Maintaining the electrical components is essential to good performance and service life of the MEWP.

Inspect the following areas for chafed, corroded and loose wires:

- base to platform cables and wiring harness
- battery/electrical compartment
- hydraulic/electrical wiring harnesses

#### 2.3-3 Limit Switches

Ensure limit switches are properly secured with no signs of visible damage and movement is not obstructed.

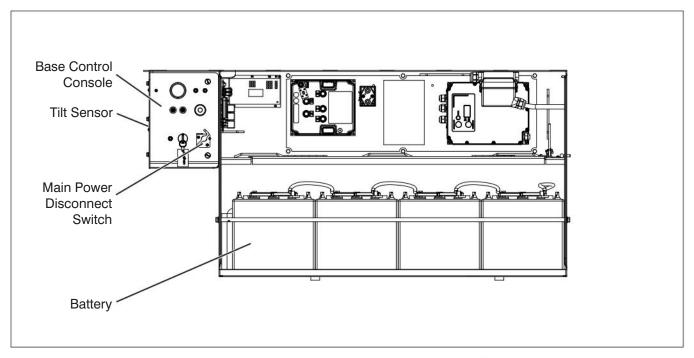
#### 2.3-4 Hydraulic

Maintaining the hydraulic components is essential to good performance and service life of the MEWP.

Perform a visual inspection around the following areas:

- hydraulic tank filter, fittings, hoses, emergency power unit (if equipped) and base surfaces
- battery/electrical compartment fittings, hoses, main pump, and filter
- all hydraulic cylinders
- all hydraulic manifolds
- the underside of the base
- ground area under the MEWP
- hydraulic outriggers (if equipped)





#### 2.3-5 Battery/Electrical Compartment

- Ensure compartment latch is secure and in proper working order.

#### Main Power Disconnect Switch

- Turn main power disconnect switch to "
  O" off position.
- Ensure all cables are secure and switch is in proper working condition.

#### Base Control Switches

 Ensure there are no signs of visible damage and all switches are in their neutral positions.

#### Load/Tilt Sensor

- Ensure load/tilt sensor is properly secure and there is no visible damage.

#### Battery

Proper battery condition is essential to good performance and operational safety. Improper fluid levels or damaged cables and connections can result in component damage and hazardous conditions.



WARNING

Explosion hazard. Keep flames and sparks away. Do not smoke near batteries.





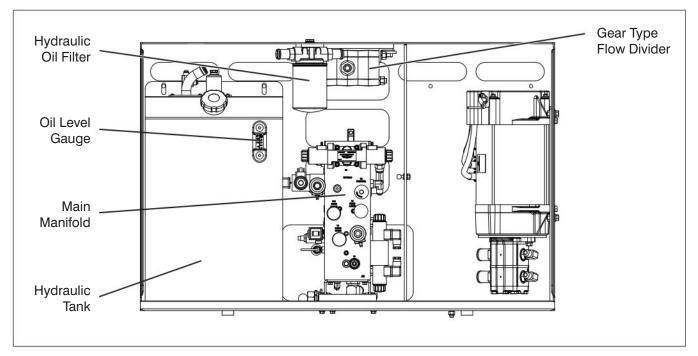
Battery acid is extremely corrosive - Wear proper eye and facial protection as well as appropriate protective clothing. If contact occurs, immediately flush with cold water and seek medical attention.

- 1. Check battery case for damage.
- Clean battery terminals and cable ends thoroughly with a terminal cleaning tool or wire brush.
- 3. Ensure all battery connections are tight.
- If applicable, check battery fluid level. If plates are not covered by at least 1/2" (13 mm) of solution, add distilled or demineralized water.
- 5. Replace battery if damaged or incapable of holding a lasting charge.



Use original or manufacturer-approved parts and components for the MEWP.





#### Hydraulic Pump

- Ensure there are no loose or missing parts and there is no visible damage.
- Ensure all bolts are properly tightened.
- Ensure all fittings and hoses are properly tightened and there is no evidence of hydraulic leakage.

#### 2.3-6 Motor/Hydraulic Compartment

- Ensure compartment latch is secure and in proper working order.

#### Hydraulic Tank

- Ensure hydraulic filler cap is secure.
- Ensure tank shows no visible damage and no evidence of hydraulic leakage.

#### Hydraulic Oil

- Ensure platform is fully lowered, and then visually inspect the sight gauge located on the side of the hydraulic oil tank.
- The hydraulic oil level should be at or slightly above the top mark of the sight glass.

#### • Hydraulic Return Filter

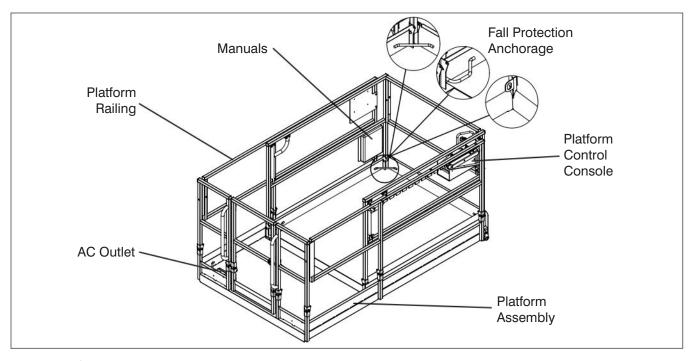
- Ensure filter element is secure.
- Ensure there are no signs of leakage or visible damage.

#### Main Manifold

- Ensure all fittings and hoses are properly tightened and there is no evidence of hydraulic leakage.
- Ensure there are no loose wires or missing fasteners.
- Restore to original position.

#### Gear Type Flow Divider

 Ensure there are no loose or missing parts and there is no visible damage.



#### 2.3-7 Platform Assembly



Ensure that you maintain three points of contact to mount/dismount platform.

- 1. Use the ladder of MEWP to platform.
- 2. Close the gate.
  - Ensure there are no loose or missing parts and there is no visible damage.
  - Ensure all fasteners are securely in place.
  - Ensure all railings are properly positioned and secured.
  - Ensure gate is in good working order.

#### Fall Protection Anchorage(s)

- Ensure anchorage(s) are secure and there is no visible damage.

#### AC Outlet on Platform

- Ensure outlet has no visible damage and free from dirt or obstructions.

#### Manuals

Ensure a copy of operating manual is enclosed in manual storage box.

- Check to be sure manual storage box is present and in good condition.
- Ensure manuals are legible and in good condition.
- Always return manuals to the manual storage box after use.

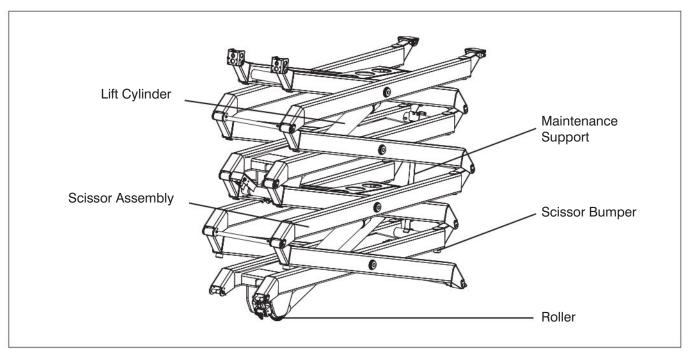
#### Platform Control Console

- Ensure all switches and controller are returned to neutral and are properly secured.
- Ensure there are no loose or missing parts and there is no visible damage.



Ensure that you maintain three points of contact to mount/dismount platform.

3. Use the ladder to dismount from platform.



#### 2.3-8 Lifting Mechanism

 Raise the platform (refer to Section 3.8-2) until there is adequate clearance to swing down the maintenance support (refer to Section 3.12).

#### Maintenance Support

- Ensure maintenance support is properly secured and shows no visible damage.

#### Scissor Assembly

- Ensure scissor assembly shows no visible damage and no signs of deformation in weldments.
- Ensure all pins are properly secured.
- Ensure cables and wires are properly routed and shows no signs of wear and/or physical damage.

#### Scissor Bumpers

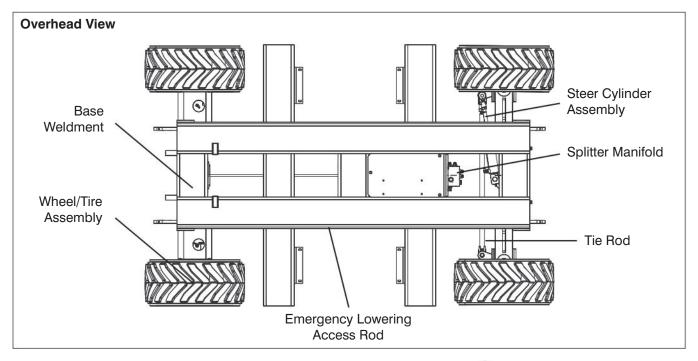
 Ensure bumpers are secure and shows no sign of visible damage.

#### Rollers

- Ensure rollers are secure and there is no visible damage.
- Ensure rollers' path of travel are free from dirt and obstructions.

#### Lift Cylinder(s)

- Ensure each lift cylinder is properly secured, there are no loose or missing parts and there is no evidence of damage.
- Ensure all fittings and hoses are properly tightened and there is no evidence of hydraulic leakage.
- 2. Raise the platform until there is adequate clearance to swing up the maintenance support into storage bracket. Refer to Section 3.12.
- 3. Fully lower the platform.



#### 2.3-9 Base

#### Base Weldment

 Ensure there are no visible cracks in welds or structure and there are no signs of deformation.

#### Wheel/Tire Assembly

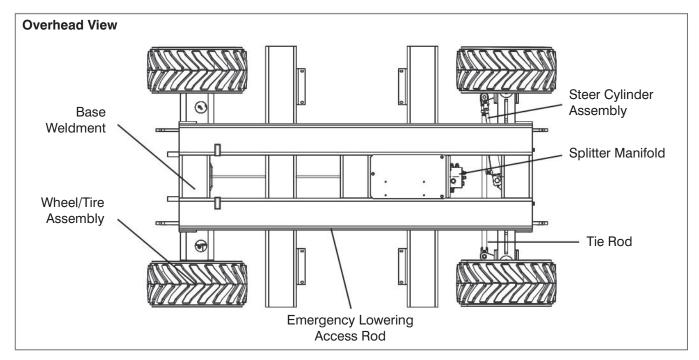
The MEWP is equipped with foam-filled tires. Tire and/or wheel failure could result in an MEWP tipover. Component damage may also result if problems are not discovered and repaired in a timely fashion.

- Check all tire treads and sidewalls for cuts, cracks, punctures and unusual wear.
- Check each wheel for damage and cracked welds.
- Check each bolt for proper torque to ensure none are loose.
- Check wheel motor assembly for loose or missing parts and signs of visible damage.
- Ensure wheels are aligned and true vertically and horizontally.

Intermixing tires of different types or using tires of types other than those originally supplied with this equipment can adversely affect stability. Therefore, replace tires only with the exact Skyjack-approved type. Failure to operate with matched approved tires in good condition may result in death or serious injury.

**WARNING** 

Refer to Table 4.2 for wheel/tire specifications.



#### **Steer Cylinder Assembly**

 Ensure steer cylinder assembly is properly secured, there are no loose or missing parts, all fittings and hoses are properly tightened and there is no evidence of hydraulic leakage.

#### Splitter Manifold

 Ensure all fittings and hoses are properly tightened and there is no evidence of hydraulic leakage.

#### Tie Rod

 Ensure there are no loose or missing parts, tie rod end studs are locked and there is no visible damage.

#### • Emergency Lowering Access Rod

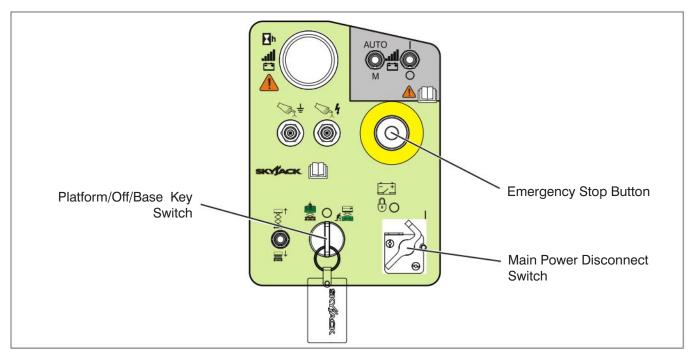
- Ensure rod is properly secured and there is no visible damage.

#### Ladder

- Ensure there are no loose or missing parts and there is no visible damage.

#### Hydraulic Outriggers (If Equipped)

- Ensure there are no loose or missing parts and there is no visible damage.



#### 2.4 Function Tests

Function tests are designed to discover any malfunctions before MEWP is put into service. The operator must understand and follow step-by-step instructions to test all MEWP functions.

#### **IMPORTANT**

Never use a malfunctioning MEWP. If malfunctions are discovered, MEWP must be tagged and placed out of service. Repairs to MEWP may only be made by a qualified service technician.

After repairs are completed, operator must perform a pre-operation inspection and a series of function tests again before putting MEWP into service.

Prior to performing function tests, be sure to read and understand Section 3.8 - Start Operation.

#### 2.4-1 Test Main Power Disconnect Switch

 In battery/electrical compartment, turn main power disconnect switch to "O" off position. Result: MEWP functions should not operate.

#### 2.4-2 Base Control Console



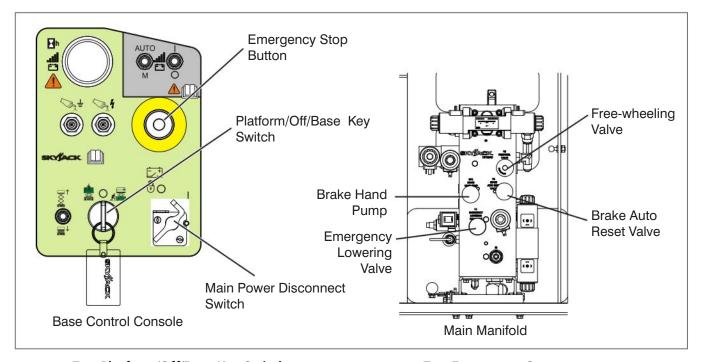
Ensure that you maintain three points of contact when using the ladder to mount/ dismount platform.

- 1. Use the ladder of MEWP to access platform.
- 2. Close the gate.
- 3. On platform control console, pull out " emergency stop button.



- 4. Use the ladder to dismount from platform.
- 5. Turn main power disconnect switch to "|"on position.





Test Platform/Off/Base Key Switch



Be aware of overhead obstructions or other possible hazards around the MEWP when lifting.

- 1. Pull out base "

  " emergency stop button.
- 2. Select platform/off/base key switch "O" off position. Attempt to raise or lower the platform.

**Result:** Platform raising and lowering functions should not operate.

 Select platform/off/base key switch to ""
platform position. Attempt to raise or lower the platform.

**Result:** Platform raising and lowering functions should not operate.

 Select and hold platform/off/base key switch to "self-" base position. Attempt to raise or lower the platform. Result: Platform raising and lowering functions should operate.

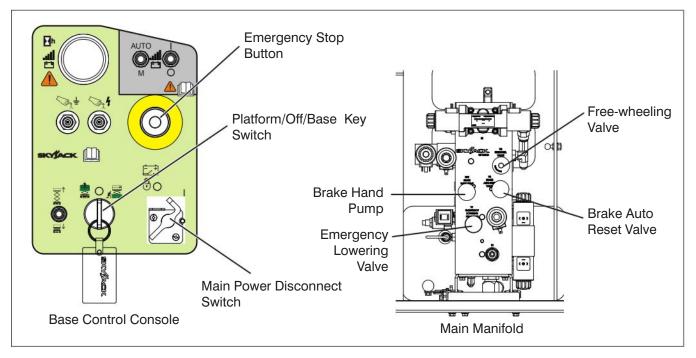
#### Test Emergency Stop

- Push in "O" emergency stop button and attempt to raise or lower the platform.
   Result: Platform raising and lowering functions should not operate.
- 2. Pull out base "O" emergency stop button.

#### Test Platform Raise/Lower Switch

 Select platform/off/base key switch to "♣■" base position and raise or lower the platform with platform "♣
" raise or "■■" lower switch.

**Result:** Platform raising and lowering functions should operate.



#### Test Emergency Lowering

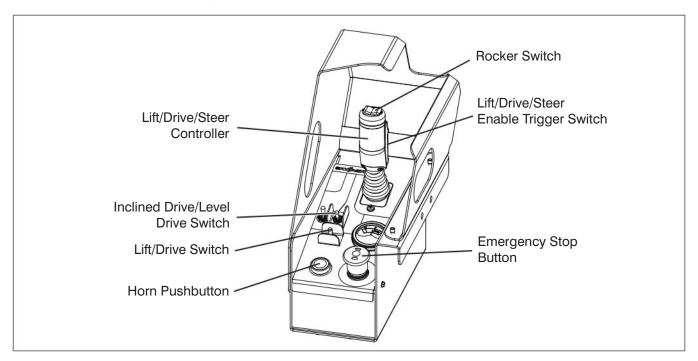
- 1. Raise the platform.
- Locate holding valve manual override knob at the base of each lift cylinder. Depress and turn counterclockwise. If necessary, use access rod that is located on the base of the MEWP.
- 3. On motor/hydraulic compartment, pull out and hold emergency lowering valve to fully lower the platform.

**Result:** The platform should lower.

4. To restore normal operation, depress and turn holding valve manual override knobs clockwise.

#### Test Free-wheeling

- 1. Ensure path of intended motion is clear.
- 2. Release the brake manually (refer to Section 2.5-2).
- Turn free-wheeling valve knob counterclockwise to a fully opened position and attempt to push/pull the MEWP.
   Result: MEWP should move.
- 4. Turn free-wheeling valve knob clockwise to a fully closed position for normal operation.
- 5. Reengage the brake (refer to Section 2.5-2).



#### 2.4-3 Platform Control Console

- 1. Ensure base "O" emergency stop button is pulled out.
- 2. Ensure main power disconnect switch is in "|" on position.
- 3. Select platform/off/base key switch to " platform position and remove key.



#### WADNING

Ensure that you maintain three points of contact when using the ladder to mount/ dismount platform.

- 4. Use the ladder of MEWP to access platform.
- Close the gate.
- 6. On platform control console, pull out "emergency stop button.
- Test Emergency Stop
- Push in "o" emergency stop button and attempt to activate any platform function.
   Result: All selected platform functions should not operate.

- Test Enable Trigger Switch
- Without activating "a" enable trigger switch, attempt to activate any platform function.
   Result: All platform functions should not operate.
- · Test Platform Raising/Lowering

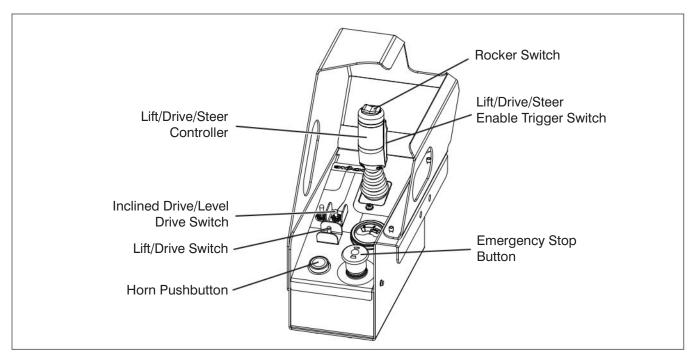


Be aware of overhead obstructions or other possible hazards around the MEWP when lifting.

- Select lift/drive switch to "∑↓ " lift position.
- 2. Activate and hold "" enable trigger switch.
- 3. Push or pull controller handle until desired height is reached.

**Result:** Platform raising and lowering functions should operate.





#### Test Lowering Warning

- Raise the platform until approximately a height of 3 to 4 meters is reached then attempt to fully lower the platform.
  - **Result:** Platform should stop lowering at a height of 2.5 meters high and an alarm should sound.
- 2. Release controller handle, ensure area around scissor is clear, then continue lowering the platform.

#### Test Steering

- 2. Activate and hold "" enable trigger switch.
- Press rocker switch on top of controller to "left and "right." right.
   Result: Steer wheels should turn left and right.

#### Test Driving

1. Ensure path of intended motion is clear.

- 2. On platform control console, select lift/ drive switch to "A" drive position.
- 3. Activate and hold "a" enable trigger switch.
- 4. Slowly move controller in "T" forward or "T" reverse direction until MEWP begins to move, and then return handle to center position.

**Result:** MEWP should move in forward or reverse direction, and then come to a stop.

#### Test Elevated Drive Speed

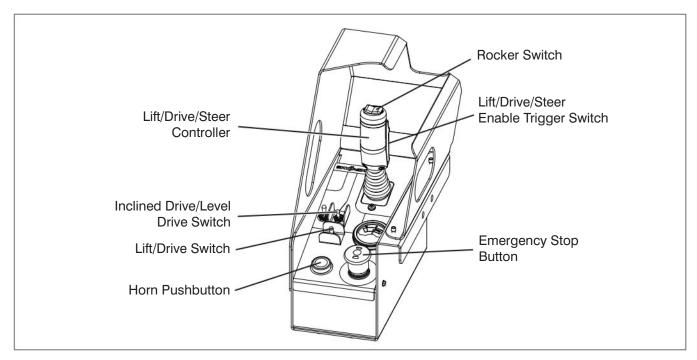


Be aware of overhead obstructions or other possible hazards around the MEWP when lifting.

- 1. Ensure path of intended motion is clear.
- 2. Raise the platform until approximately a height of 2 meters is reached and attempt to drive forward or reverse.

**Result:** MEWP should move slower than when it is in stowed position.





Test Brakes



Brakes will engage instantly when you release the controller handle, causing MEWP to stop immediately.

- 1. Ensure path of intended motion is clear.
- 2. Activate and hold "" enable trigger switch.
- 3. Drive MEWP " " forward. Test brake by releasing controller handle.

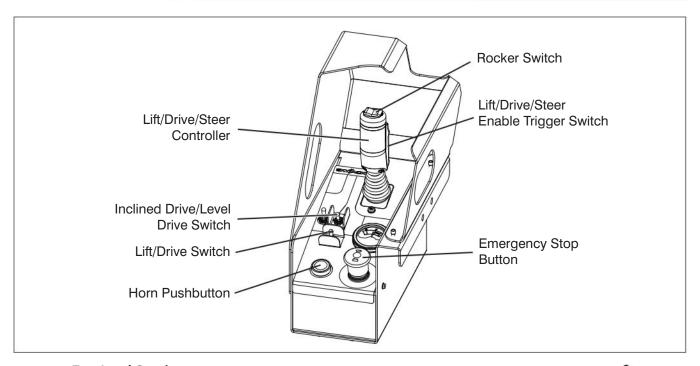
**Result:** MEWP should come to a stop. If MEWP pulls to one side while stopping, do not operate MEWP until brake adjustments have been checked.

4. Drive MEWP " " forward. Test brake again by releasing " enable trigger switch only.

**Result:** MEWP should come to an instant and abrupt stop. If MEWP does not stop immediately, or if MEWP pulls to one side while stopping, do not operate MEWP until brake adjustments have been checked.

#### Test Horn

1. Push "born pushbutton. Result: Horn should sound.



Test Load Sensing



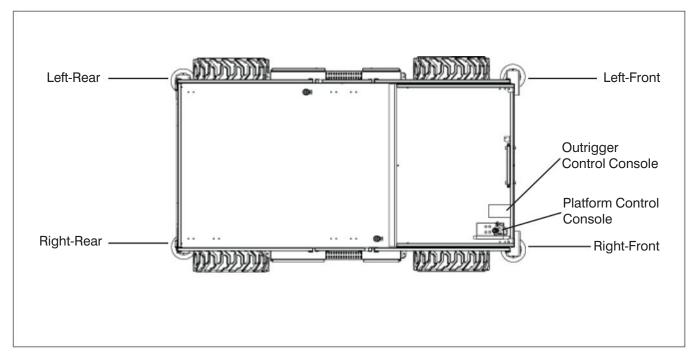
#### WARNING

Be aware of overhead obstructions or other possible hazards around the MEWP when lifting.

- 1. Pull out platform "O"emergency stop button.
  - **Result:** Beeper should sound for approximately 1 second and light should turn on.
- 2. Select lift/off/drive switch to "♣\dagger\*" lift position.
- 3. Activate and hold "" enable trigger switch.
- Push controller handle and raise the platform to an approximate height of 1 meter.
- 5. Attempt to lower the platform using the following steps:
  - a. Push in platform "o" emergency stop button.

- b. Activate and hold "" enable trigger switch.
- c. Pull controller handle and attempt to lower the platform.
- d. Pull out platform "o" emergency stop button.
   Result: Platform should not lower and beeper should sound continuously.
- 6. Depress "emergency stop button, release controller handle, pull out "emergency stop button, activate and hold "enable trigger switch and pull controller handle to fully lower.





- Test Hydraulic Outriggers (If Equipped) (For Hydraulic Outrigger Operation, refer to **Section 3.8-9)** 
  - 1. Ensure MEWP is parked on a firm, level surface and free from obstructions.
  - 2. Ensure platform is fully lowered.
  - 3. Ensure outriggers are fully retracted.
  - 4. Auto-level (If equipped): Use auto-level to extend outriggers. Result: All four outriggers will extend until they are supporting weight and bring machine to within level.
  - 5. Once auto-level is complete, attempt to lift platform 1 foot and then lower the platform to stowed position.

Result: Platform will lift and lower.

6. With platform at stowed position, fully retract all outriggers using auto-level. Result: All four outriggers will retract until they are in the stowed (up) position.



Ensure that there are no personnel or obstructions in the path of travel, including blind spots.

7. Drive the MEWP to maximum speed. Result: MEWP drives at high speed.



Be aware of overhead obstructions or other possible hazards around the MEWP when lifting or driving.

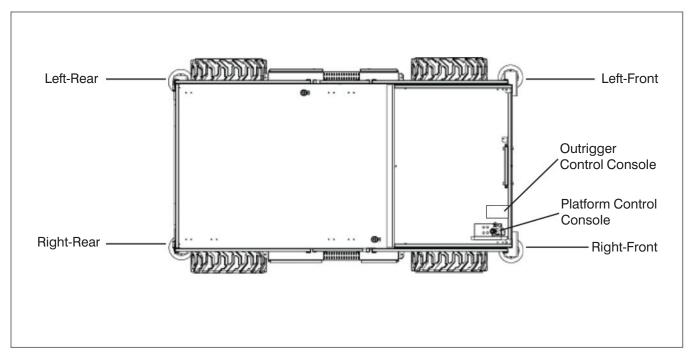
8. Lift platform to 12 feet (measured from the bottom of the tires to the platform surface) from stowed position.

**Result:** Lift function will operate.

- 9. Drive MEWP at raised height (12 feet). Result: MEWP drives at slow speed.
- 10. Attempt to operate outriggers at raised height (12 feet).
  - Attempt to partially extend Left-Front Outrigger (approximately 4"). Result: Outrigger will not extend.
  - Attempt to partially extend Right-Front Outrigger (approximately 4").

Result: Outrigger will not extend.



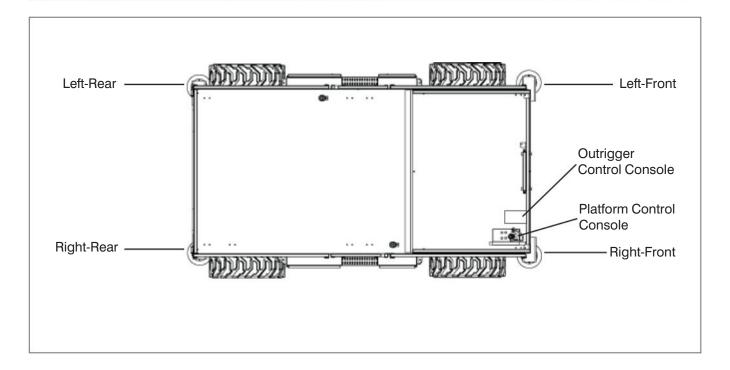


- Attempt to partially extend Right-Rear Outrigger (approximately 4").
   Result: Outrigger will not extend.
- Attempt to partially extend Left-Rear Outrigger (approximately 4").
   Result: Outrigger will not extend.
- 11. Lower the platform to stowed position. **Result:** Lower function will operate.
- 12. Raise the platform 1 foot from stowed position and partially extend Left-Front Outrigger (approximately 4").
  - Attempt to lift the platform. **Result:** Lift function will not operate.
  - Attempt to drive the MEWP. **Result:** Drive function will not operate.
  - Attempt to lower the platform.
     Result: Lower function will operate.
- 13. Platform at stowed position.
  - With Left-Front Outrigger partially extended, attempt to lift the platform.
     Result: Lift function will not operate.
  - With Right-Front Outrigger partially extended, attempt to lift the platform.
     Result: Lift function will not operate.
  - With Right-Rear Outrigger partially extended, attempt to lift the platform.

**Result:** Lift function will not operate.

- With Left-Rear Outrigger partially extended, attempt to lift the platform.
   Result: Lift function will not operate.
- 14. Platform at stowed position.
  - Extend each outrigger until it raises the tires up approximately 2".
  - Retract the Left-Front Outrigger until the weight is resting on the corresponding tire.
  - Extend the Right-Rear Outrigger until it makes contact with ground.
  - Attempt to lift the platform 1 foot.
     Result: Lift function will not operate.
- 15. Platform at stowed position.
  - Extend each outrigger until it raises the tires up approximately 2".
  - Retract the Right-Front Outrigger until the weight is resting on the corresponding tire.
  - Extend the Left-Rear Outrigger until it makes contact with ground.
  - Attempt to lift the platform 1 foot.
     Result: Lift function will not operate.





- 16. Platform at stowed position.
  - Extend each outrigger until it raises the tires up approximately 2".
  - Retract the Right-Rear Outrigger until the weight is resting on the corresponding tire.
  - Extend the Left-Front Outrigger until it makes contact with ground.
  - Attempt to lift the platform 1 foot. **Result:** Lift function will not operate.
- 17. Platform at stowed position.
  - Extend each outrigger until it raises the tires up approximately 2".
  - Retract the Left-Rear Outrigger until the weight is resting on the corresponding tire.
  - Extend the Right-Front Outrigger until it makes contact with ground.
  - Attempt to lift the platform 1 foot.
     Result: Lift function will not operate.
- 18. Extend all four outriggers until all tires are off the ground and the MEWP is levelled.
  - Lift the platform to 12 feet.
     Result: Lift function will operate.

 Lower the platform from raised height (12 feet).

**Result:** Lower function will operate.



If any outrigger interlocks fail to operate in the expected manner, the MEWP should be tagged and removed from operation immediately.



Repairs to the MEWP may only be made by a qualified service technician.



Section 2 - Familiarization Procedures

#### 2.5 Winching and Towing Procedure

This section provides the operator with the Winching and Towing procedure, which includes instructions on how to manually release the brakes.



#### WARNING

Ensure platform is fully lowered before winching or towing. Sudden motion could cause the MEWP to become unstable.

Death or serious injury could result.



#### WARNING

In emergency situations where MEWP functions are not available and lowering is impeded by an obstacle, utmost care must be taken to move MEWP far enough to clear obstacle. In such cases, operation must be extremely smooth with no sudden movements and must not exceed a speed of 5 cm/sec.



#### WARNING

When pushing, winching or towing, do not exceed 3.2 km/h.



#### WARNING

Do not push, winch or tow MEWP onto a slope, or brake the towing vehicle rapidly. Do not pull MEWP down an incline towards a winch.

#### 2.5-1 To Release Free-wheeling Valve

1. Ensure MEWP is on level ground. Chock or block the wheels to prevent MEWP from rolling.

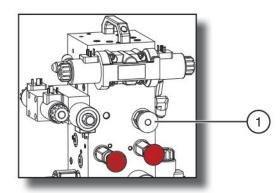


Figure 2-6. Free-wheeling Valve

2. Free-wheeling Valve - Turning the valve knob counterclockwise (item 1) to a fully opened position allows fluid to flow through the wheel motors, thus providing "free-wheeling".



#### WADNING

The free-wheeling valve must be closed tightly (clockwise) for normal operation.

#### 2.5-2 To Release Brakes Manually

Releasing the brakes manually depends on the brake system that is provided on the MEWP.



#### NARNING

Do not manually disengage brakes if the MEWP is on a slope.

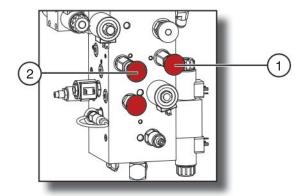


Figure 2-7. Disc Brakes System

#### NOTE

Brakes must be manually disengaged for pushing, winching or towing.

- Ensure MEWP is on level ground. Chock or block wheels to prevent MEWP from rolling.
- 2. Turn main power disconnect switch to "O" off position.
- Locate brake auto reset valve plunger (item 1) and brake hand pump (item 2) at the main manifold in the motor/hydraulic compartment.
- 4. Push in brake auto reset valve plunger.
- Grasp brake hand pump and rapidly depress until firm resistance is felt. The brakes are now released.



6. Remove wheel chocks or blocks, then push, winch or tow MEWP to desired location.



# Brakes must be reengaged immediately after reaching the desired location.

- 7. Position MEWP on a firm and level surface.
- 8. Chock or block wheels to prevent MEWP from rolling.
- 9. Reengage brakes by pulling out brake auto reset valve plunger.

#### 2.6 Emergency Lowering Procedure

This section guides the operator on how to use emergency lowering system. This system allows platform lowering in the event of an emergency.



# Keep clear of scissors mechanism when using emergency lowering valve.

- Remove any obstructions from a descending platform.
- Extension platform(s) may need to be retracted or MEWP may need to be moved to clear obstruction. Refer to Section 2.5 for winching and towing procedures.

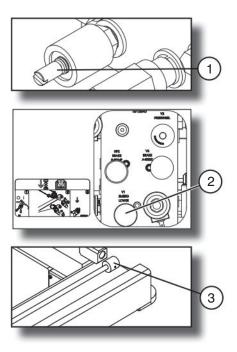


Figure 2-8. Emergency Lowering System

- Locate holding valve override knob (item 1) at base of each lift cylinder. Depress and turn counterclockwise (1/4 turn). If necessary, use emergency lowering access rod (item 3) located on MEWP base.
- 4. On the motor/hydraulic compartment, pull out and hold emergency lowering pull valve (item 2) to lower platform.
- 5. To restore normal operation, depress and turn the holding valve override knobs clockwise.



#### 3.0 Operation

This section provides the necessary information needed to operate the MEWP. It is important that the user reads and understands this manual before operating the MEWP.

#### 3.1 General

In order for this MEWP to be in good working condition, it is important that the operator meets the necessary qualifications and follow the operator's daily inspection checklist referred to in this manual.

#### 3.1-1 Operator Qualifications

- Only trained and authorized personnel shall be permitted to operate an MEWP.
- Safe use of this MEWP requires the operator to understand the limitations and warnings, operating procedures and operator's responsibility for maintenance. Accordingly, the operator must understand and be familiar with this operating manual, its warnings and instructions, and all warnings and instructions on the MEWP.
- The operator must be familiar with employer's work rules and related government regulations and be able to demonstrate the ability to understand and operate this make and model of MEWP in the presence of a qualified person.

#### 3.1-2 Operator's Responsibility for Maintenance



#### WARNING

Maintenance must be performed by trained and competent personnel who are familiar with mechanical procedures.

Death or serious injury could result from the use of an MEWP that is not properly maintained or kept in good working condition.

- The operator must be sure that the MEWP has been properly maintained and inspected before using it.
- The operator must perform all the daily inspections and function tests found in Table 4.6, even if the operator is not directly responsible for the maintenance of this MEWP.

#### 3.1-3 Maintenance and Inspection Schedule

- Refer to Service manual for frequent (every 3 months or 150 hours) and annual inspection details.
- The actual operating environment of the MEWP may affect the maintenance schedule.



#### WARNING

Use original or manufacturer-approved parts and components for the MEWP.

#### NOTE

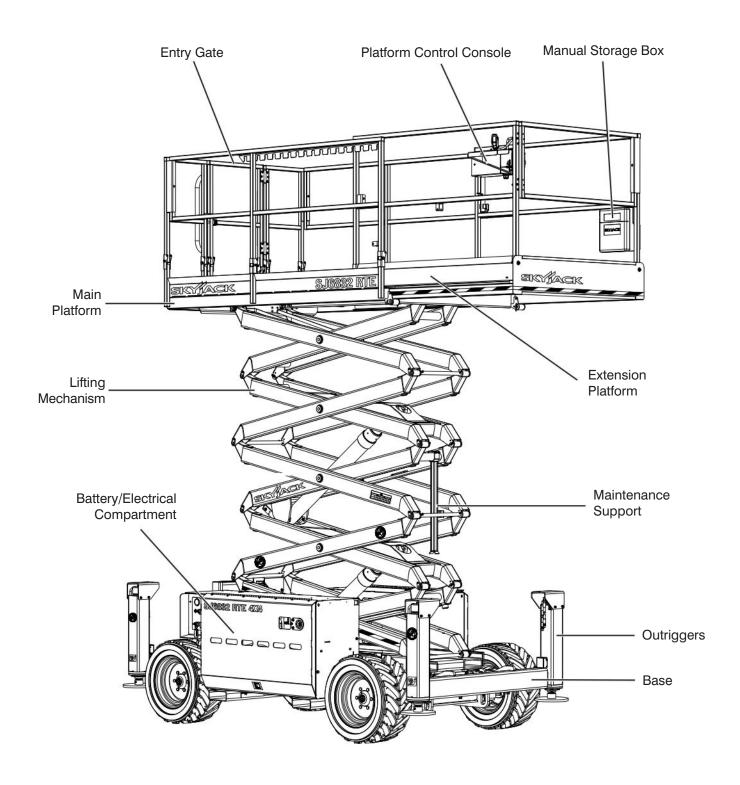
Refer to Skyjack's website www.skyjack.com for latest service bulletins prior to performing frequent or yearly inspections.

#### 3.1-4 Owner's Inspections

It is the responsibility of the owner to arrange daily, quarterly (or 150 hours) and annual inspections of the MEWP. Refer to Table 4.6 for recommended maintenance and inspection areas and intervals. A record of annual inspection is kept on a label located on the scissor assembly. Refer to Table 4.3 in this manual.



#### 3.2 Major Components



SKYJACK Model SJ 6832RTE MEWP

#### 3.3 Major Assemblies

The MEWP consists of three major assemblies: base, lifting mechanism and platform.

#### 3.3-1 Base

The base is a rigid, one-piece weldment which supports two side compartments.

- One compartment contains the battery, base control console and electrical components. The other compartment contains the emergency lowering system, brake release and hydraulic components.
- The four wheels are hydraulically-motor driven with two front wheels steerable by a hydraulic cylinder.
- The rear wheel motors have spring-applied hydraulically released disc brakes.

#### 3.3-2 Lifting Mechanism

The lifting mechanism is constructed of formed steel or tube sections making up a scissor-type assembly. The scissor assembly is raised and lowered by single-acting hydraulic lift cylinders with holding valves. A two-section pump provides hydraulic power to the lift cylinders.

#### 3.3-3 Platform

The platform is constructed of a tubular support frame, a skid-resistant "diamond plate" deck surface and 990 mm hinged guardrails with 152 mm toe boards and mid-rails. The platform can be entered from the rear through a spring returned gate with latch. The platform is also equipped with a manual extension platform. A 220V outlet is also located on the platform.

# 3.4 Serial Number Nameplate

The serial number nameplate, located at the rear of the MEWP, lists the following:

- Model number
- Registration number
- Serial number
- Maximum capacities
- Maximum number of persons permissible on the platform
- · Maximum manual force
- MEWP weight
- · Maximum drivable height
- Maximum platform height
- System pressure
- Lift pressure
- Maximum wheel load
- Maximum wind speed
- Voltage
- Maximum chassis inclinations
- Date manufactured

# 3.5 Component Identification

The following descriptions are for identification, explanation and locating purposes only.

# 3.5-1 Manual Storage Box

This weather-resistant box is mounted on the platform railings. It contains the operating manual and other important documentation. The operating manual for this make and model of MEWP must be stored in this box.



# 3.5-2 Maintenance Support

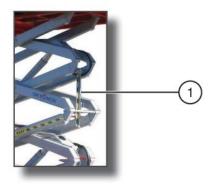


Figure 3-1. Maintenance Support

 Maintenance Support - The maintenance support is a safety mechanism designed to support the scissor assembly. When properly positioned, it can support the scissor assembly and empty platform. The maintenance support must be used when inspection and/or maintenance is to be performed within the lifting mechanism. Refer to Section 3.12 for how to use the maintenance support.



The maintenance support must be used when inspection and/or maintenance or repairs are to be performed within the lifting mechanism. Failure to use this safety mechanism could result in death or serious injury.



#### WARNING

Do not reach through the scissor assembly when the platform is raised without the maintenance support properly positioned. Failure to avoid this hazard could result in death or serious injury.

# 3.5-3 Folding Guardrail System

This system, when folded down, reduces the height of the retracted MEWP for transporting and traveling through doorways only. Refer to Section 3.9 for guardrail folding procedure.



The scissor assembly must be fully lowered before raising or lowering the guardrails.



Any lowered guardrail will create a fall hazard. Remain away from the sides of the platform while raising or lowering the guardrails to avoid falling. Refer to Section 3.9, for guardrail folding procedure.

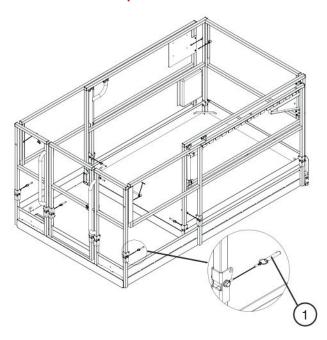


Figure 3-2. Folding Guardrail System

1. **Guardrail Locking Pin with Lanyard** - This pin is used to lock the guardrail in place.



Before operating this MEWP check the guardrail system for loose or missing locking pins. The guardrail system must be upright and all pins must be locked in place.

Death or serious injury could result if the guardrail system is not upright or properly locked.

# 3.5-4 Fall Protection Anchorage

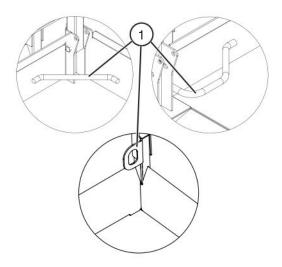


Figure 3-3. Fall Protection Anchorage

 Fall Protection Anchorage - Use this as an attachment point for a fall restraint system. Do not attach anchorage connectors to any other point on the platform. Do not use this to lift, anchor, secure or support the platform or any other apparatus or material.



The lanyard attachment anchorage is used for travel restraint, within the limits of the platform only. It is not a fall arresting device! Used as such could result in death or serious injury.

# 3.6 Component Identification (Optional Equipment/Attachments)

This section describes the components that are optional to MEWPs.

# 3.6-1 Outrigger Control Console (Auto-Leveling) (If Equipped)

The outrigger control console is located next to the platform control console. These switches control the outriggers' extension and retraction.

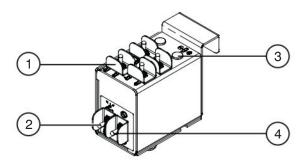


Figure 3-4. Outrigger Control Console with All Options

- Outrigger Extend/Retract Switches These switches control the extension or retraction of each individual outrigger.
- 2. **Auto-Level Switch** In the " extend position, each outrigger extends and automatically adjusts until MEWP is level. In the " retract position, the outriggers retract.
- 3. **Outrigger Enable Switch** This "Outrigger enable switch, when in the extend or retract position, activates functions on the auto-level switch and outrigger extend/retract switches.

- 4. **Leveling Indicator Light** This light illuminates to display the status of the outriggers when the auto and manual level functions are in use. The indicator light has the following states:
  - Off: The outriggers are fully retracted.
  - Flashing Rapidly: The outriggers are extending but the platform is not level.
  - Flashing: The outriggers are extended but the platform is not yet level.
  - Solid: The outriggers are extended and the platform is level.

Notes	S

# 3.6-2 Hybrid Power Pack (HPP) (If Equipped)

The sole purpose of this HPP is to charge the battery. It runs either automatically or manually. In automatic mode, the HPP automatically starts when the battery level drops to a 50% charge level and automatically shuts off at 90%. In manual mode, the operator decides when to start the HPP. It is located on the right side of the motor/hydraulic compartment.



ONLY operate HPP in a well ventilated area. Running HPP emits carbon monoxide, which can cause nausea or death if inhaled.



The HPP exhaust contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.



Turn off HPP before connecting AC supply.

# **HPP Component Identification**

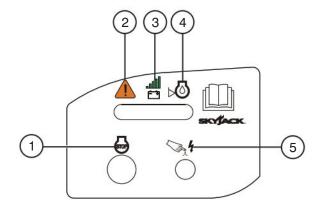


Figure 3-5. HPP Component Identification

1. Push to turn off HPP.

2. Red LED light indicates power overload.

3. Green LED light indicates normal charging condition.

4. Red LED light indicates low oil level.

5. In case of power overload, push to reset power circuit breaker.

#### NOTE

For maintenance, refer to HPP manual.

# **HPP Fuel On/Off Switch**

#### NOTE

Ensure the HPP fuel on/off switch is in "I" on position before attempting to start the HPP.

 Remove locking pin (shown in Figure 3.6) and rotate HPP to access the HPP fuel on/off switch.

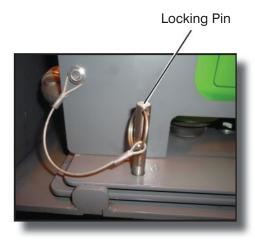


Figure 3-6. HPP Locking Pin

2. Turn HPP fuel on/off switch to "\" on position (shown in Figure 3.7).



HPP Fuel On/Off Switch

Figure 3-7. HPP Fuel On/Off Switch



3. Return HPP to operating position and insert locking pin.

# **Automatic Mode**

1. Ensure main power disconnect is in "|" on position and base " emergency stop button is pulled out.

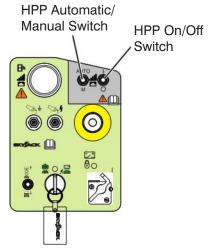


Figure 3-8. Base Control Console

- 2. On the base control console, turn HPP on/off switch to "|" on position.
- 3. Turn HPP automatic/manual switch to "AUTO" position.
- 4. On platform control console, ensure platform "O" emergency stop button is pulled out and turn HPP on/off switch to "I" on position.

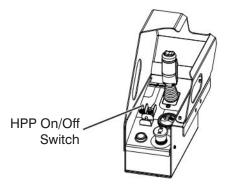


Figure 3-9. Platform Control Console

#### Manual Mode

1. Ensure main power disconnect is in "I" on position and base "O" emergency stop button is pulled out.

- 2. On the base control console, turn HPP on/off switch to "|" on position.
- 3. Turn HPP automatic/manual switch to "M" (manual) position.
- 4. On platform control console, ensure platform "emergency stop button is pulled out and turn HPP on/off switch to "|" on position.

#### **Pull Start**

There is an option to charge the battery while the MEWP is off. Refer to the steps below.

- Turn main power disconnect switch to "O" off position.
- 2. On base control console, turn HPP on/off switch to "|" on position.
- 3. Pull start HPP.

# **Turn Off (From Platform Control Console)**

- 1. Ensure " emergency stop button is pulled out.
- 2. On platform control console, turn HPP on/off switch to "O" off position.

# **Turn Off (From Base Control Console)**

- On base control console, turn HPP on/off switch to "O" off position.
- 2. On HPP, turn HPP fuel on/off switch to "O" off position.

# **Turn Off (From HPP)**

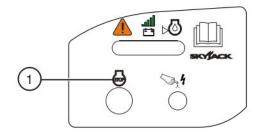


Figure 3-10. HPP Stop Pushbutton

- 1. Depress "HPP stop pushbutton.
- 2. Turn HPP fuel on/off switch to "O" off position.



#### **HPP Refueling Procedure**

This section provides the operator with the procedure on how to refuel the HPP with gasoline.



Do not smoke in an area where HPPs are stored or refueled.

- Use extreme caution while refueling the HPP
- Ensure HPP and MEWP are turned off before refueling.
- Refuel fuel tank only in a well ventilated area away from open flame and other sources of ignition, authorized by your employer and supervisor.
- Use only unleaded gasoline with an octane rating of 87.
- 1. Ensure HPP and MEWP are turned off and emergency stop buttons are depressed.
- 2. Let HPP cool for at least three minutes before slowly loosening and removing fuel cap.
- 3. Carefully pour fuel into tank ensuring that no spillage occurs.
- 4. Secure fuel cap.
- 5. Ensure there are no leaks in the fuel system.
- 6. Wipe up any spilled fuel.
- 7. Dispose of rags in an approved container.

#### NOTE

For maintenance, refer to HPP manual.

# **Protection of Environment from Chemical Dangers**



#### WARNING

Gasoline and engine oil are chemicals, which can contaminate the environment. If they are spilled during filling and reach the water, they can cause damage to the environment, e.g., death of fish. For such damage, the party responsible is liable! Therefore, gasoline and engine oil must not get into the sewage system, streams, rivers or other surface water. For that reason, immediately remove the dripped off or spilled gasoline or engine oil with appropriate means and dispose of these means according to the regulations.



HPP fuels are combustible. Inspect the MEWP in an open, well-ventilated area away from heaters, sparks and flames. Always have an approved fire extinguisher within easy reach.



Failure to detect and correct fuel leaks will result in an unsafe condition. An explosion or fuel fire may cause death or serious injury.

#### 3.7 Operator's Responsibility

It is the responsibility of the operator, prior to each work shift, to perform the following:

# 1. Visual and Daily Maintenance Inspections

- are designed to discover any damage of components before the MEWP is put into service.
- are done before the operator performs the function tests.



Failure to locate and repair damage, and discover loose or missing parts may result in an unsafe operating condition.

#### 2. Function Tests

 are designed to discover any malfunctions before the MEWP is put into service.

#### **IMPORTANT**

The operator must understand and follow the step-by-step instructions to test all MEWP functions.

The operator should make a copy of the Operator's Daily Inspection Checklist (see Table 4.6) and fill out the visual and daily maintenance inspections and the function tests sections while performing the items outlined in Section 2.3 and Section 2.4.

# **IMPORTANT**

If MEWP is damaged or any unauthorized variation from factory-delivered condition is discovered, MEWP must be tagged and removed from service.

Repairs to the MEWP may only be made by a qualified service technician. After repairs are completed, the operator must perform visual and daily maintenance inspections & function tests again.

Scheduled maintenance inspections shall only be performed by qualified service technician.



# 3.8 Start Operation

Carefully read and completely understand the operating manual and all warnings and instruction labels (refer to Section 5 - Labels) on the MEWP.



Do not operate this MEWP without proper authorization and training. Failure to avoid this hazard could result in death or serious injury.

Before operating this MEWP, perform the following steps:

- Visual and daily maintenance inspections (see Section 2.3)
- 2. Function tests (see Section 2.4)
- Jobsite inspection
   It is the responsibility of the operator to perform a jobsite inspection and avoid the following hazardous situations:
  - holes or drop-offs
  - · ditches or soft fills
  - floor obstructions, bumps or debris
  - · overhead obstructions
  - electrical cords, hoses and high voltage conductors
  - hazardous locations
  - inadequate surface support to withstand all load forces imposed by the MEWP
  - · wind and weather conditions
  - the presence of unauthorized personnel
  - other possible unsafe conditions



An operator should not use any MEWP that:

- does not appear to be working properly.
- has been damaged or appears to have worn or missing parts.
- has alterations or modifications not approved by the manufacturer.
- has safety devices which have been altered or disabled.

Failure to avoid these hazards could result in death or serious injury.

Section 3 - Operation Start Operation

#### 3.8-1 To Activate Base Control Console



Ensure that you maintain three points of contact when using the ladder to mount/ dismount platform.

- 1. Use the ladder of MEWP to access platform.
- 2. Close the gate.
- 3. On platform control console, pull out "O' emergency stop button.
- 4. Use the ladder to dismount from platform.
- 5. Turn main power disconnect switch to "|" on position.
- 6. On base control console, pull out "O" emergency stop button.
- 7. Insert key into platform/off/base key switch and select "

  "base position.

# 3.8-2 To Raise or Lower Platform Using Base Control Console



#### WARNING

Be aware of overhead obstructions or other possible hazards around the MEWP when lifting.

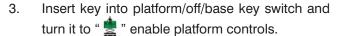


Do not lower the platform unless the area below is clear of personnel and obstructions.

- 1. Activate base control console (refer to Section 3.8-1).
- On base control console, select and hold "♣➡" base position on platform/off/base key switch. Select and hold platform raise/lower switch to either "➡™" raise or "➡➡™" lower position. Release switch to stop.

#### 3.8-3 To Activate Platform Control Console

- 1. Turn main power disconnect switch to "|" on position.
- 2. On the base control console, pull out the " emergency stop button.





#### WARNING

Ensure that you maintain three points of contact when using the ladder to mount/ dismount platform.

- 4. Use the ladder of MEWP to access platform.
- 5. Close the gate.
- 6. On platform control console, pull out "
  emergency stop button.

# 3.8-4 To Raise or Lower Platform Using Platform Control Console



#### WARNING

Be aware of overhead obstructions or other possible hazards around the MEWP when lifting.



#### WARNING

Do not lower the platform unless the area below is clear of personnel and obstructions.

- 1. Activate platform control console (refer to Section 3.8-3).
- 2. On platform control console, select lift/drive switch to "  $\begin{tabular}{c} \begin{tabular}{c} \begin$
- 3. Activate and hold "d" enable trigger switch.
- Move controller handle forward "∑ " to raise or backward " to lower the platform, until desired height is reached.

#### NOTE

Lowering is not proportional.

5. Return controller to neutral center position to stop. Release enable trigger switch.



#### WADNING

To protect against unintended movement of the MEWP, push in the emergency stop button after you have arrived at your desired location or elevation.

#### NOTE

If the tilt alarm sounds and the platform does not, or only partially raises, immediately lower the platform completely and ensure that the MEWP is on a firm, level surface. Section 3 - Operation Start Operation

#### 3.8-5 To Drive Forward or Backward



Be aware of blind spots when operating the MEWP.



Ensure that there are no personnel or obstructions in the path of travel, including blind spots.

- 1. Activate platform control console (refer to Section 3.8-3).
- 2. On platform control console, select lift/drive switch to " drive position.
- 3. Activate and hold "a" enable trigger switch.
- 4. Move controller handle "" forward or "" backward to desired speed and direction of platform travel.
- Return controller to neutral center position to stop.
   Release "a" enable trigger switch.



To protect against unintended movement of the MEWP, push in the emergency stop button after you have arrived at your desired location or elevation.

#### 3.8-6 To Steer

- 1. Activate platform control console (refer to Section 3.8-3).
- 3. Activate and hold "A" enable trigger switch.
- 4. Press "Focker on top of controller handle in either direction to steer.

#### NOTE

Steering is not proportional. Driving and steering may be active at the same time.

# 3.8-7 To Select Drive Torque

 High Torque: Select high torque when climbing grades, traveling on rough terrain or when loading or unloading MEWP. To activate high torque, select torque switch to "position."



MEWP must be in fully retracted position when operated on any grade. Driving while elevated on any grade may result in death or serious injury.

 Low Torque: Select low torque when traveling on flat surface. To activate low torque, select torque switch to " "low torque (high speed) position.



To protect against unintended movement of the MEWP, push in the emergency stop button after you have arrived at your desired location or elevation.

# 3.8-8 To Extend or Retract Manual Extension Platform

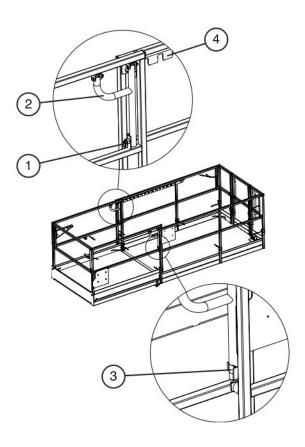


Figure 3-11. Manual Extension Platform

- To extend/retract manual extension platform, pull out the pull pin (item 1), lift push bars (item 2) up from the gripper clip (item 3) then push/pull the push bar handle until desired extension/retraction is reached.
- Ensure push bar rests in one of the slots in the extension interval (item 4). Fasten push bar down into the gripper clip and ensure pull pin is locked in place.

Section 3 - Operation Start Operation

# 3.8-9 Hydraulic Outriggers (If Equipped)

These devices are mounted to four corners of the base. When properly positioned, they increase the stability of the MEWP.

# 3.8-9a Before Operation

- Move around MEWP to check overhead clearances and ground obstructions.
- 2. To lower the platform completely, refer to Section 3.8-2. Outrigger controls are not functional when platform is raised.
- Check that the supporting surface under the tires and outrigger pads is firm and capable of supporting MEWP and rated load. Do not place outrigger pad on a street drain, manhole cover or other unsupported surface.

# 3.8-9bTo Extend Outriggers

- On outrigger control console, select and hold "
   " enable switch to provide power to outrigger circuit.
- 5. **Auto Extension:** Select auto-level switch to "\\sum \)" extend position until leveling indicator light stops flashing and remains in a solid state. MEWP should be completely supported by the outriggers and level at this point.

Manual Extension: Select corresponding outrigger extend/retract switch to "extend position until platform is fully supported by outriggers and is level. The indicator light flashes while platform is being leveled and remains solid once platform is level. The indicator light has the following states:



Off: The outriggers are fully retracted.



**Flashing Rapidly:** The outriggers are extending but the platform is not level.

∰ FI

**Flashing:** The outriggers are extended but the platform is not yet level.



**Solid:** The outriggers are extended and the platform is level.

- Ensure each outrigger pad is in firm contact over its entire surface area, with a suitable supporting surface! Make adjustments if necessary using manual outrigger controls.
- Operate all non drive functions as described in their respective sections.

#### NOTE

Each outrigger pad must be in firm contact with the ground for most MEWP functions to work.

#### **NOTE**

Drive functions are disabled if the outriggers are in any position other than fully retracted.



If alarm sounds during operation, the MEWP is not level or an outrigger does not have firm ground contact. Lower the platform immediately! Make the necessary adjustments to level the MEWP.

### 3.8-9c To Retract Outriggers

- On outrigger control console, select and hold "\odots" enable switch to provide power to outrigger circuit.
- 9. **Auto Retraction:** Select auto-level switch to "
  retract position until outriggers are fully retracted.

**Manual Retraction:** Select corresponding pairs of outrigger extend/retract switch to " retract position until outriggers are fully retracted.

#### NOTE

Limit switches are used to protect outriggers from being damaged. If drive functions are not available, visually check to see that all outriggers are fully retracted.



# 3.8-10 Shutdown Procedure

- 1. Completely lower the platform.
- 2. On the platform control console, push in "emergency stop button.



Ensure that you maintain three points of contact when using the ladder to mount/ dismount platform.

- 3. Use the ladder to dismount from platform..
- 4. On base control console, turn platform/off/base key switch to "O" off position and remove the key.
- 5. Turn main power disconnect switch to "O" off position.

Notes	

# 3.9 Guardrail Folding Procedure

When folded down, the folding guardrail system reduces the height of the retracted MEWP for transporting only.



# **WARNING**

Any lowered guardrail will create a fall hazard. Remain away from the sides of the platform while raising or lowering the guardrails to avoid falling.

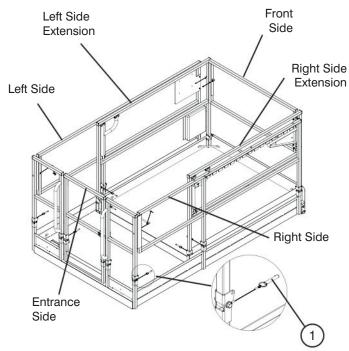


Figure 3-12a. Folding Guardrail System

1. **Guardrail Locking Pin with Lanyard** - This pin is used to lock the guardrail in place.



#### **WARNING**

The scissor assembly must be fully lowered before raising or lowering the guardrails.



#### WARNING

Before operating this MEWP check the guardrail system for loose or missing locking pins. The guardrail system must be upright and all pins must be locked in place. Death or serious injury could result if the guardrail system is not upright or properly locked.

# To fold the guardrail system down:

- 1. Ensure MEWP is on level ground.
- 2. Ensure extension platform is fully retracted.
- 3. Ensure Emergency Stop button is depressed.
- 4. Turn main power disconnect switch to "O" off position.



# WARNING

Ensure that you maintain three points of contact when using the ladder to mount/ dismount platform.

- 5. Use the ladder of MEWP to access platform.
- 6. Close the gate.
- 7. Retract the extension platform fully. Refer to Section 3.8-8.
- 8. Remove the platform control console and outrigger controls (if equipped) and lay it down on the platform.



#### WARNING

Any lowered guardrail will create a fall hazard. Use caution when exiting or entering the platform when the guardrails are lowered.

- 9. Fold down guardrails in the following order: front, right extension, left extension, right-side, left-side and entrance (refer to Figure 3-12a).
- 10. Remove the locking pin that secured the **front guardrail** to the left extension guardrail then swing it towards the right extension and tie wrap front gate to right side guardrail.
- 11. Remove the locking pin on the **right side extension** guardrail and fold it down with the front guardrail.
- 12. Remove the locking pin on the **left side extension** guardrail and fold it down.
- 13. Remove the locking pins on the **right side** guardrail and fold it down.

- 14. Remove all the locking pins on the **left side** guardrail and fold it down.
- 15. With the gate closed, remove all the locking pins on the **entrance side** guardrail and fold the guardrail down.

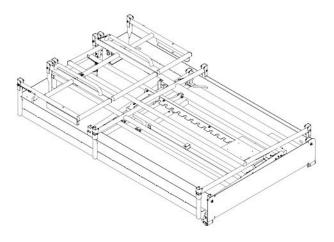


Figure 3-12b. All Guardrails Folded Down

To raise the guardrail system up:



# **WARNING**

The scissor assembly must be fully lowered before raising or lowering the guardrails.

- 1. Ensure that the MEWP is on level ground.
- 2. Ensure extension platform is fully retracted.
- 3. Ensure Emergency Stop button is depressed.
- 4. Turn main power disconnect switch to "O" off position.



#### WARNING

Any lowered guardrail will create a fall hazard. Use caution when exiting or entering the platform when the guardrails are lowered.



#### WARNING

Ensure that you maintain three points of contact when using the ladder to mount/ dismount platform.

5. Use the ladder of MEWP to access platform.



#### **WARNING**

Any lowered guardrail will create a fall hazard. Remain away from the sides of the platform while raising or lowering the guardrails to avoid falling.



#### WARNING

Ensure that the detent ball of each locking pin is all the way through and each cotter pin fully inserted into the pin hole.

- 6. Raising the guardrails up is done in the following order: entrance side, left side, right side, left side extension, right side extension and front side.
- 7. Swing up the **entrance side** guardrail then lock it in place by inserting all locking pins.
- 8. Swing up the **left side** guardrail and lock it in place by inserting all locking pins.
- 9. Swing up the **right side** guardrail and lock it in place by inserting all locking pins.
- 10. Swing up the **left side extension** guardrail and lock it in place by inserting the locking pin.
- Swing up the right side extension guardrail and the front guardrail and lock them in place by inserting the locking pin on the right extension.
- 12. Swing the **front side** guardrail forward and lock it in place by inserting the locking pin.
- Mount the platform control console and outrigger controls (if equipped) at the front right of the platform. Lock them in place.



#### WARNING

Before operating this MEWP check the guardrail system for loose or missing locking pins. The guardrail system must be upright and all pins must be locked in place. Death or serious injury could result if the guardrail system is not upright or properly locked.



# 3.10 Loading/Unloading

Know all national, state or territorial/provincial and local rules which apply to your loading/unloading of MEWPs.

Only qualified personnel shall operate the MEWP during loading/unloading.

Be sure vehicle capacity and loading equipment hoists, chains, straps, etc., are sufficient to withstand maximum MEWP weight.

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

## 3.10-1 Lifting

When it is necessary to lift the Skyjack MEWP the following conditions must be met:

- The platform must be fully lowered.
- The main power disconnect switch must be in "O" off position.
- The motor/hydraulic and battery/electrical compartments must be closed and securely latched.
- The extension platform must be retracted and secured.
- The platform control console must be secured to the railings or removed.
- The platform must be cleared of all personnel, tools and materials.
- The lifting/rigging must be attached to all four lifting points as illustrated in Figure 3-13.

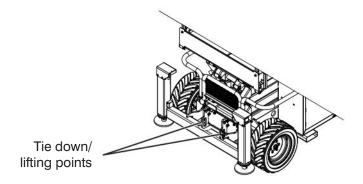


Figure 3-13. Tie Downs/

#### NOTE

The mass of the MEWP is as per Table 4.2. The center of gravity is approximately located in the middle of the MEWP, front to back and side to side, as illustrated in Figure 3-14. Vertically, the center of gravity is approximately just above the base chassis.

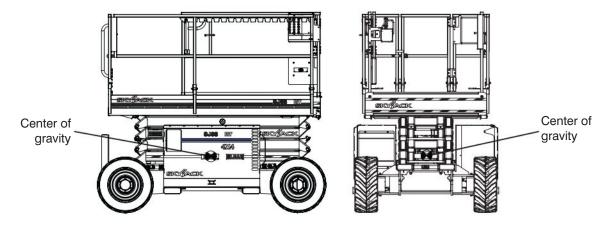


Figure 3-14. Center of Gravity



Section 3 - Operation Loading/Unloading

#### NOTE

Lift with forks in designated forklift lifting locations as illustrated in Figure 3-15.

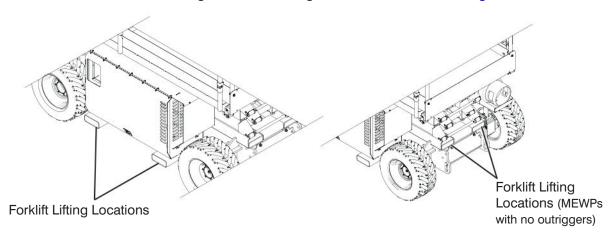


Figure 3-15. Forklift Lifting Locations

# 3.10-2 Driving

When driving the MEWP:

- Ramp or dock capacity should be sufficient to withstand maximum MEWP weight.
- Ramp should be equipped with side guards to prevent inadvertent fall from the ramp.
- Incline should not exceed MEWP gradeability (refer to Table 4.2).
- MEWP brakes should be checked for proper operation.
- MEWP speed should be on high torque setting.



When transporting, the MEWP must be secured to the truck or trailer deck. Tie downs are available as illustrated in Figure 3-13.

# 3.11 Moving the MEWP Through a Doorway



# **WARNING**

# This procedure is suitable for level ground only.

1. Confirm that the height/width of the doorway is sufficient to allow the MEWP to pass through.

#### NOTE

If it is necessary to fold the guardrails, refer to Section 3.9 for guardrail folding procedure.

- 2. Perform a thorough jobsite inspection prior to operating the MEWP to identify potential hazards in your work area.
- Cordon-off the pathway which you intend to travel
- 4. Position the MEWP to allow all future motion, including through the doorway, to be in a forward direction.
- 5. Turn main power disconnect switch to "O" off position.
- 6. Use the ladder of MEWP to access platform.



#### **WARNING**

Ensure that you maintain three points of contact when using the ladder to mount/ dismount platform.

- 7. Close the gate. On platform control console, push in "o" emergency stop button.
- 8. Disconnect and remove platform control console from the platform.
- 9. Fold the guardrails if necessary. (Refer to Section 3.9 for guardrail folding procedure.)
- 10. Use the ladder to dismount from platform.
- 11. Connect platform control console to the connection inside the battery/electrical compartment.

- 12. Ensure there are no personnel in the intended path of travel.
- 13. Notify those around the pathway that you will be moving the MEWP.
- 14. Use a spotter to guide movement. Ensure the spotter remains at a safe distance.
- 15. Ensure that the platform control console is properly oriented in the direction the MEWP is facing.
- 16. Turn main power disconnect switch to "|"on position.
- 17. On base control console, pull out " emergency stop button.
- Insert key into platform/off/base key switch and turn it to " platform position.
- 19. On platform control console, pull out "
  emergency stop button.



#### DANGER

Do not drive the MEWP toward yourself.

- On platform control console, select torque switch to "" low speed drive position.
- Using as low a speed as practical and the operator positioned behind the MEWP, drive forward through doorway.
- 22. Once safely through doorway, push in "o" emergency stop button and turn main power disconnect switch to "O" off position.
- 23. Disconnect platform control console and return it to the platform.



#### WARNING

Ensure that you maintain three points of contact when using the ladder to mount/ dismount platform.

24. Return guardrails to upright position if folded. (Refer to Section 3.9 for guardrail folding procedure.)





# WARNING

Before operating this MEWP check the guardrail system for loose or missing locking pins. The guardrail system must be upright and all pins must be locked in place.

Death or serious injury could result if the guardrail system is not upright or properly locked.

25. Once platform control console is securely reconnected and guardrails up, normal operation may continue.

# 3.12 Maintenance Support Procedure

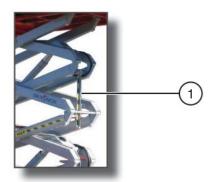


Figure 3-16. Maintenance Support

 Maintenance Support - The maintenance support is a safety mechanism designed to support the scissor assembly. When properly positioned it can support the scissor assembly and empty platform. The maintenance support must be used when inspection and/or maintenance is to be performed within the lifting mechanism.



# **WARNING**

The maintenance support must be used when inspection and/or maintenance or repairs are to be performed within the lifting mechanism. Failure to use this safety mechanism could result in death or serious injury.

## To Deploy the Maintenance Support

- 1. Remove all material from platform.
- 2. Raise platform until there is adequate clearance to swing down maintenance support.
- 3. Swing maintenance support down from storage bracket into a vertical position.
- 4. Remove hands and arms from scissors area.
- Lower platform until bottom end of maintenance support contacts the labeled cross bar and scissors are supported by maintenance support.
- 6. Turn main power disconnect switch to "O" off position.

# **To Store the Maintenance Support**

- 1. Turn main power disconnect switch to "|"on position.
- 2. Raise platform until there is adequate clearance to swing up the maintenance support.
- 3. Swing bar up into storage bracket.
- 4. Lower the platform.



# WARNING

Do not reach through the scissor assembly when the platform is raised without the maintenance support properly positioned. Failure to avoid this hazard could result in death or serious injury.

# 3.13 Battery Maintenance

This section provides the operator with procedures on how to service and charge the battery. This also provides charger operation instructions.

## 3.13-1 Battery Service Procedure



#### WARNING

Explosion Hazard - Keep flames and sparks away. Do not smoke near batteries.





## **WARNING**

Battery acid is extremely corrosive - Wear proper eye and facial protection as well as appropriate protective clothing. If contact occurs, immediately flush with cold water and seek medical attention.

- 1. Turn main power disconnect switch to "O" off position.
- 2. Check battery case for damage.
- Check battery fluid level in each battery. If plates are not covered by at least 1/2" (13 mm) of solution, add distilled or demineralized water (if equipped).
- 4. Clean battery terminals and cable ends thoroughly with a terminal cleaning tool or wire brush.
- 5. Make sure all battery connections are tight.
- 6. Replace any battery that is damaged or incapable of holding a lasting charge.
- 7. Do not use any batteries other than flooded leadacid batteries of the proper AH rating (if equipped).



#### WARNING

Use original or equivalent to the original parts and components for the MEWP.

#### 3.13-2 Battery Charging Operation



Figure 3-17. Battery Charger



#### DANGER

Risk of electric shock - Do not immerse the charger in water. Though the charger is highly resistant to water, it is not designed for immersion and an electric shock can occur.

 Provide adequate ventilation for the batteries and charger. The convection cooled design requires access to cooling air for proper operation. Do not allow blankets or other materials to cover the charger. Although the charger protects itself against overheating, the charger cooling fins should be cleaned if clogged with debris for best performance.



#### WARNING

There could be a spark during charging. Be careful when using fuels, solvents or other flammables near the charger or batteries.

- Connect the power supply cord to a properly grounded 100V/50 or 60Hz, 115V/50 or 60Hz, or 230V/50 or 60Hz socket. This charger automatically senses and adjusts to the AC input voltage range.
- The charging time is affected by numerous factors including battery Amp-Hour capacity, depth of discharge, battery temperature, and battery condition (new, old or defective). Batteries larger than 240 AH can be recharged but will take longer.





# WARNING

Do not disconnect the DC output wires near the batteries when the charger is ON. The resulting arcing could cause the batteries to explode. If the charger must be disconnected, first disconnect the AC power supply cord from its outlet, then disconnect the charger DC connections.



#### **WARNING**

Risk of an electric shock - Do not touch un-insulated parts of the charger output wires, battery connector, or battery terminals.



# **WARNING**

Visually and manually inspect to verify the DC output wires and terminals are in good working condition before each use.

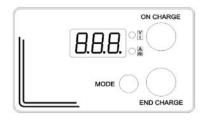


Figure 3-18. Battery Charger Display

# **Display Parameters**

- BATTERY VOLTAGE: two-tone red upper LED
- CURRENT (provided by the charger): two-tone red lower LED
- TIME (in hours lacking to the end of the charge): two-tone green upper LED
- AH (supplied): two-tone green lower LED

#### NOTE

By pressing the MODE button, the parameters' sequence is blocked and it will be kept at the last value displayed. To restart the parameters' sequence, press the MODE button again.

## Batteries do not fully charge.

If the batteries are charged overnight, make sure the AC supply is not being switched off at night with other building items. Check battery condition and for dead cells or reduced capacity. Replace charger only if other problems are not found.

# The AC line circuit breaker or fuse is blown.

A defective circuit breaker or fuse, an overloaded circuit, or a charger problem can cause this condition. Try connecting the charger to a different AC outlet (on a different circuit) in the building. If the AC supply checks good, the charger should be replaced.

#### **BIG LED indicators**

Colour	Description
Red	Constant or Max current phase (IUIa).
Blinking red (4s ON – 1s OFF)	Voltage control phase (IUIa).
Red and blinking green (4s ON – 1s OFF)	Overcharging phase (IUIa).
Red and green alternated	Wait phase (for equalization) (IUIa).
Green	End charge
Blinking green (4s ON – 1s OFF)	Equalization pulse and floating
Green and red blinking together	Connection with CanConsolle or S/S HW-SW.

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**Table 4.1 Standard and Optional Features** 

MODEL	6832RTE								
STANDARD EQUIPMENT									
Platform controls	*								
Base controls	*								
Four-wheel drive	*								
Easy operation 152 cm roll out extension platform	*								
Load sensing system	*								
Tilt sensing system	*								
Multiple wet disc-spring applied hydraulic release brakes	*								
Manual brake release	*								
Wiring for AC outlet	*								
Tilt alarm with drive/lift cutout	*								
Lanyard attachment points	*								
Hinged railing system	*								
Operator horn	*								
Spring loaded full height gate at rear	*								
Forklift pockets, tie down/lifting lugs	*								
Foam filled low profile grip lug tires	*								
Hourmeter	*								
Color coded and numbered wiring system	*								
Hydraulic oil level indicators	*								
OPTIONAL EQUIPMENT	<u></u>								
AGM batteries	*								
Flashing light	*								
Shop air line to platform	*								
Independent leveling hydraulic outriggers	*								
Hybrid Power Pack (HPP)	*								

1124AA\_AS

Tables Section 4

**Table 4.2 Specifications and Features** 

	Model	6832RTE		
Weight*	No Outriggers	4026 kg		
Wei	With Outriggers	4026 kg		
	Width	1.77 m		
Length	No Outriggers	2.72 m		
Len	With Outriggers	3.35 m		
	Platform Size	1.4 m x 2.4 m		
	Working	11.7 m		
Height	Platform Elevated	9.8 m		
Hei	Platform Lowered	2.51 m		
	Drive	9.8 m		
	Normal Drive	5.78 - 6.10 km/h		
Speed	Elevated Drive	0.52 - 0.61 km/h		
Spe	Lift (Rated Load)	37 - 41 sec		
	Lower (Rated Load)	34 - 38 sec		
Tires	Foam-filled	OTR Outrigger - 20.5 x 66 cm		
Gradeability	y (Torque Equivalent To)	45%		

1125AC\_AS

<sup>\*</sup> Weights are approximate; refer to serial nameplate for specific weight.

Section 4 Tables

Table 4.3 Owner's Annual Inspection Record

$\triangle$										
Model Number: Serial Number:								_ ]		
*		20	20	20	20	20	20	20	20	20
**	† P /	SK <b>Y</b> JACK								

1000AB

This decal is located on the scissor assembly. It must be completed after an annual inspection has been completed. Do not use the aerial platform if an inspection has not been recorded in the last 13 months.

	Pictorial	Description
*		Inspection Date
**	† P 🚣	Inspector Signature

Tables Section 4

**Table 4.4 Maximum Platform Capacities (Evenly Distributed)** 

MODEL		т	otal	Exte	Extension		Maximum Wind	Tilt Cutout	Tilt Cutout Setting	
		Capacity	Number of Occupants	Capacity	Number of Occupants	Side Force	Speed	Setting (Degrees)	(Outriggers) (Degrees)	
6832RTE	One Extension	454 kg	2	136 kg	1	400N	12.5 m/s	2.5 x 4.5	1.5 x 1.5	
Platform	404 kg	4	100 kg	'	40014	No Wind	2.5 % 4.5	1.5 % 1.5		
1126AA_AS										

NOTE

Occupants and materials are not to exceed rated load.

Refer to capacity label for additional information and for models equipped with options.

Section 4 Tables

**Table 4.5 Floor Loading Pressure** 

MODEL		Gross Aerial	Total Aerial Platform Load					
		Platform Weight	Wheel/ Outrigger Pad	LCP**	OUP**			
		kg	kg	kPa	kg/m²			
6832RTE on	min*	4026	1810	1450	960			
Tires	max*	4675	1860	1490	1000			
6832RTE on Outrigger Pads	min*	4026	1810	350	780			
	max*	4675	1860	360	820			

1127AB\_AS

- \* min Total aerial platform weight with no options
  - max Aerial platform weight + all options + full capacity
- \*\* LCP Locally Concentrated Pressure is a measure of how hard the aerial platform tire tread presses on the areas in direct contact with the floor. The floor covering (tile, carpet, etc.) must be able to withstand more than the indicated values above.

**OUP – Overall Uniform Pressure** is a measure of the average load the aerial platform imparts on the whole surface directly underneath it. The structure of the operating surface (beams, etc.) must be able to withstand more than the indicated values above.

# NOTE:

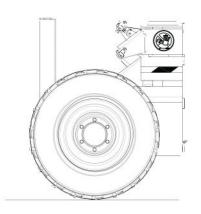
The **LCP** or **OUP** that an individual surface can withstand varies from structure to structure and is generally determined by the engineer or architect for that particular structure.

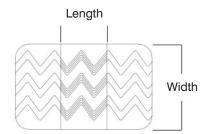
Tables Section 4

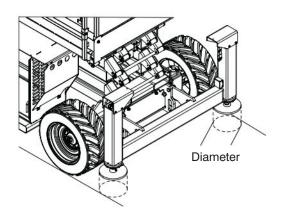
# Floor Loading Pressure

# **Locally Concentrated Pressure (LCP):**

Foot Print Area = Tread Contact Area

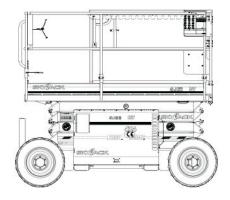


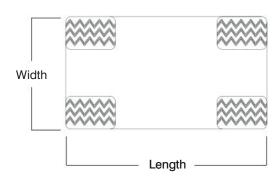


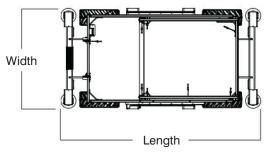


# **Overall Uniform Pressure (OUP):**

Base Area = Length x Width









Intermixing tires of different types or using tires of types other than those originally supplied with this equipment can adversely affect stability. Therefore, replace tires only with the exact Skyjack-approved type. Failure to operate with matched approved tires in good condition may result in death or serious injury.

Section 4 Tables

# **Table 4.6 Operator's Daily Inspection Checklist**



Serial Number:	
Model:	
Hourmeter Reading:	Operator's Name (Printed):
Date:	
Time:	Operator's Signature:
Each item shall be inspected using the appropriate section of the As each item is inspected, check the appropriate box.	e Skyjack operating manual.

P - PASS

F - FAIL

R - REPAIRED

NA - NOT APPLICABLE

	N/A	Р	F	R		N/A	P	F	R
Visual and Daily Maintenance Inspection	ons			_	Scissor Assembly				
Labels					Scissor Bumpers				
Electrical					Rollers				
Limit Switches					Lift Cylinder(s)				
Hydraulic					Base				
Engine Compartment					Base Weldment				П
Main Power Disconnect Switch					Wheel/Tire Assembly				
Base Control Switches					Steer Cylinder Assembly				
Load/Tilt Sensor					Splitter Manifold				Г
Battery		2			Tie Rod				
Hydraulic Pump			3		Emergency Lowering Access Rod				
Radiator					Ladder				П
Muffler and Exhaust					Hydraulic Outriggers (If Equipped)				П
Engine Pivot Tray					Function Tests				
Engine Oil Level					Test Main Power Disconnect Switch				
Fuel Shut-off Valve		į.			Base Control Console				
Engine Air Filter					Test Platform/Engine/Base Key Switch				
Fuel Leaks					Test Emergency Stop				
Hydraulic/Fuel Compartment					Test Platform Raise/Lower Switch				
Hydraulic Tank					Test Emergency Lowering				
Hydraulic Oil					Test Free-wheeling				П
Hydraulic Return Filter					Platform Control Console				
Fuel Tank					Test Emergency Stop				
Fuel Leaks					Test Enable Trigger Switch				
Main Manifold					Test Platform Raising/Lowering				
Gear Type Flow Divider					Test Lowering Warning				
Platform Assembly					Test Steering				
Anchorages					Test Driving				
AC Outlet on Platform					Test Elevated Drive Speed				
Manuals		i.	į		Test Brakes				
Platform Control Console					Test Horn			j	
Lifting Mechanism					Test Hydraulic Outriggers (If Equipped)				
Maintenance Support								1128	AA A

# Note:

Make a copy of this page or visit the Skyjack web site: www.skyjack.com for a printable copy.

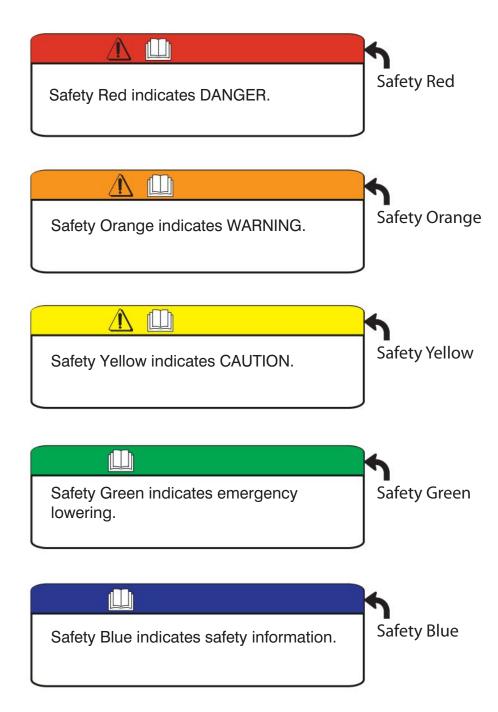
#### NOTE

The owner's annual inspection decal must be completed after an annual inspection has been completed.



Notes	
	_
	_
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	_
	_

# **Label Legend**



Labels Section 5

# Labels - Model 6832RTE

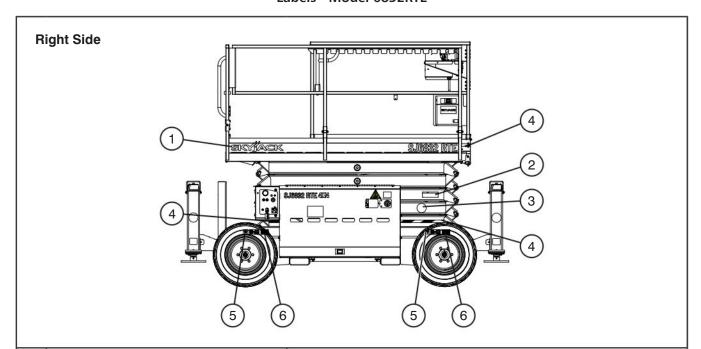
# Battery/Electrical Compartment 1

No.	Label Pictorial	Description
5		Base Control Console
1	AUTO AUTO MALION	H: Accumulated operating time.
		出 :Battery level.
		Error codes. Refer to Service manual for error codes.
		Select " " on position to start HPP (if equipped). Select "O" off position to turn off HPP.
		Select "AUTO" position to activate HPP in automatic mode. Select "M" position to activate HPP in manual mode.
		Push " to reset ground circuit breaker.
		Push " to reset power circuit breaker.
		Push " to disable controls (Emergency Stop).
		Light indicates controls enabled.
		Read operating manual.
		Select "ଛੈ " to raise or "█ " to lower platform.
		Select " a " to enable platform controls-or " a " to enable base control console.
		Select "O" off position to disconnect power to all circuits. Select "I" on position to operate any circuit.

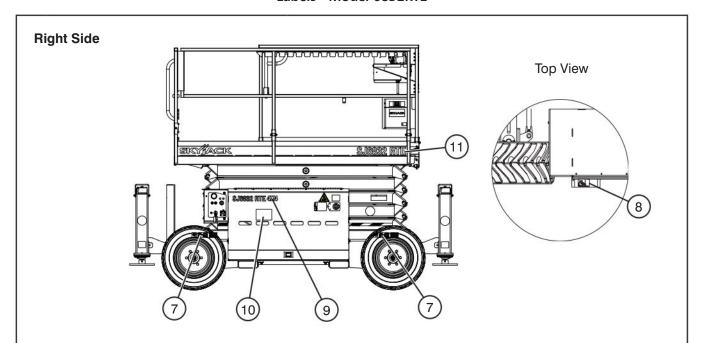
### Labels - Model 6832RTE

# Battery/Electrical Compartment 2 1 3

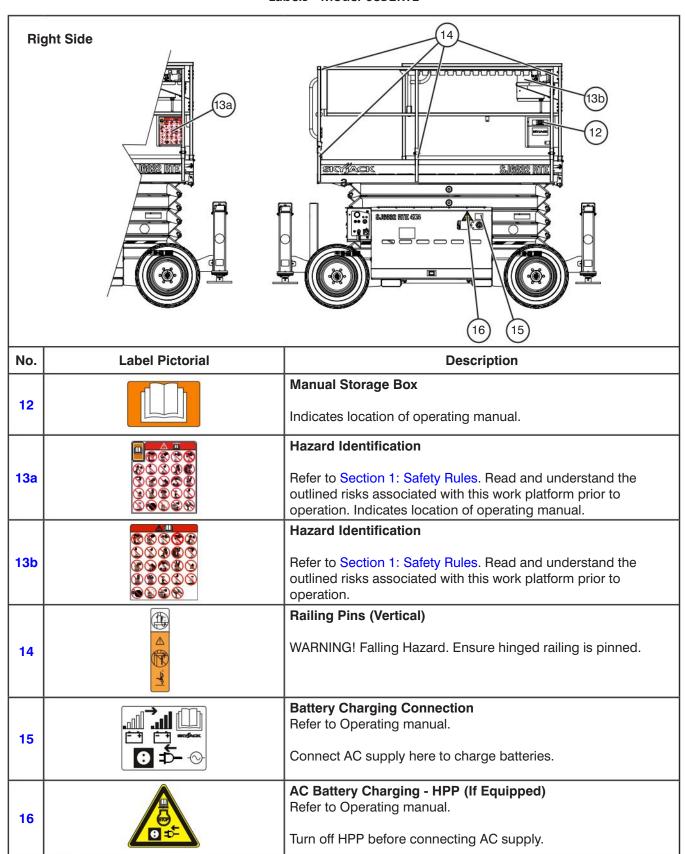
No.	Label Pictorial	Description
1	48V	Warning - Electrical Shock Stay away. High voltage (48V).
2		No Pressure Washer  Do not use pressure washer.
3		Battery Cover Lock  Turn knob "To" to the left to unlock battery tray cover.  Turn knob "To" to the right to lock battery tray cover in place.

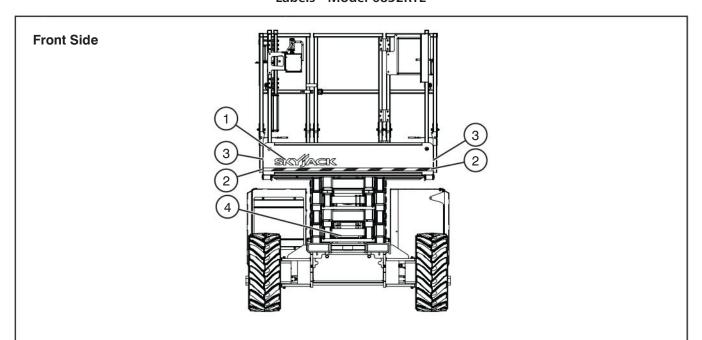


No.	Label Pictorial	Description
1	SKYJACK	Skyjack Logo Skyjack
2	Notes   D.N	Annual Inspection  Ensure that work platform has received annual inspection prior to operation.
3		Keep Clear Keep clear. Stay away from MEWP when in operation.
4		Caution Tape Stripe Caution stripe
5		Foam-filled Tire Indicates foam-filled tire only.
6		Wheel Load Indicates rated wheel load.

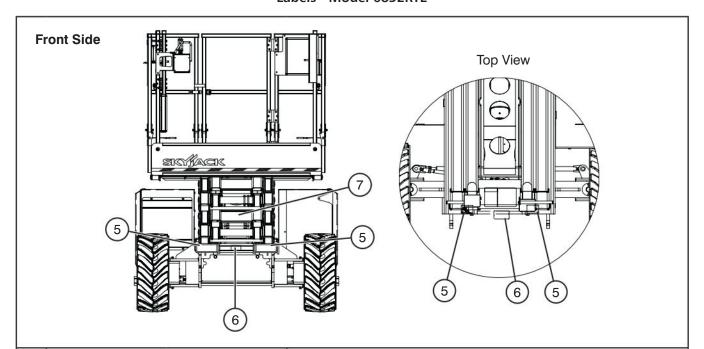


No.	Label Pictorial	Description
7		Wheel Specifications  Refer to manual for wheel type, offset, pressure and torque.
8		Forklift Lifting Location  Insert fork fully into forklift lifting location to lift aerial platform.
9	SJ6832 RTE 4X4	Model Number*  Product Identifier  *Model number will vary, may not be as shown.
10	Clear than Repair power for Copyrights, Non-Invalidate Perke Tiest Technology Exercises West Public technology Exercises West Public technology Exercises West Public technology United We	EWPA Clearance Requirements  Clearance requirements for operating non-insulated mobile plant, including elevating work platforms near power lines.
11	SJ6832 RTE	Model Number*  Product Identifier  *Model number will vary, may not be as shown.

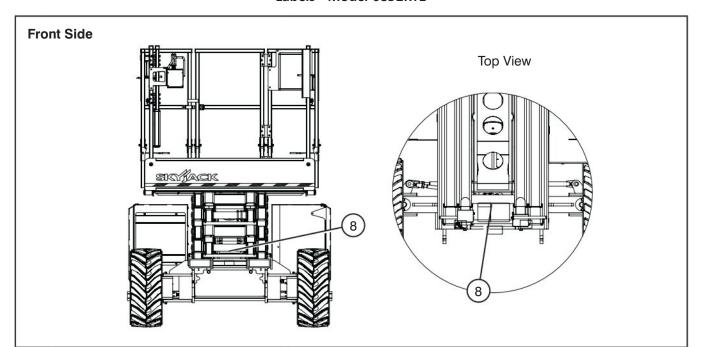




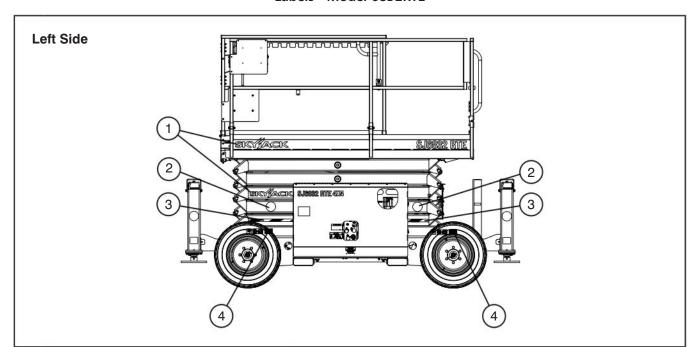
No.	Label Pictorial	Description
1	SKYJACK	Skyjack Logo Skyjack
2		Caution Tape Stripe Caution stripe
3	× 1 8	Fall Protection Anchorage  Rated for one (1) person per anchorage.
4		Maintenance Support  Deploy maintenance support here.



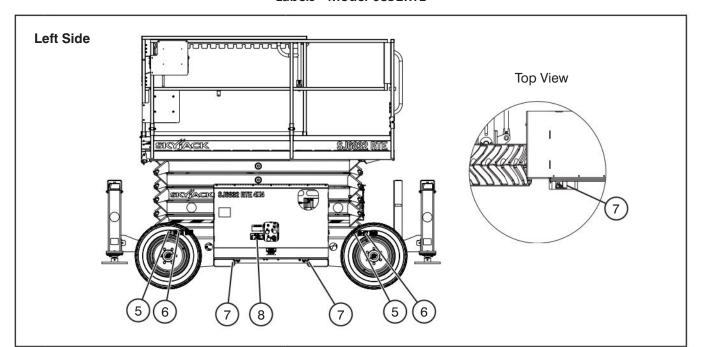
No.	Label F	Pictorial	Description
5		<u>5</u> L	Forklift Lifting Location Insert fork fully into forklift lifting location to lift aerial platform.
6		<b>? y</b>	Lift and Tie Down Points  Only use these points for lifting or tying down.
7	They stiff make suppressed the following authorities. Sickly Section 1995.  Show in a proper Section 1995.  Suppressed the suppressed suppressed to the suppressed suppressed to the suppressed suppre	A change Pagarer (member on the find off the life of the Control of the life of t	Serial Plate Product identification and specifications



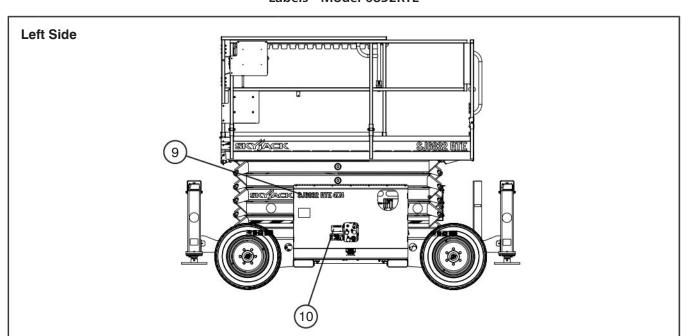
No.	Label Pictorial	Description
		How to engage maintenance support for inspection or maintenance.  Refer to Operating manual.
		Remove all material from platform.
		Raise platform until there is adequate clearance to swing down maintenance support.
		3. Swing maintenance support down from storage bracket into a vertical position. Lower platform until the bottom end of maintenance support rests on the lower cross bar.
8		4. Maintenance support is now secured.  (A) Turn main power disconnect switch to off position.  (B) Perform inspection/maintenance.
		5. Turn main power disconnect switch to on position.
		6. Raise platform until there is adequate clearance to swing up maintenance support.
		7. Swing maintenance support up and place into storage bracket.
		8. Ensure platform is fully lowered.



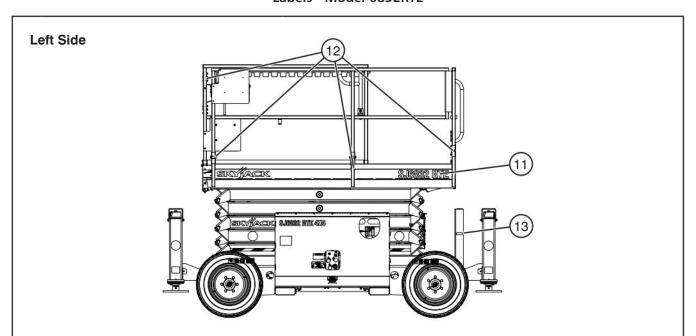
No.	Label Pictorial	Description
1	SKYJACK	Skyjack Logo Skyjack
2		Keep Clear Keep clear. Stay away from MEWP when in operation.
3		Caution Tape Stripe Caution stripe
4		Foam-filled Tire Indicates foam-filled tire only.



No.	Label Pictorial	Description
5		Wheel Load Indicates rated wheel load.
6		Wheel Specifications  Refer to manual for wheel type, offset, pressure and torque.
7		Forklift Lifting Location  Insert fork fully into forklift lifting location to lift aerial platform.
8		Emergency Lowering Procedure Refer to Operating manual.  1. Turn main power disconnect switch to off position.  2. To open the lift cylinder holding valves located at the bottom of each cylinder:  if higher reach required, use emergency lowering rod located on the top of the base to:  (A) push (B) turn knurled knob counterclockwise.  3. To lower the platform, pull out emergency lowering valve located on the outside of the motor/hydraulic tray.

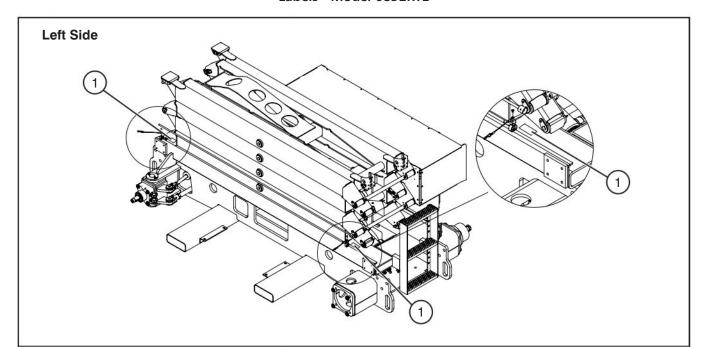


No.	Label Pictorial	Description
9	SJ6332 RTE 4X4	Model Number*  Product Identifier *Model number will vary, may not be as shown.
10		<ol> <li>Winching/Towing/Pushing Procedure Refer to Operating manual.</li> <li>Block or chock wheels to prevent aerial platform from rolling.</li> <li>Turn main power disconnect switch to off position.</li> <li>Locate free-wheeling valve, brake valve, and pump.</li> <li>Open free-wheeling valve by turning it counterclockwise.</li> <li>Push in black knob.</li> <li>Pump by pushing red knob in and out until firm resistance is felt. Brake is now released.</li> <li>Push/tow/winch to desired location.</li> <li>Block or chock wheels to prevent aerial platform from rolling.</li> <li>Reset brake by pulling out black knob.</li> <li>Close free-wheeling valve by turning it clockwise.</li> </ol>

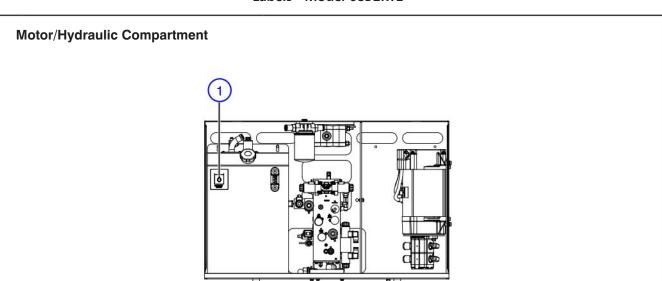


No.	Label Pictorial	Description
11	SJ6832 RTE	Model Number*  Product Identifier *Model number will vary, may not be as shown.
12		Railing Pins (Vertical)  WARNING! Falling Hazard. Ensure hinged railing is pinned.
13	PSI BAR BAR	Connect Air Supply  Connect platform air supply here.

Labels - Model 6832RTE



No.	Label Pictorial	Description
1		Emergency Lowering Access Rod Secure emergency lowering access rod in place.

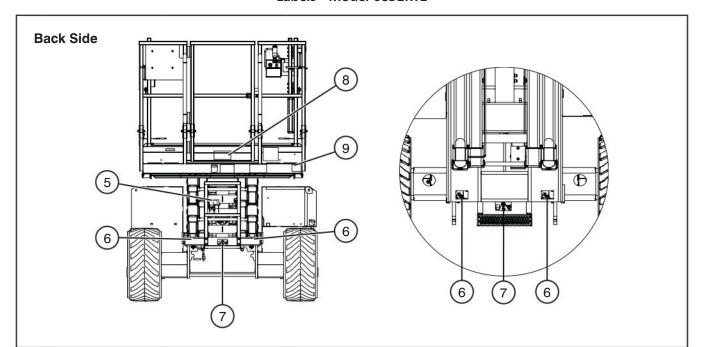


No.	Label Pictorial	Description
1		Hydraulic Oil ATF Dexron III  Replace hydraulic fluid with ATF Dexron III only.

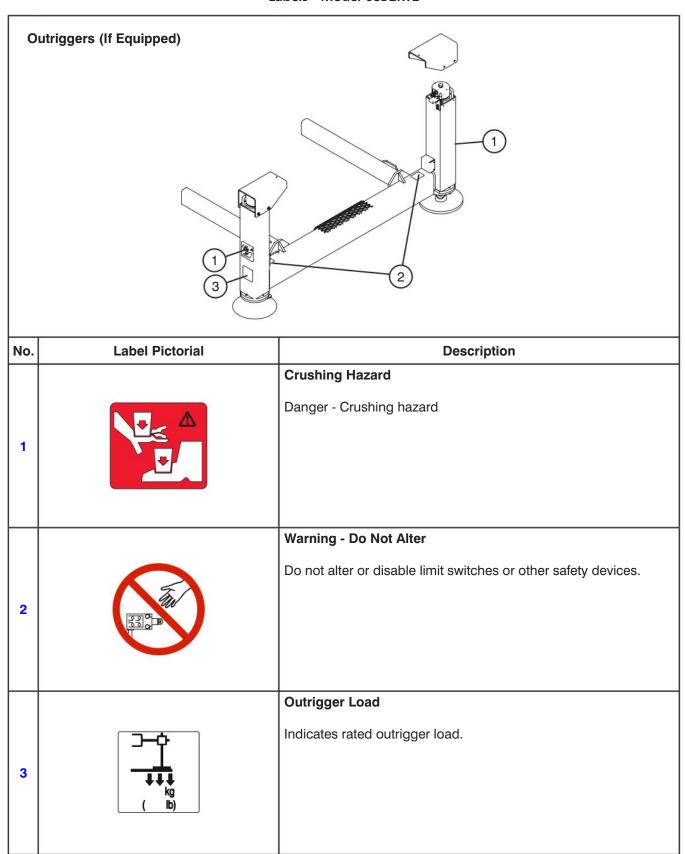
### Labels - Model 6832RTE

# Back Side

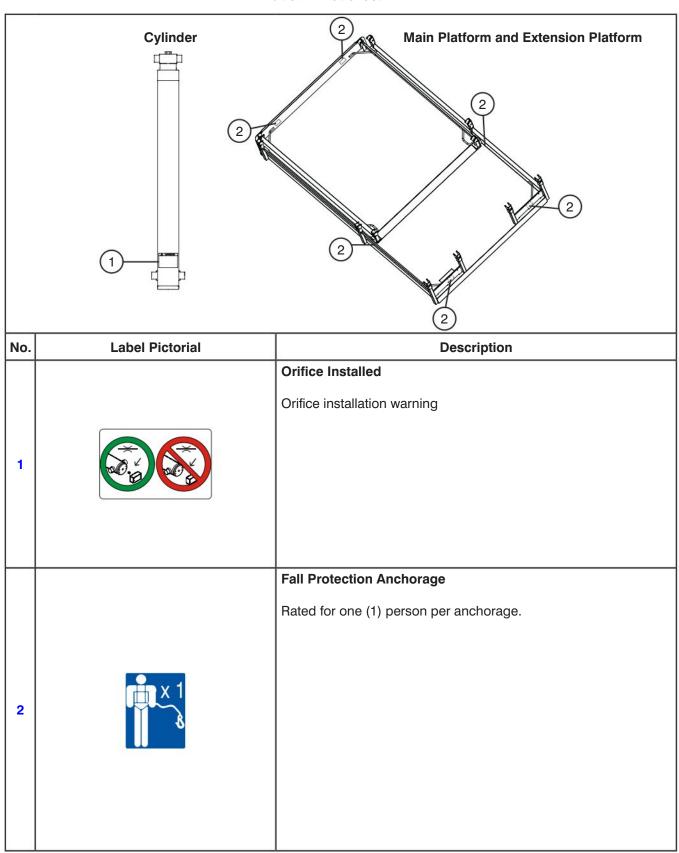
No.	Label Pictorial	Description	
140.	Edder i lotoriai	·	
1	N ( lb) ( km/h) ( mph)	Horizontal Load Rating  Apply no more than the indicated side load. Operate below indicated wind speed only.	
		Connect Air Supply	
2	PSI BAR	Connect platform air supply here.	
		Operator's Daily Inspection	
3	□ F N eh	Refer to the Operating manual. Perform visual inspection and function tests at the beginning of each shift. Refer to Section 4: Operator's Daily Inspection Checklist.	
		EWPA Clearance Requirements	
4	Charanson Respirements for Operating New Institute Models of Next Institute Character (Next Inst	Clearance requirements for operating non-insulated mobile plant, including elevating work platforms near power lines.	



No.	Label Pictorial	Description		
5	[33]3-A	Warning - Do Not Alter  Do not alter or disable limit switches or other safety devices.		
6		Forklift Lifting Location  Insert fork fully into forklift lifting location to lift aerial platform.		
7	<b>3</b>	Lift and Tie Down Points  Only use these points for lifting or tying down.		
8		Platform Capacity  Platform capacity label for 6832RT  Rated work load in each configuration is as shown. Rated work load includes the weight of both personnel and material. Maximum number of people in each configuration is as shown. Do not exceed total weight or maximum number of people. Load platform uniformly.		
9		No Jewelry  Caution - Do not wear jewelry.		

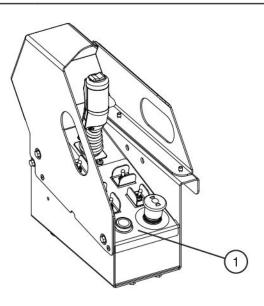


Labels - Model 6832RTE



### Labels - Model 6832RTE

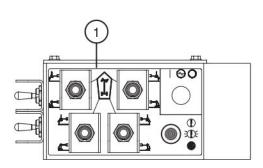
### **Platform Control Console**

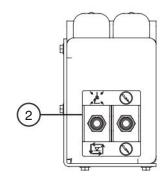


No.	Label Pictorial	Description	
1	SKYACK  O D  O D  O D  O D  O D  O D  O D  O	Squeeze "I" trigger to enable controller.  Operate "T" rocker switch to steer.  Move controller forward "I" to raise or backward "I" to lower platform.  Move controller forward "I" to drive forward or backward "I" to drive reverse.  Select "I" on position to start HPP. Select "O" off position to turn off HPP.  Select either "I drive mode with low speed (high torque) or "I drive mode with high speed (low torque).  Select either "I lift mode or "I drive mode.  Push "I to sound horn.  Push "I to disable controls (Emergency Stop).  Light indicates controls enabled.  Read "I operating manual.	

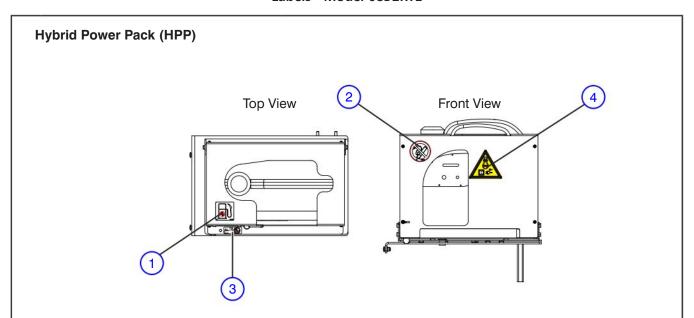
### Labels - Model 6832RTE

# **Outrigger Control Console (If Equipped)**





No.	Label Pictorial Description		
1		Select " retract or " extend for each outrigger.  Indicates leveling system status:  Off: The outriggers are fully retracted.  Flashing Rapidly: The outriggers are extending but the platform is not level.  Flashing: The outriggers are extended but the platform is not yet level.  Solid: The outriggers are extended and the platform is level.	
2		Select "** to retract all outriggers or "** to extend all outriggers with automatic leveling.  Select "o" to enable manual or automatic outrigger controls.	



No.	Label Pictorial	Description	
1	(R)	Unleaded Gasoline Use only unleaded gasoline with an octane rating of 87.	
2		No Smoking  Do not smoke near this location.	
3		Lock Pin In Place  Ensure HPP is locked in place by inserting the locking pin.	
4		AC Battery Charging - HPP (If Equipped) Refer to Operating manual. Turn off HPP before connecting AC supply.	

Section 6 Skyjack Features

# 6.0 Skyjack Features

Your Skyjack machine may be equipped with the following features:



At the heart of every Skyjack machine, proven and simplistic control systems using Skyjack's colour coded and numbered wiring system make our machines the easiest to trouble shoot and repair. – Black #14 is for the lift function on a 3219, and it is lift on a 63AJ. Using an analog based control system allows Skyjack AWPs to operate using a simplified system with fewer and less expensive components – less maintenance and lower costs.



Having equipment with features and functionality that allow you and your customers to do more is a vital part of the utilization equation. Skyjack offers a range of accessory products to further expand a given products adaptability and your power to offer a truly flexible rental choice.

Notes

