



OPERATING MANUAL (AS)

ROUGH TERRAIN SCISSORS

MODELS **SJ6826 RT** **SJ6832 RT**

159172AC-A January 2018

SKYJACK

This manual is based on Serial Number(s):

SJ 68XXRT 37 004 671 - 37 006 145

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

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



WARNING

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



CAUTION

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.

Table of Contents

Section 1 - About Your MEWP	5
Read and Heed	5
Safety Rules.....	6
Section 2 - Familiarization	11
2.1 Familiarization of SJ68RT Series.....	11
2.2 Component Identification	12
2.3 Visual & Daily Maintenance Inspections	16
2.4 Function Tests.....	25
2.5 Winching and Towing Procedure	34
2.6 Emergency Lowering Procedure	36
Section 3 - Operation	37
3.1 General	37
3.2 Major Components.....	38
3.3 Major Assemblies	39
3.4 Serial Number Nameplate.....	39
3.5 Component Identification	40
3.6 Component Identification (Optional Equipment/Attachments)	42
3.7 Operator's Responsibility	43
3.8 Start Operation	44
3.9 Refueling Procedure.....	51
3.10 Loading/Unloading	53
3.11 Guardrail Folding Procedure.....	56
3.12 Moving the MEWP through a Doorway.....	58
3.13 Maintenance Support Procedure	60
Section 4 - Tables	61
Table 4.1 Standard and Optional Features	61
Table 4.2 Specifications and Features	62
Table 4.3 Owner's Annual Inspection Record.....	63
Table 4.4 Maximum Platform Capacities (Evenly Distributed).....	64
Table 4.5 Floor Loading Pressure	65
Table 4.6 Maintenance and Inspection Schedule.....	67
Table 4.7 Operator's Checklist.....	68
Section 5 - Labels	69

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 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 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

☎ : 61 (0) 28786 3200

📠 : 61 (0) 28786 3222

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.



WARNING

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 (Phase to Phase)	Minimum Safe Approach Distance (Meters)	
	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!

1013AA

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** emergency main power disconnect switch “○” 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. 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, ascend or descend grades not exceeding those listed in Table 4.2.



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.



- **DO 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. Be aware of overhead 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.

Safety Precautions (Continued)

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

- **ENSURE ALL** tires are in good condition and lug nuts are properly tightened.

- **DO NOT** use with improperly inflated/damaged tires or wheels. Refer to [Section 2: Wheel/Tire Assembly](#).



- **DO NOT** exceed the rated capacity of the MEWP.



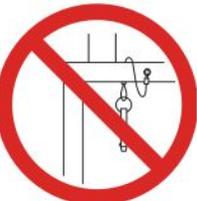
- **DO NOT** distribute load unevenly.



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



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



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



- **DO NOT** leave MEWP unattended with key in key switch.



- **DO NOT** use under influence of alcohol or drugs.



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

- **DO NOT** position the MEWP against another object to steady the platform.

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

- **STUNT** driving and horseplay are prohibited.

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 SJ68RT Series

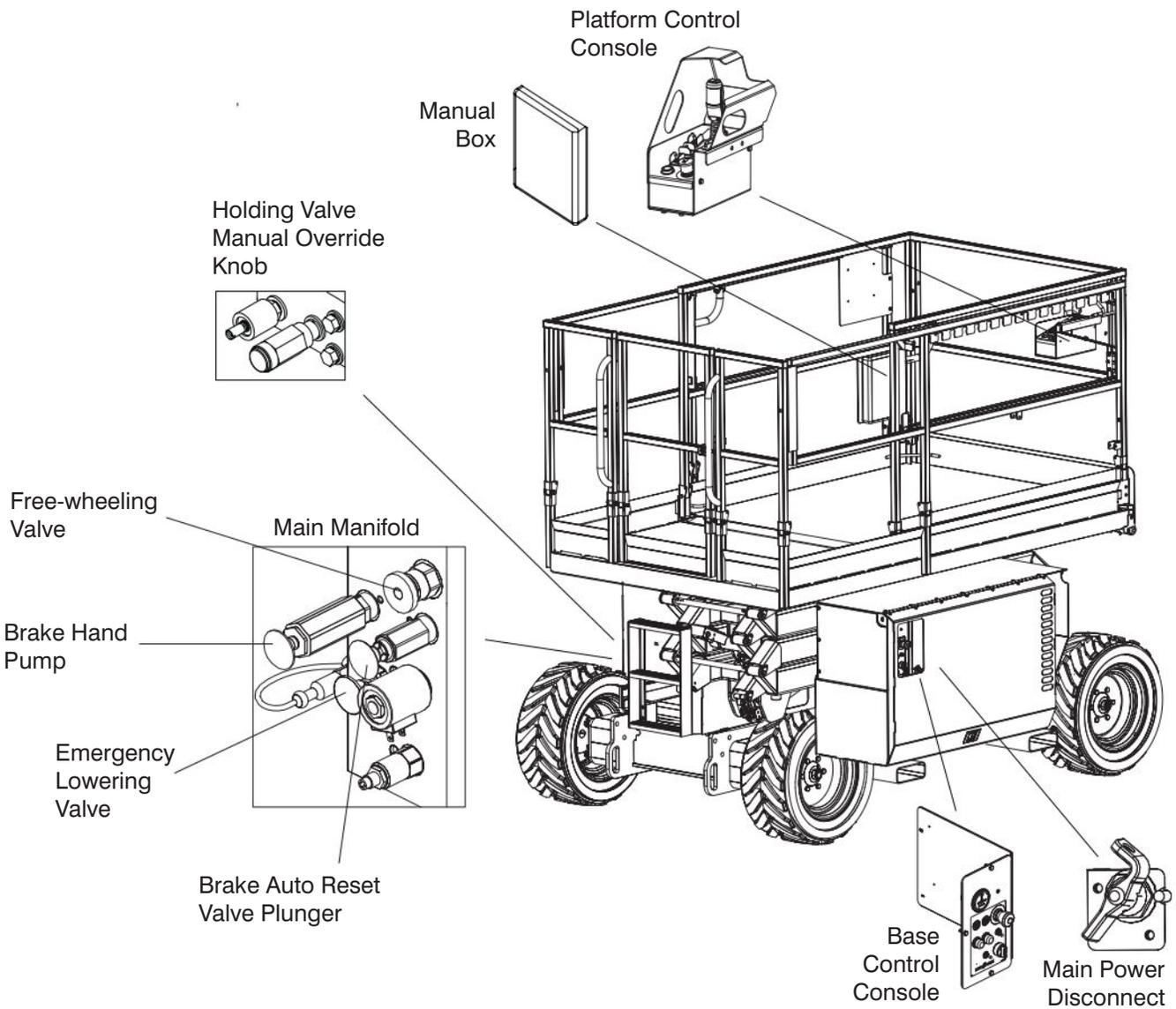


WARNING

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.



FAMILIARIZATION

2.2 Component Identification

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

2.2-1 Main Power Disconnect Switch

This switch is located at the left side of the engine compartment.

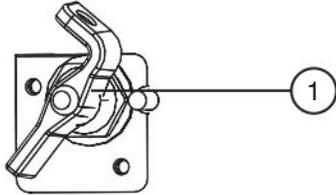


Figure 2-1. Main Power Disconnect Switch

1. **Main Power Disconnect Switch** - This switch, when in “○” off position, disconnects power to all circuits. Switch must be in “|” on position to operate any circuit. Turn switch “○” off when transporting MEWP.

2.2-2 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.

2.2-3 Tilt Alarm

The MEWP is equipped with a device which senses when the MEWP is on a slope in any direction. It is designed to alarm and prevent driving or lifting if the slope exceeds the limits specified in

[Table 4.4.](#)

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.

2.2-4 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.
- **If the MEWP during the operation comes in 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.](#)

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 Brake System

The brake system is located on the main manifold in the hydraulic/fuel 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:

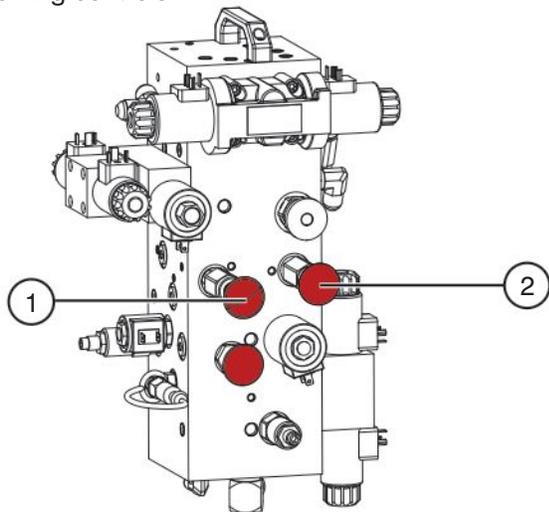


Figure 2-2. Brake System

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

2.2-6 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:

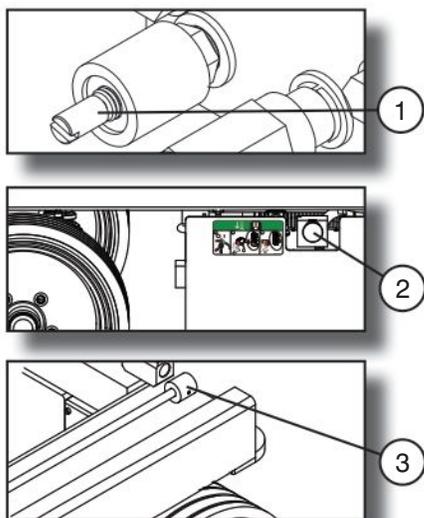


Figure 2-3. Emergency Lowering System

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

2.2-7 Free-wheeling Valve

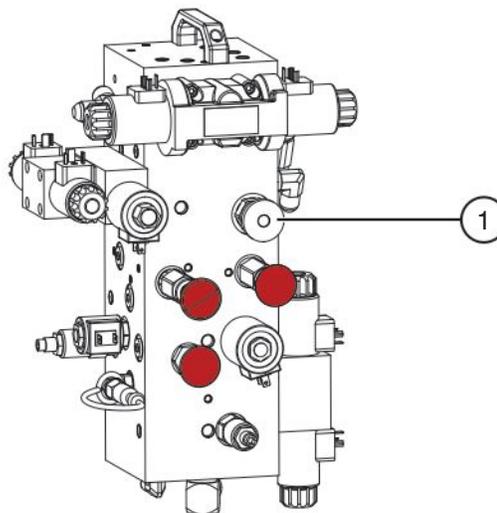


Figure 2-4. Free-wheeling Valve

1. **Free-wheeling Valve** - The free-wheeling valve is located on the main manifold in the hydraulic/fuel 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 engine compartment. It contains the following controls:

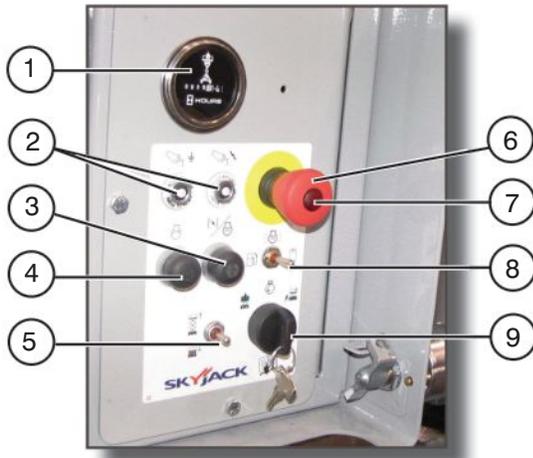


Figure 2-5. Base Control Console - Dual Fuel

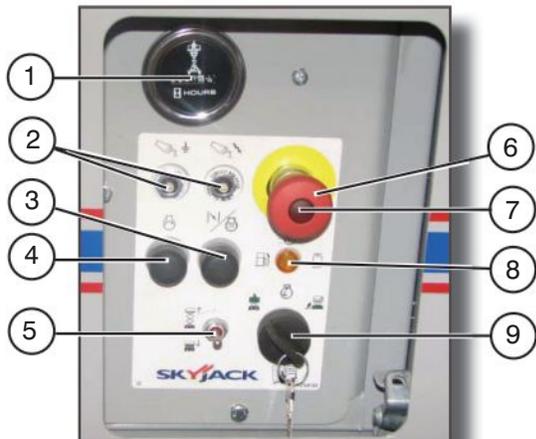


Figure 2-6. Base Control Console - Diesel

1. **Hourmeter** - This gauge records accumulated operating time of engine.
2. **Circuit Breakers** - In the event of a power overload or positive circuit grounding, the circuit breaker pops out. Push breaker back in to reset.
3. **Choke Pushbutton (Dual Fuel)** - This pushbutton switch aids in starting a cold dual-fuel engine.

Glow Plug Pushbutton (Diesel) - This pushbutton switch energizes the glow plugs to aid in starting a cold diesel engine.

4. **Engine Start Pushbutton** - This pushbutton “” energizes the engine starter motor.
5. **Platform Raise/Lower Switch** - This switch controls “” raising or “” lowering of platform.
6. **Emergency Stop Button** - This button “”, when depressed, disconnects power to control circuit and shuts engine off.
7. **Power Indicator Light** - When the emergency stop button on the base control console is pulled out, this light glows.

Fuel Switch (Dual Fuel) - Used to switch between “” liquid propane gas and “” gasoline.
8. **Glow Plug Indicator Light (Diesel)** - This red lamp “” illuminates until the glow plugs have completed their timed heating cycle. When the lamp goes out, the engine is ready to be started.
9. **Platform/Engine/Base Key Switch** - This three-way selector switch allows the operator to turn the “” engine in an idling mode or to activate either the “” base or “” platform controls.

2.2-9 Platform Control Console

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

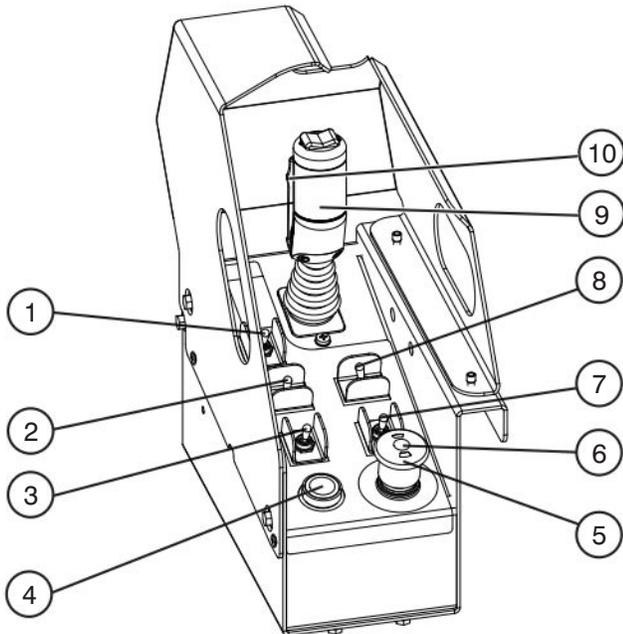


Figure 2-7. Platform Control Console

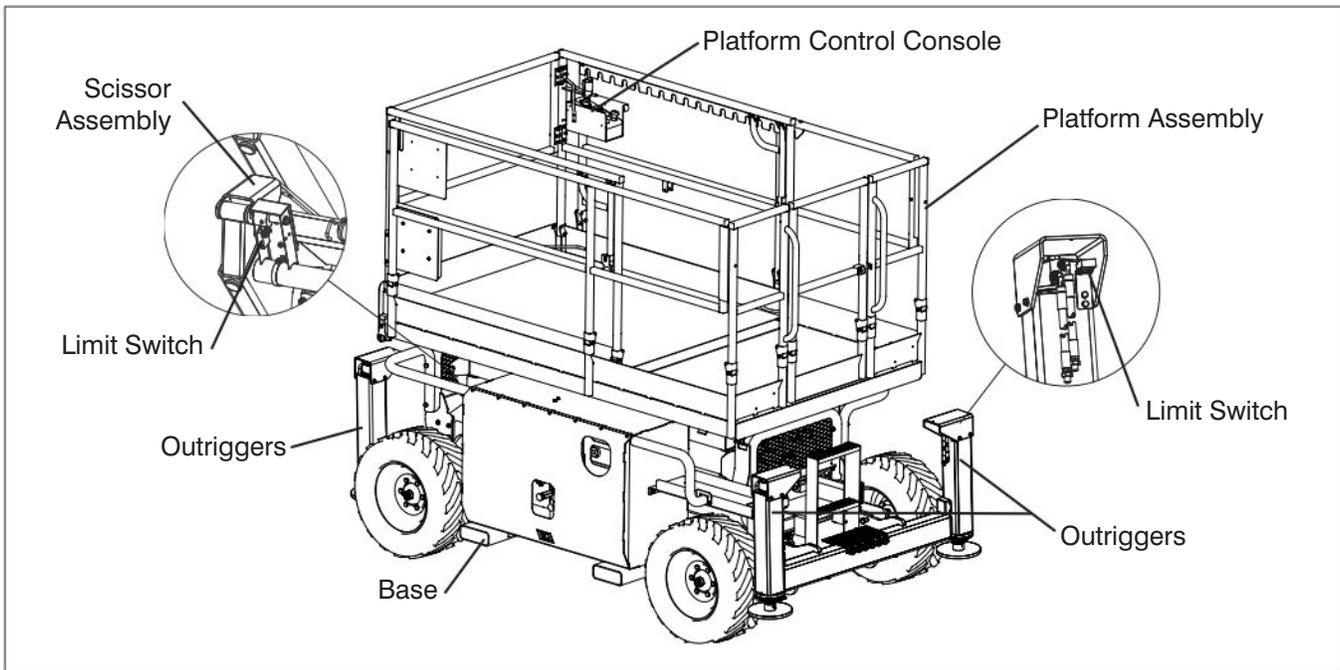
1. **Torque Switch** - This selector switch, when in “” low speed position, it allows drive functions to operate at low speed and maximum torque when climbing grades and on rough terrain. When in “” high speed position, it allows drive functions to operate at high speed with minimum torque.
2. **Lift/Drive Switch** - Selecting “” lift position energizes the lift circuit. Selecting “” drive position energizes the drive circuit.
3. **Engine Start Switch** - This “” switch energizes the engine starter motor.

NOTE

The engine start switch is interlocked with the oil pressure switch. If engine stalls or does not start immediately, this button will not work for a few seconds while oil pressure bleeds off.

4. **Horn Pushbutton** - This “” pushbutton sounds an automotive-type horn.

5. **Emergency Stop Button** - This button “”, when depressed, disconnects power to the control circuit.
6. **Power Indicator Light** - This light glows when “” platform is selected from the platform/engine/base key switch on the base control console. It also glows when both emergency stop buttons on the platform control console and the base control console are pulled out. When the light is flashing, it signals an overload function. Refer to [Section 2.2-4](#).
7. **Choke Switch (Dual Fuel)** - This switch sets the “” choke for starting a cold gasoline/propane engine.
Glow Plug Switch (Diesel) - This switch energizes the “” glow plugs to aid in starting a cold diesel engine.
8. **Low/High Throttle Switch** - This switch allows selection between “” low and “” high engine throttle speeds.
9. **Lift/Drive/Steer Controller** - This one-hand lever controls lift/drive and steer motions. Internal springs return it to neutral when controller is released. The rocker switch on top of controller handle controls steering function.
10. **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.



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.



WARNING

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](#) section 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
- engine compartment electrical panel
- engine wiring harness
- hydraulic/electrical wiring harnesses

2.3-3 Limit Switches

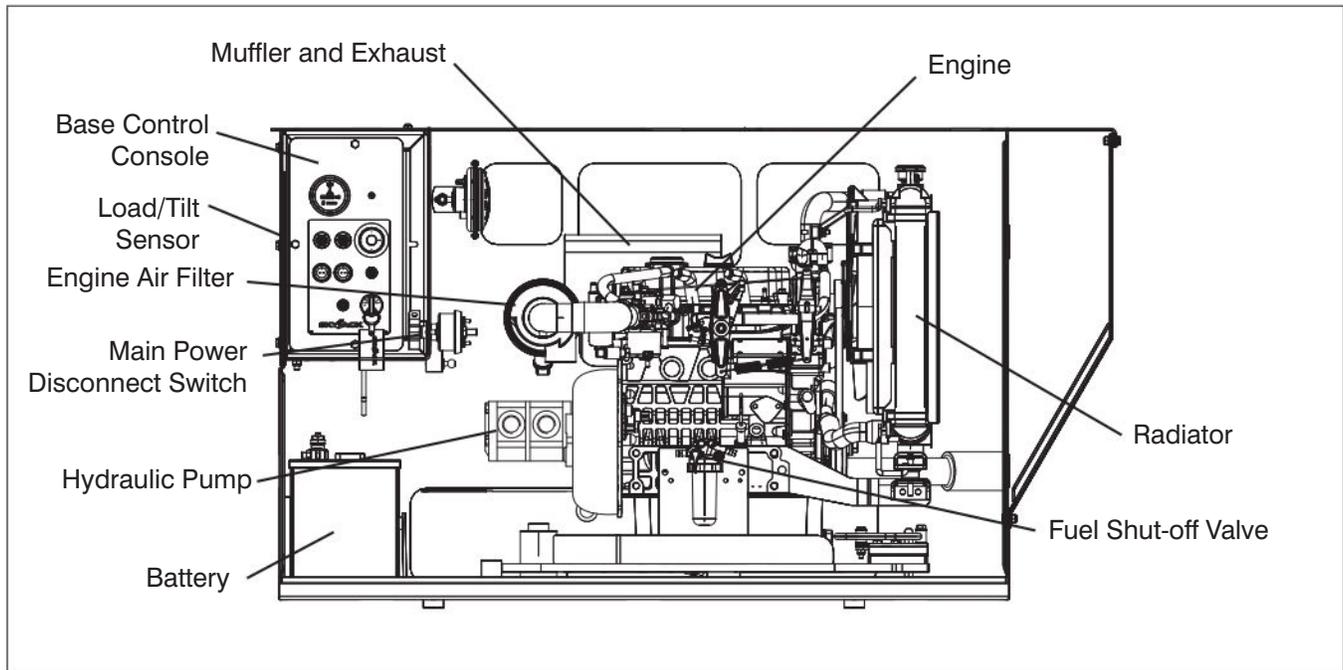
Ensure limit switches are properly secured with no signs of visible damage and movement is not obstructed.

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
- engine compartment fittings, hoses, main pump, and filter
- all hydraulic cylinders
- all hydraulic manifolds
- the underside of the base
- ground area under the MEWP outriggers



2.3-5 Engine Compartment

- Ensure compartment latch is secure and in proper working order.
- **Main Power Disconnect Switch**
 - Turn main power disconnect switch to “○” 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

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



WARNING

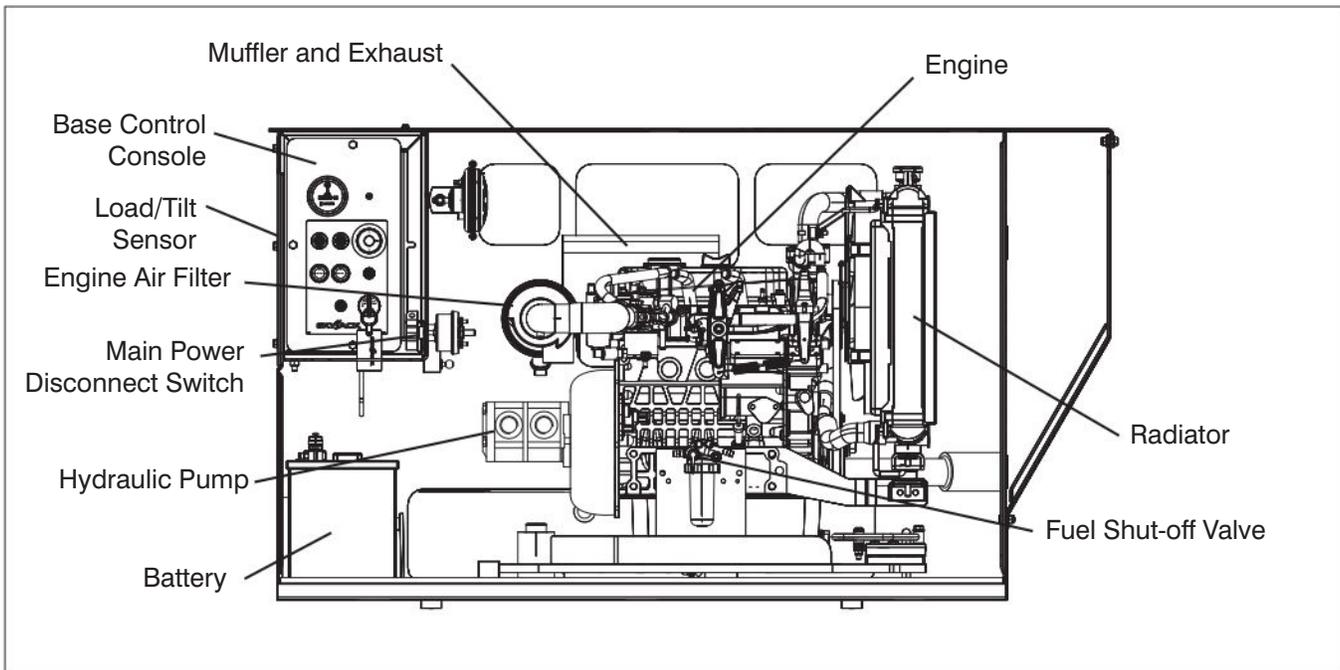
Explosion hazard. Keep flames and sparks away. Do not smoke near batteries.



WARNING

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.
- **Radiator**
 - Ensure radiator is secure.
 - Ensure there are no loose or missing parts and there is no visible damage.
 - Check coolant level and add as needed.
- **Muffler and Exhaust**
 - Ensure muffler and exhaust system are properly secured, with no evidence of damage.
- **Engine Pivot Tray**
 - Ensure there are no loose or missing parts and no visible damage to the engine pivot tray. Ensure that both tray-securing bolts are in place.
- **Engine Oil Level**
 - Maintaining the engine components is essential to good performance and service life of the MEWP.



WARNING

Beware of hot engine components.

Check oil level on dipstick

- Oil level should be in the “safe” zone. Add oil as needed.

• **Fuel Shut-off Valve**

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

• **Engine Air Filter**

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

• **Fuel Leaks**

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

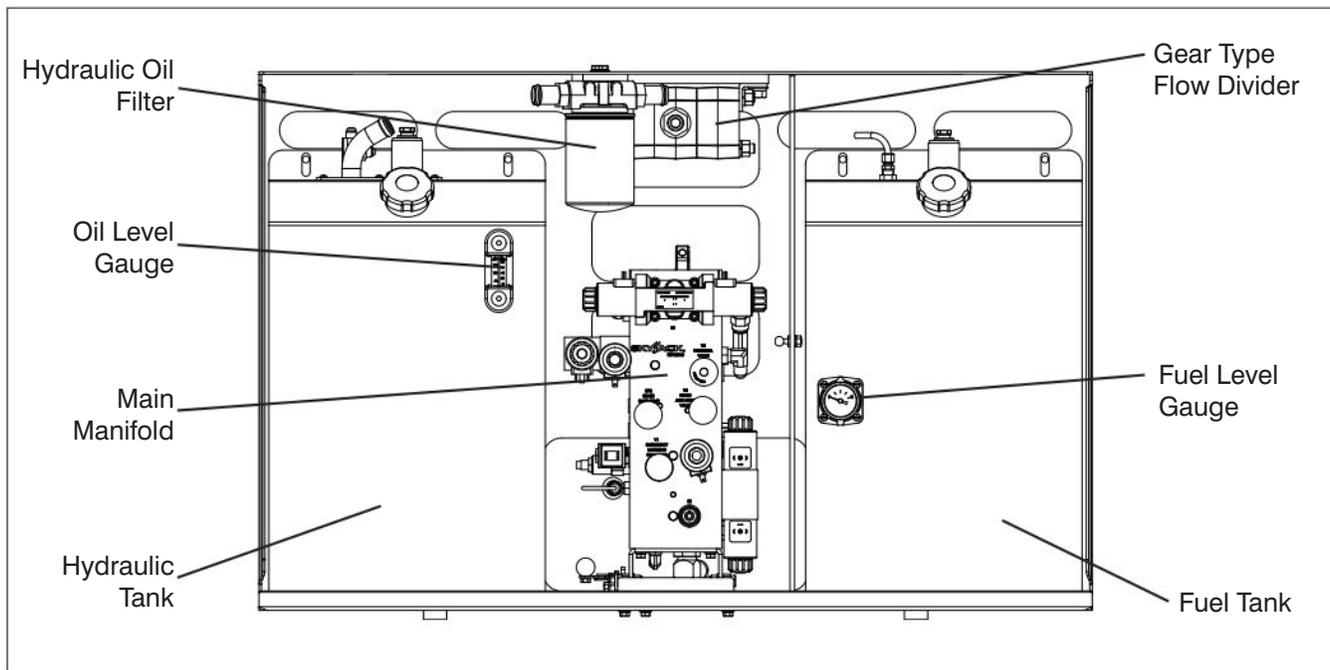


DANGER

Engine 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.

Perform a visual inspection around the following areas:

- hoses and fittings
- fuel pump
- fuel filter



2.3-6 Hydraulic/Fuel 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.

• **Fuel Tank**

IMPORTANT
 Before using your MEWP ensure there is enough fuel for expected use.

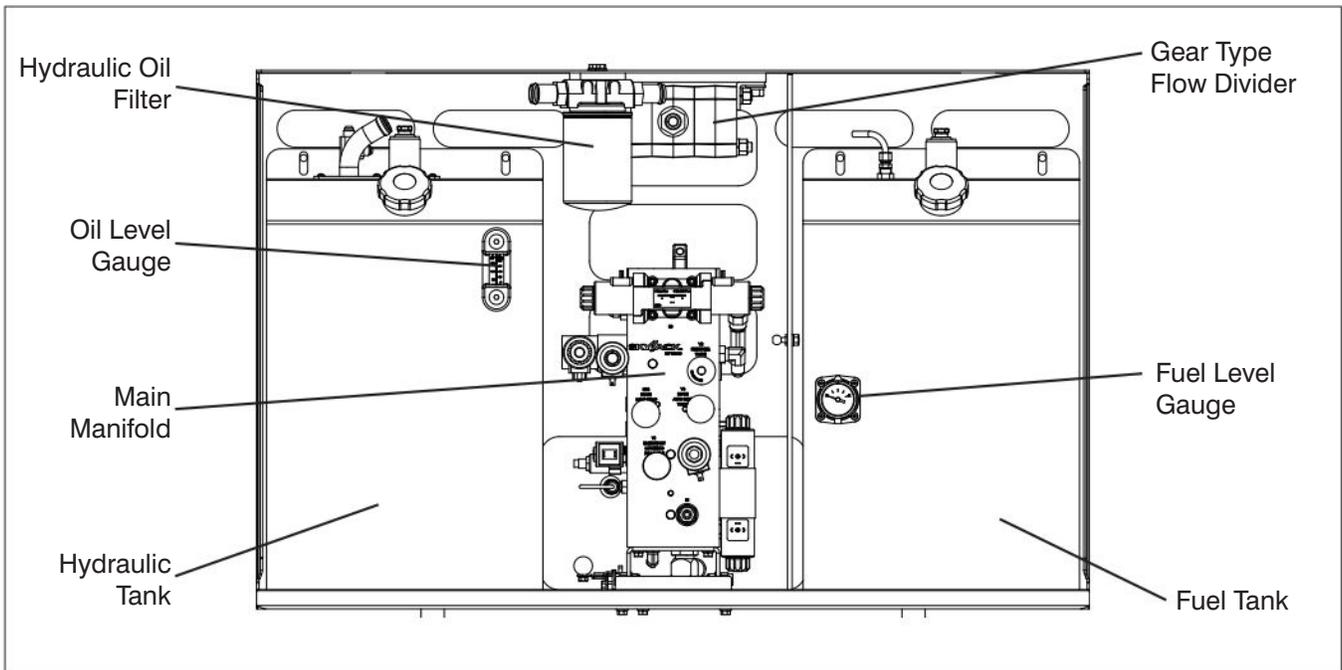
- Ensure fuel filler cap is secure.
- Ensure tank shows no visible damage and no evidence of fuel leakage.
- **Fuel Leaks**
 Failure to detect and correct fuel leaks will result in an unsafe condition. An explosion or fuel fire may cause death or serious injury.

 **DANGER**

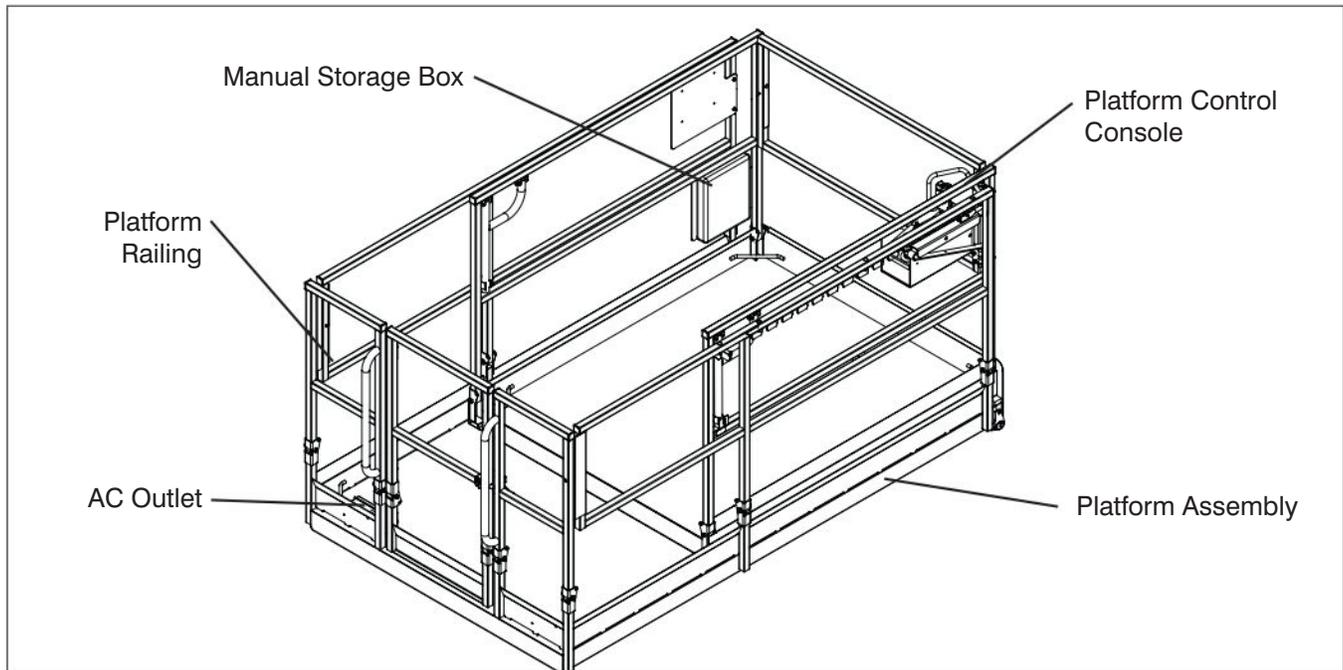
Engine fuels are combustible. Inspect the MEWP in an open, well-ventilated area away from heaters, sparks and flames. Always have an approved fire extinguisher within easy reach.

Perform a visual inspection around the following areas:

- fuel tank
- hoses and fittings



- **Main Manifold**
 - Ensure all fittings and hoses are properly tightened and there is no evidence of hydraulic leakage. Pull and tilt main manifold to check thoroughly.
 - 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



WARNING

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

1. Use the ladder of MEWP to access 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 (if equipped) is in good working order and automatically closes and latches.
- **Anchorage**
 - Ensure anchorages are secure and have 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**

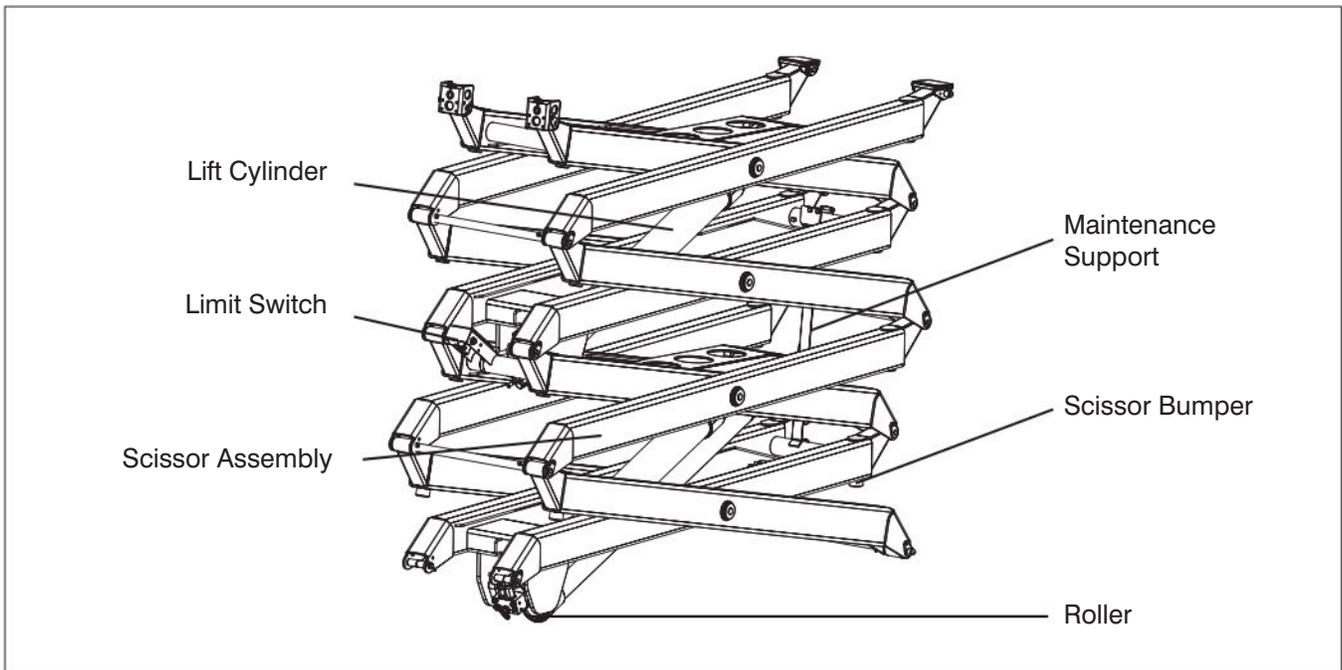
- Ensure all switches and controller are returned to neutral and are properly secured.
- Ensure there are no loose or missing parts and there is no visible damage.



WARNING

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

1. Raise the platform (refer to [Section 3.8-4](#)) until there is adequate clearance to swing down the maintenance support (refer to [Section 3.13](#)).

- **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**

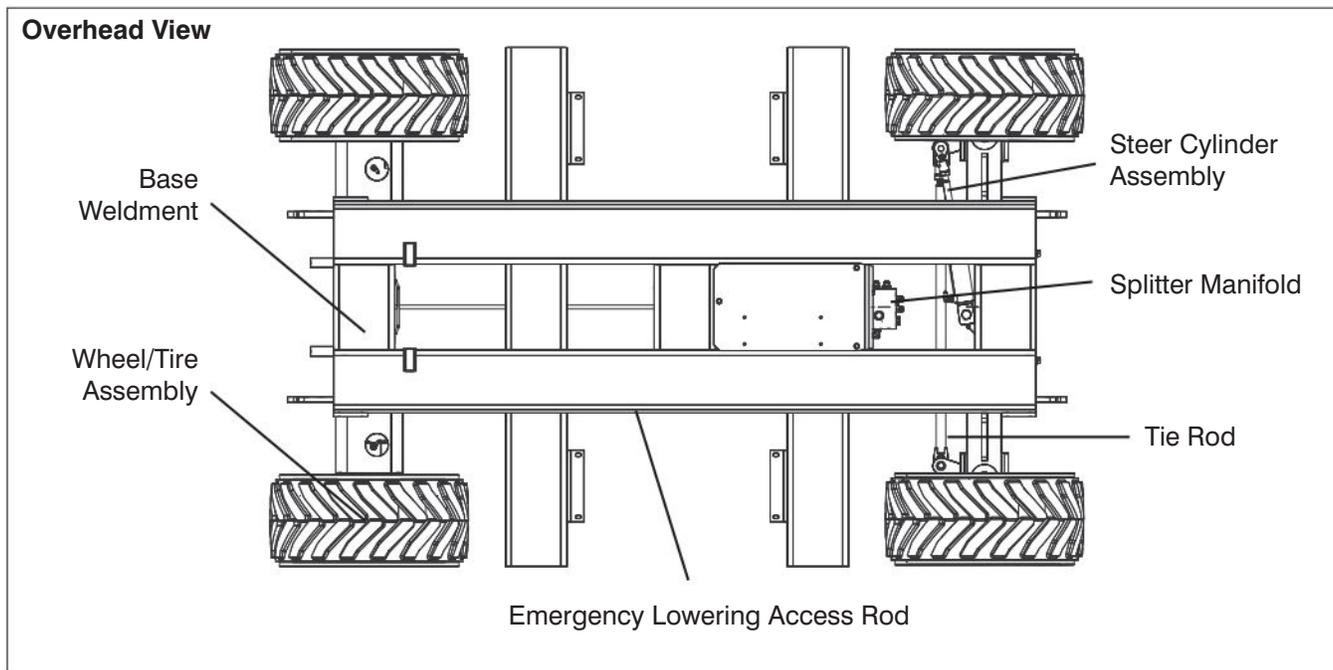
- Ensure rollers are secure and there is no visible damage.
- Ensure rollers' path of travel are free from dirt and obstructions.

- **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 3.13](#).

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 either equipped with air tires or 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 each lug nut for proper torque to ensure none are loose.
- Check wheel motor assembly for loose or missing parts and signs of visible damage (If equipped).
- Ensure wheels are aligned and true vertically and horizontally.

To safeguard maximum stability, achieve optimum MEWP handling and minimize tire wear, it is essential to maintain proper pressure in all air-filled tires.



WARNING

Air filled tires are not permitted on some models. Refer to Table 4.2.

- Check each tire with an air pressure gauge and add air as needed.

Refer to Table 4.2 for wheel/tire specifications.



WARNING

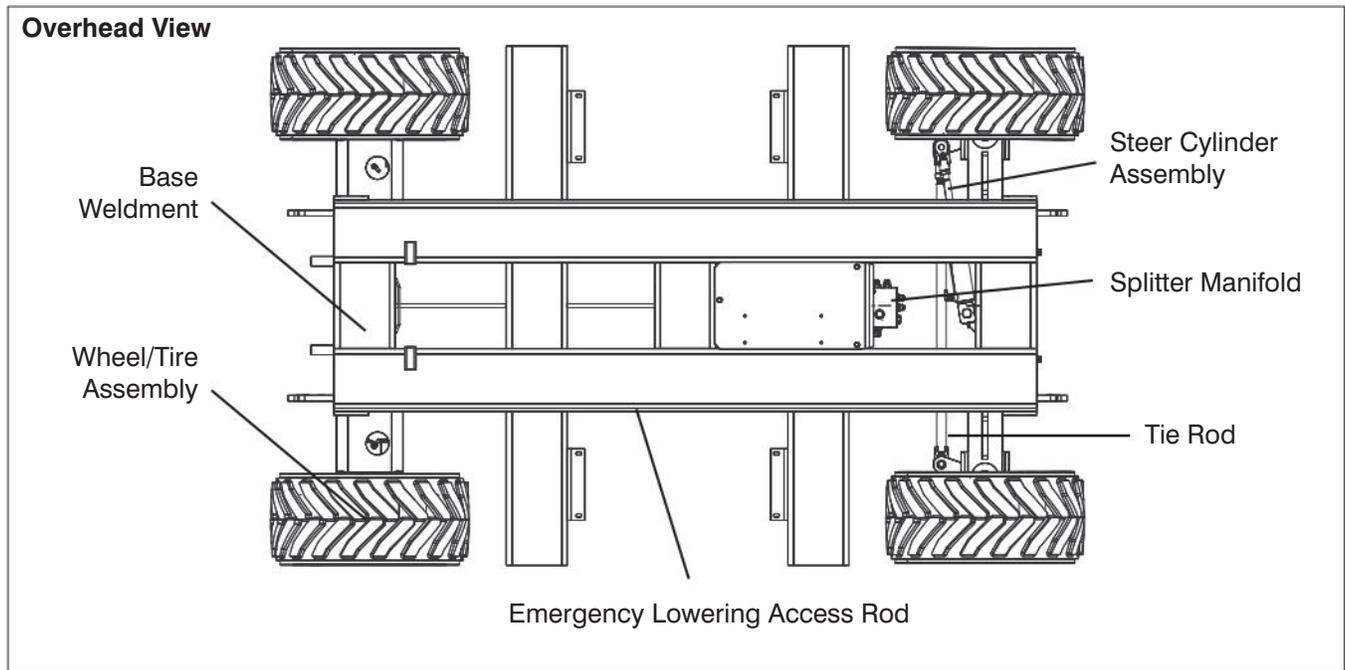
An over-inflated tire can explode and may cause death or serious injury.

- Check all tire treads and sidewalls for cuts, cracks, punctures and unusual wear.
- Check each wheel for damage and cracked welds.

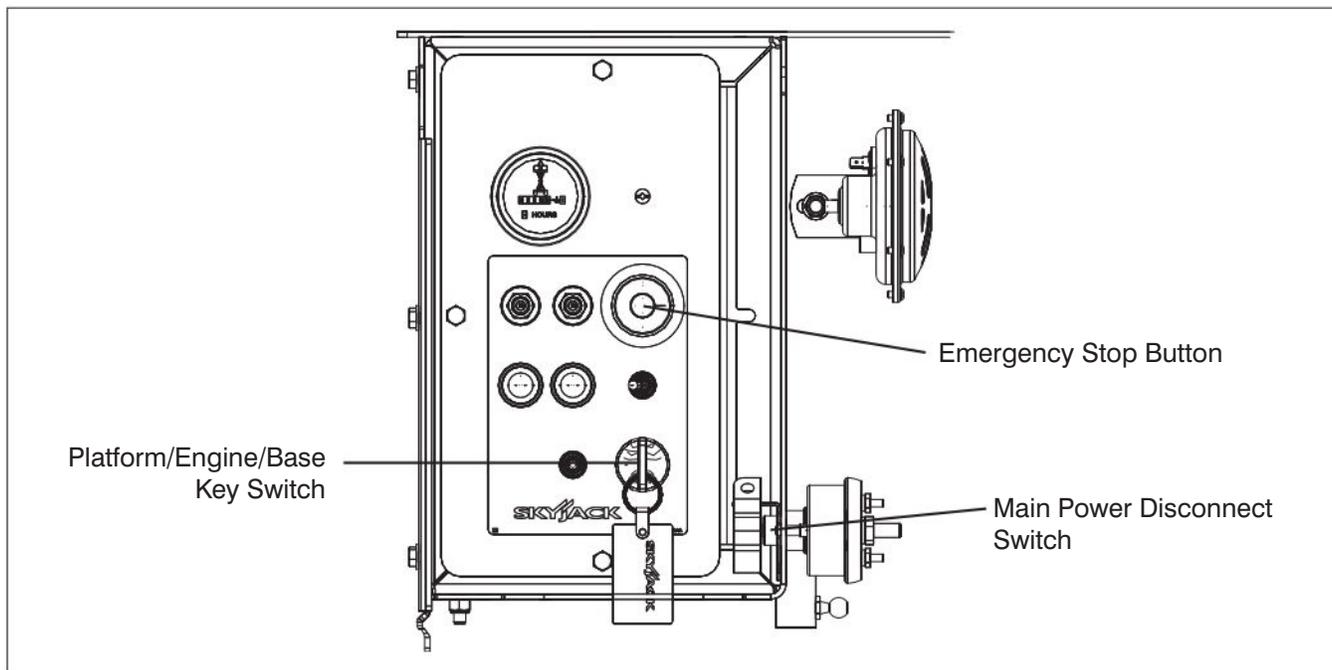


WARNING

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.



- **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

1. In engine compartment, turn main power disconnect switch to “○” off position.
Result: MEWP functions should not operate.

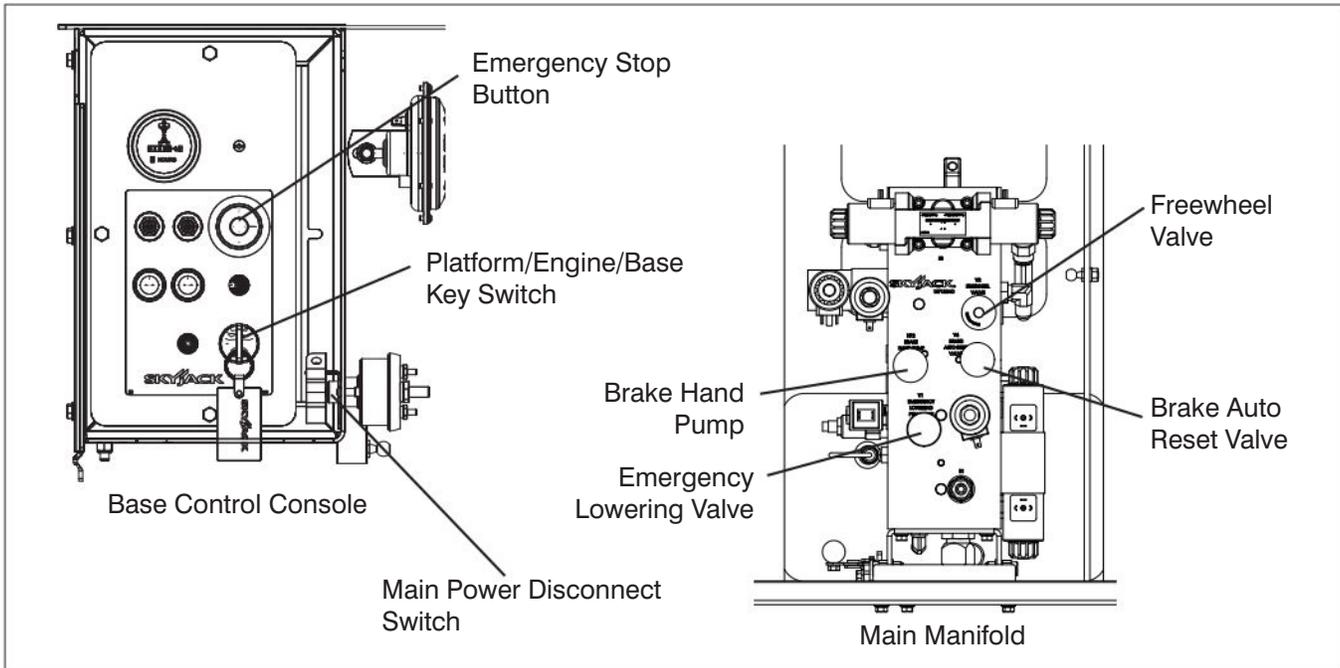
2.4-2 Base Control Console



WARNING

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, push in “” 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 “” emergency stop button.



• **Test Platform/Engine/Base Key Switch**



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

1. Insert key into platform/engine/base key switch, select “” engine position and attempt to start engine.
Result: Engine should not start.
2. With key inserted into platform/engine/base key switch, select “” base position and attempt to start engine.
Result: Engine should start.

• **Test Emergency Stop**

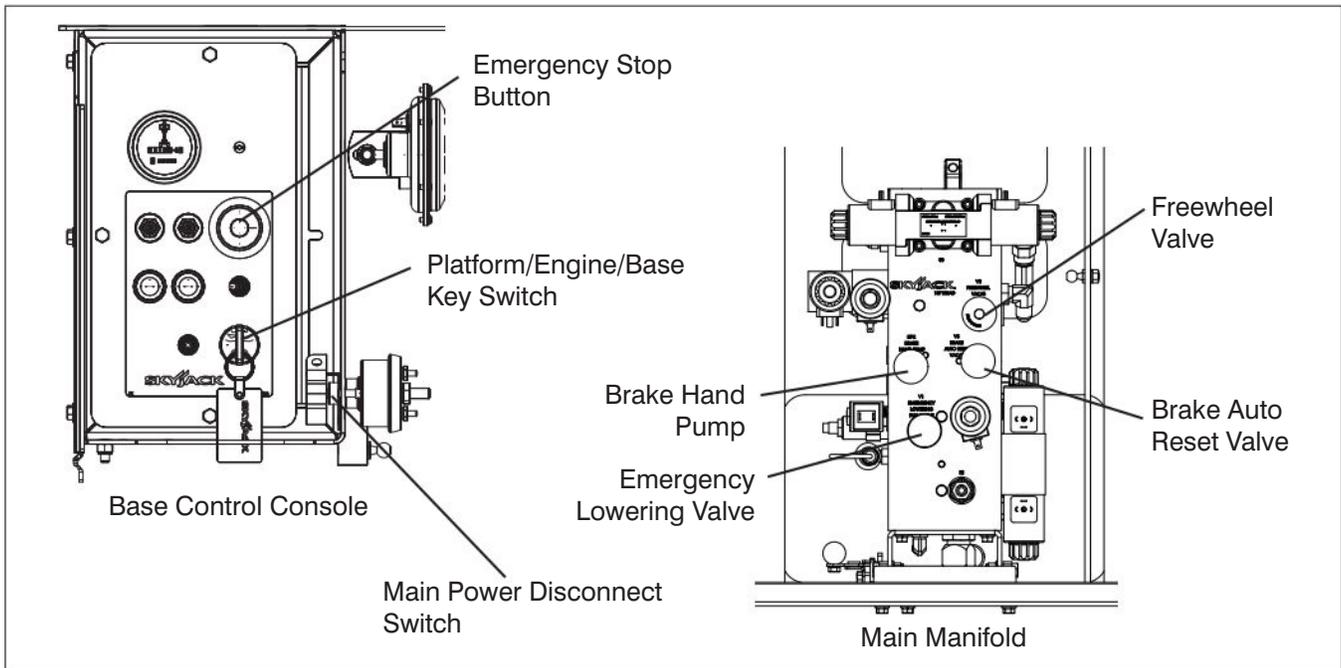
1. Push in “” emergency stop button.
Result: Engine should shut down and MEWP functions should not operate.
2. Pull out “” emergency stop button and restart engine.

• **Test Platform Raise/Lower Switch**

1. Select platform/engine/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.

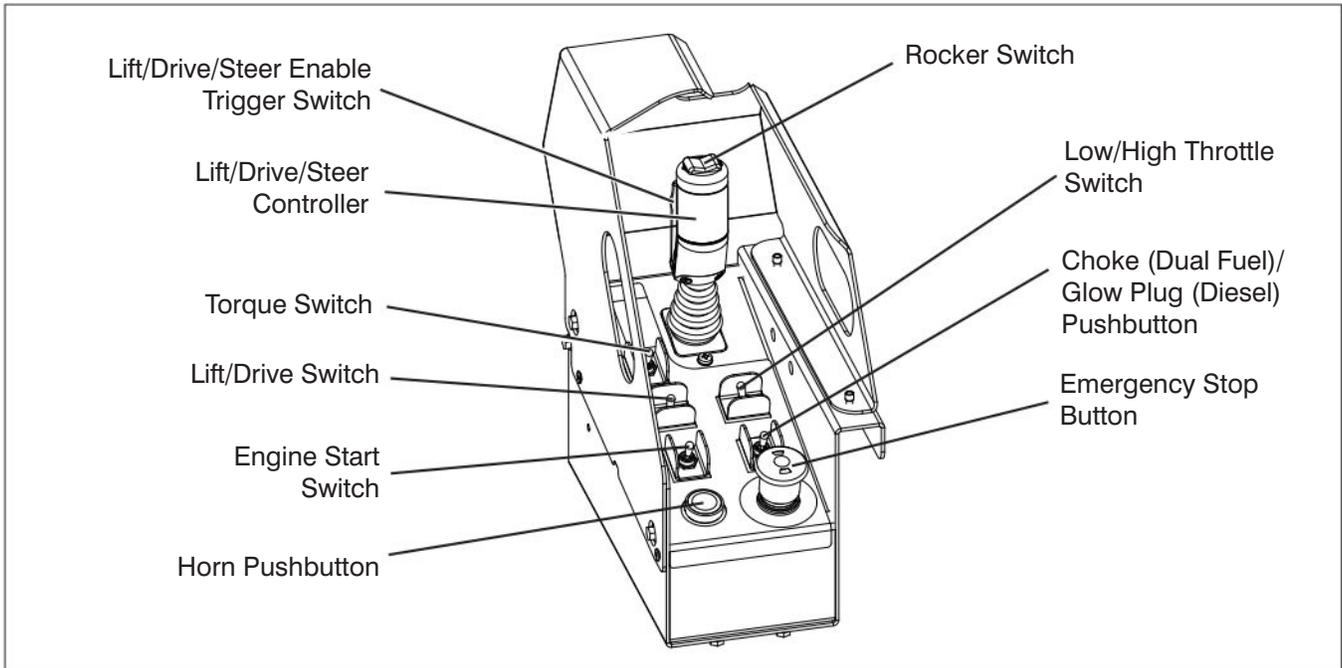
• **Test Emergency Lowering**

1. Raise the platform.
2. 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 hydraulic/fuel 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](#)).
3. 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 “” emergency stop button is pulled out.
2. Ensure main power disconnect switch is in “” on position.
3. Select platform/engine/base key switch to “” platform position and remove key.



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. Ensure low/high throttle switch is in “” low throttle position.
7. On platform control console, pull out “” emergency stop button.

• **Test Emergency Stop**

1. Ensure engine is running.

2. Push in “” emergency stop button.
Result: Engine should not shut down but platform functions should not operate.

• **Test Enable Trigger Switch**

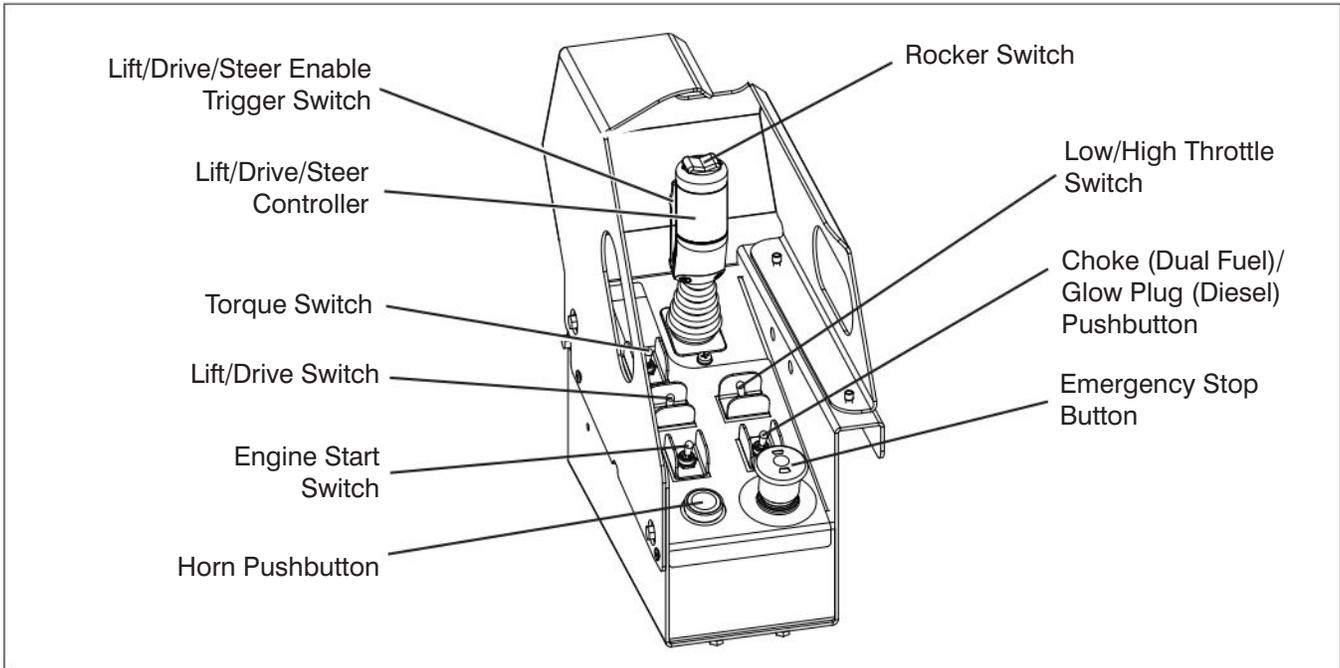
1. Ensure engine is running.
2. Without activating “” enable trigger switch, attempt to activate any platform function.
Result: All platform functions should not operate.

• **Test Platform Raising/Lowering**



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

1. 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**

1. 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**

1. Ensure engine is running.
2. Press rocker switch on top of controller to “” left and “” 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 “” drive position.
3. Activate and hold “” enable trigger switch.

4. Slowly move controller in “” forward or “” 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.

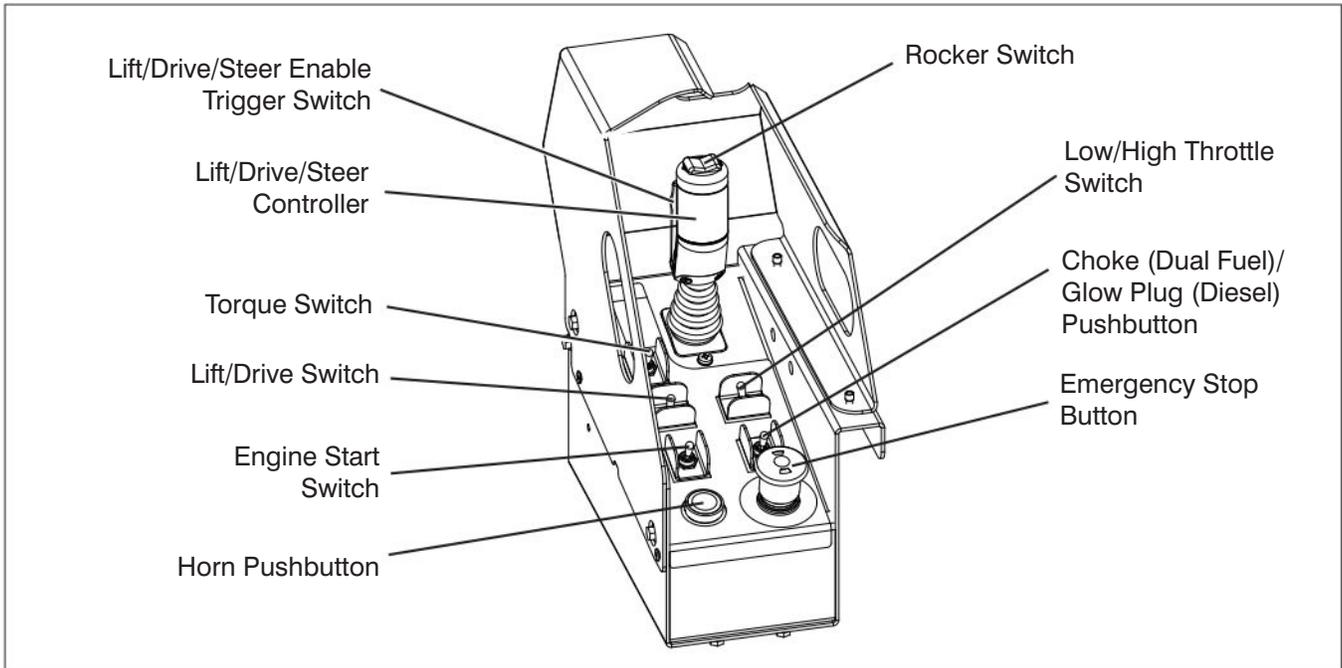
• **Test Elevated Drive Speed**



WARNING

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**



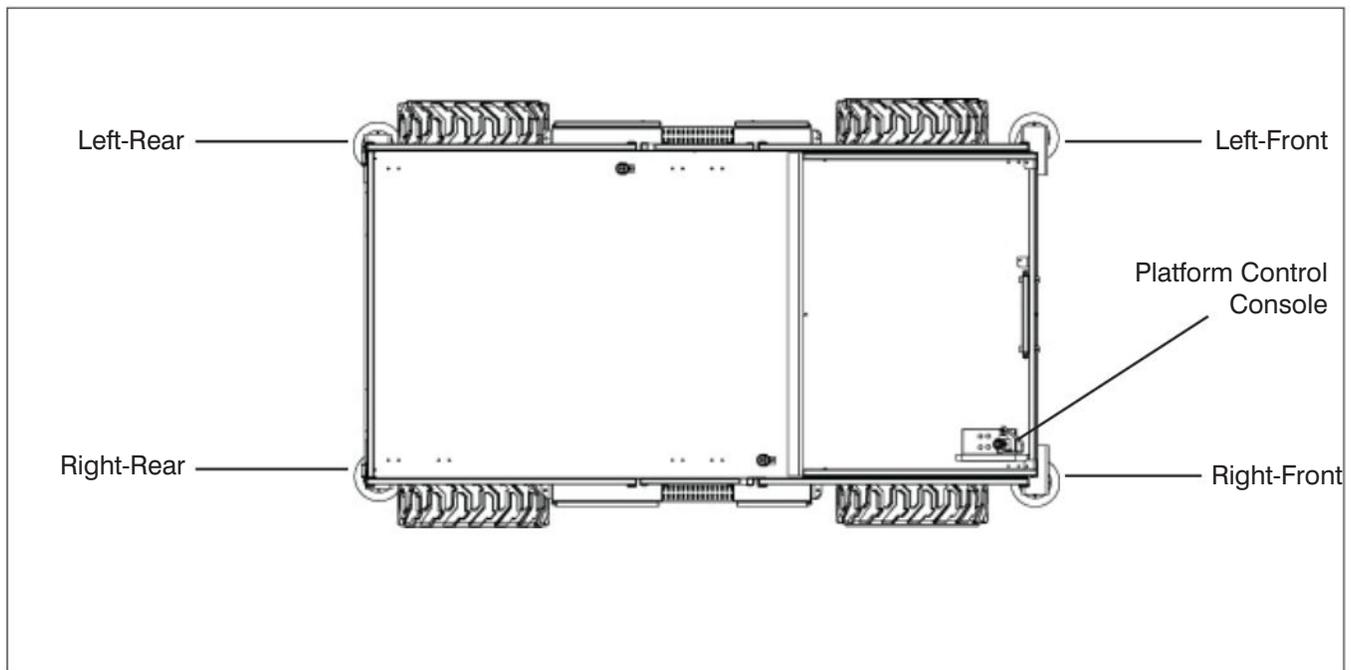
WARNING

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 “” horn pushbutton.
Result: Horn should sound.



- **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.

**WARNING**

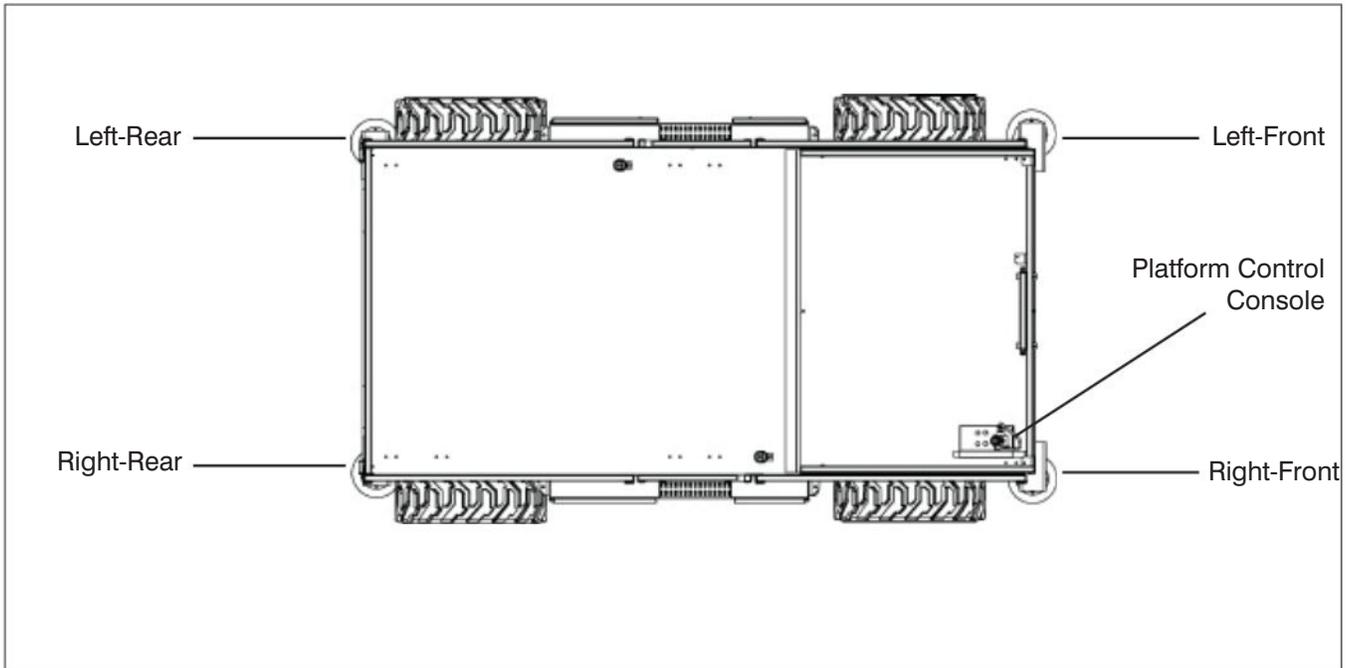
Ensure that there are no personnel or obstructions in the path of travel, including blind spots.

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

**WARNING**

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.
- 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.

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.

14. Platform at stowed position.

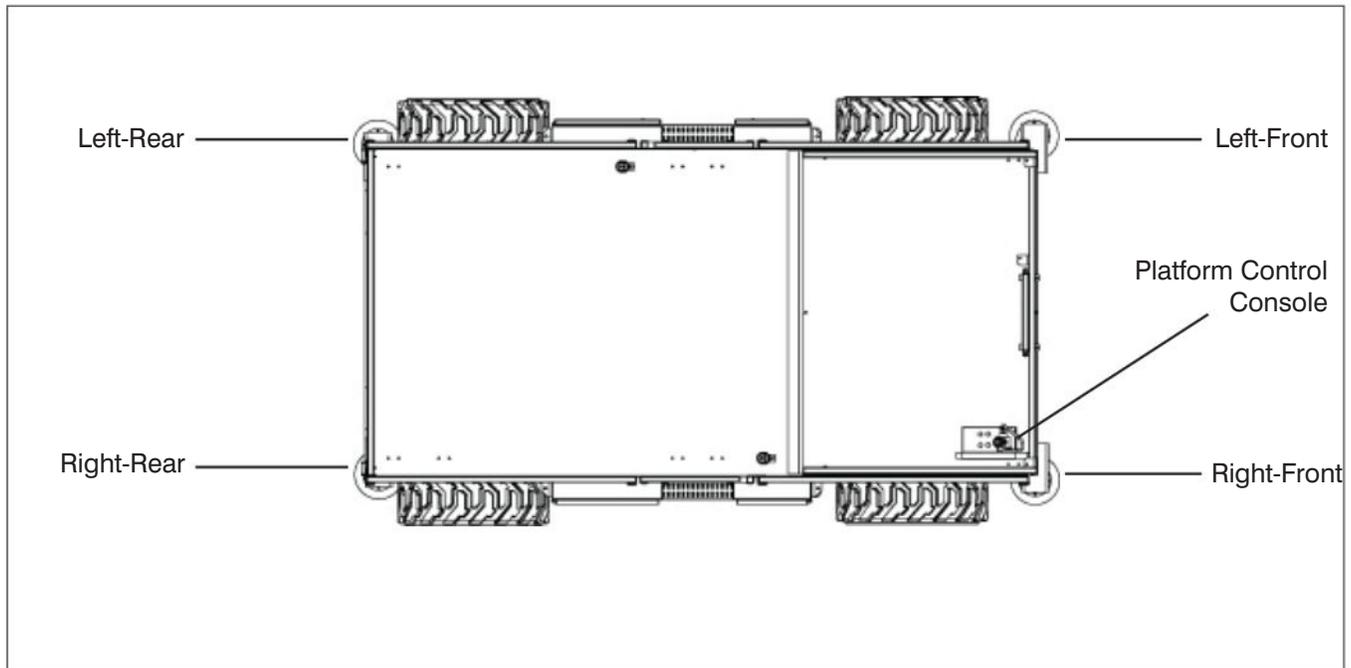
- Extend each outrigger until it raises the tires up approximately 2".

- 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.

**WARNING**

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

**WARNING**

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

2.5 Winching and Towing Procedure

This section provides the operator with procedure about winching and towing and how to 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 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 the Free-wheeling Valve

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

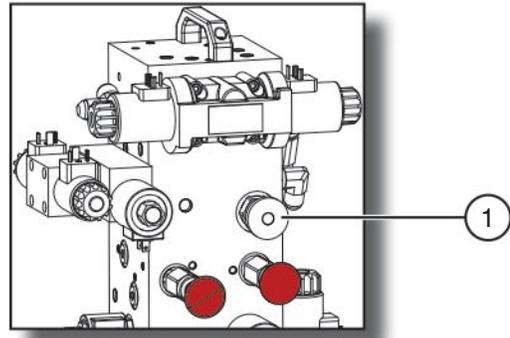


Figure 2-8. Free-Wheeling Valve

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”.



WARNING

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

2.5-2 To Release the Brakes Manually

**WARNING**

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

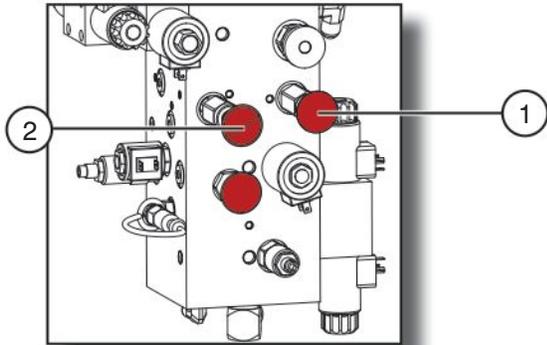


Figure 2-9. Disc Brakes System

NOTE

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

8. Chock or block wheels to prevent MEWP from rolling.
 9. Reengage brakes by pulling out brake auto reset valve plunger.
1. Ensure MEWP is on level ground. Chock or block wheels to prevent MEWP from rolling.
 2. Turn main power disconnect switch to “○” off position.
 3. Locate brake auto reset valve plunger (item 1) and brake hand pump (item 2) at the main manifold in the hydraulic/fuel compartment.
 4. Push in brake auto reset valve plunger.
 5. 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.

**WARNING**

Brakes must be reengaged immediately after reaching the desired location.

7. Position MEWP on a firm and level surface.

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 or an engine malfunction.



WARNING

Keep clear of scissors mechanism when using emergency lowering valve.

1. Remove any obstructions from a lowering platform.
2. 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.

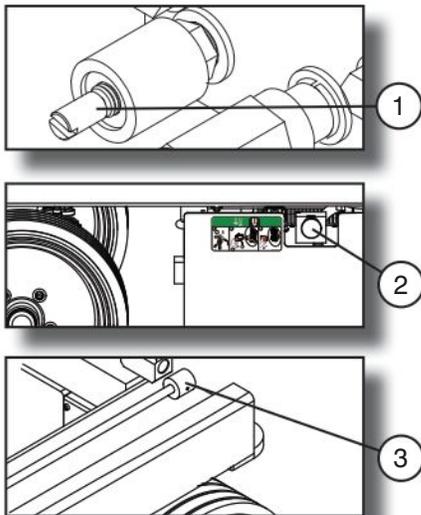


Figure 2-10. Emergency Lowering System

3. 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 hydraulic/fuel 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 section 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 maintenance and inspection schedule referred to in this section.

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

- The inspection points covered in [Table 4.6](#) indicate the areas of the MEWP to be maintained or inspected and at what intervals the maintenance and inspections are to be performed.
- The actual operating environment of the MEWP may affect the maintenance schedule.



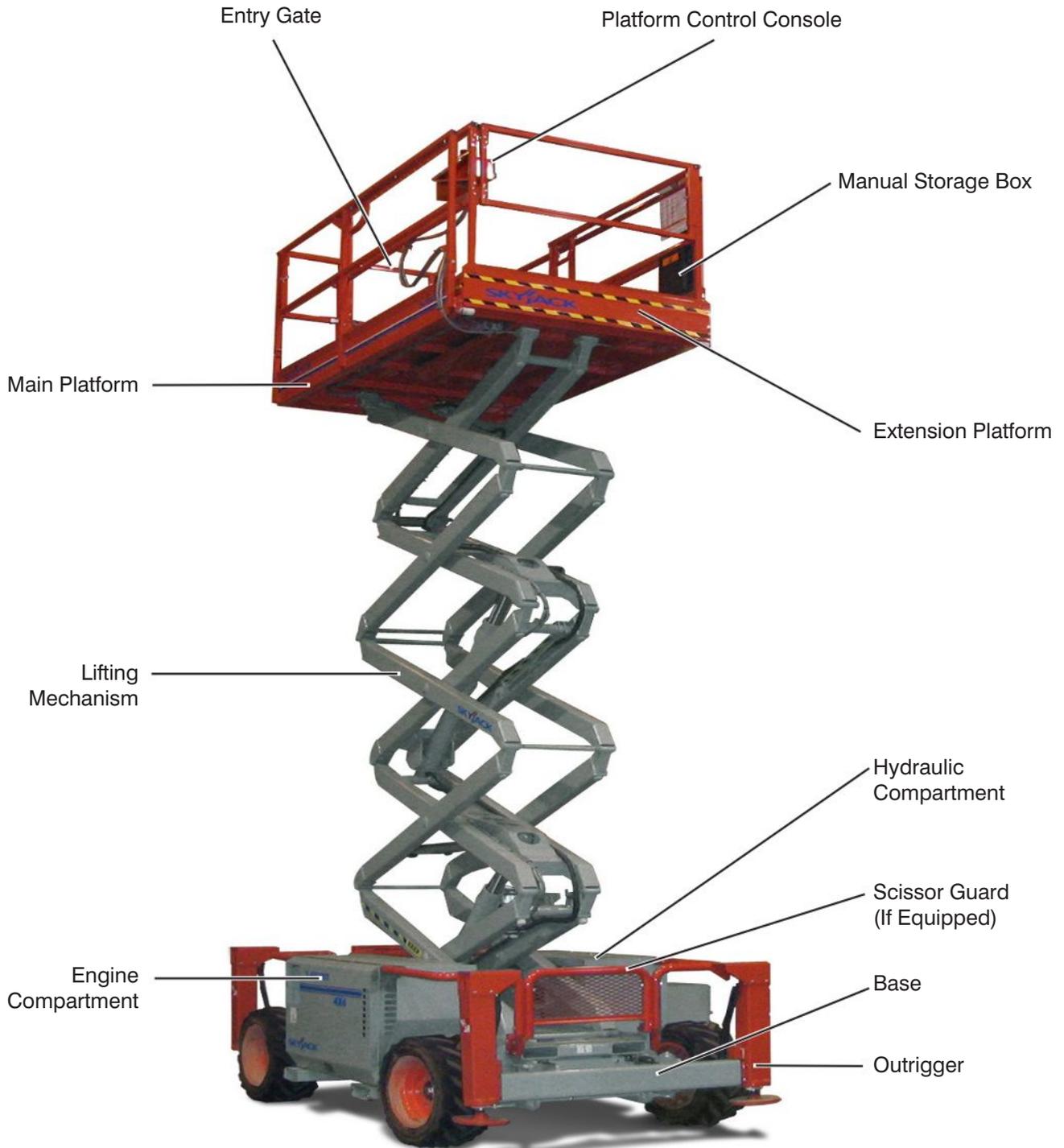
WARNING

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

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 6826RT 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 engine, 12V battery, base control console and electrical components. The other compartment contains the emergency lowering system, brake release and hydraulic components as well as fuel and hydraulic tanks.
- The propane cylinders (if equipped) are located on both sides of the hydraulic/fuel compartment.
- 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, driven by an engine, 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 Maintenance Support

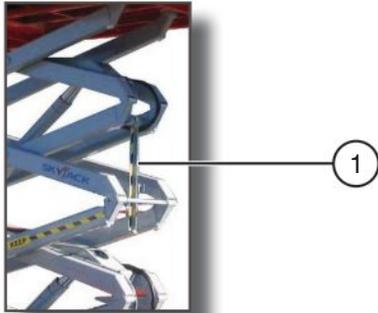


Figure 3-1. Maintenance Support

1. **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 3.13](#) for how to use the maintenance support.



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.



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.

3.5-2 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.



3.5-3 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 3.11](#) for guardrail folding procedure.



WARNING

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



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. Refer to [Section 3.11](#), for guardrail folding procedure.

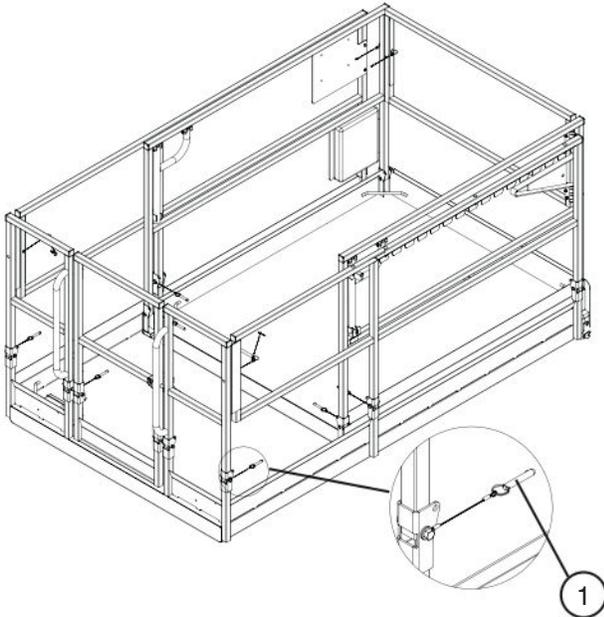


Figure 3-2. Folding Guardrail System

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



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.

3.5-4 Safety Belt/Harness Attachment Bar

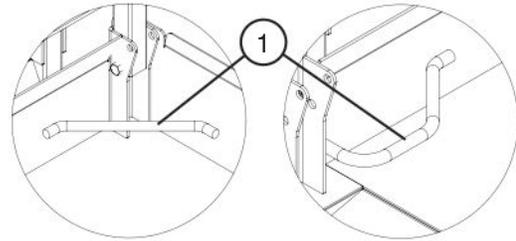


Figure 3-3. Safety Belt/Harness Attachment Bar

1. **Lanyard Attachment Anchorage** - Use this as an attachment point for safety belt/harness tethers. Do not attach belts/harnesses 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.



WARNING

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/Generator Control Console (Auto-leveling) (If Equipped)

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

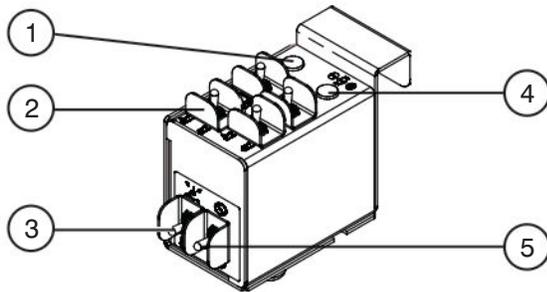


Figure 3-4. Outrigger/Generator Control Console with All Options

1. **Generator Switch** - This switch activates the generator.
2. **Outrigger Extend/Retract Switches** - These switches control the extension or retraction of each individual outrigger.
3. **Auto-level Switch** - In the “” extend position, each outrigger extends and automatically adjusts until MEWP is level. In the “” retract position, the outriggers retract.
4. **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.

5. **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.

3.6-2 800W AC Inverter (If Equipped)

The inverter is located on the base of the MEWP. It has the following controls:

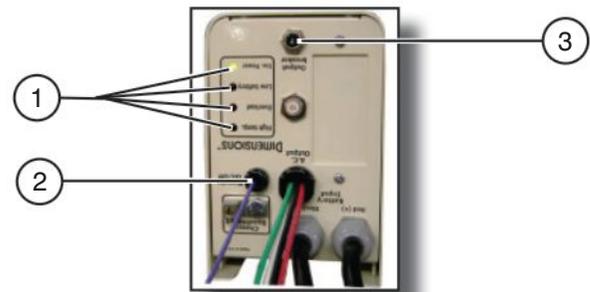


Figure 3-5. 800W AC Inverter

NOTE

The inverter operation is automatic. These controls do not need to be manipulated for normal operation.

1. **Status LEDs** - These LEDs indicate the operating or fault status of the inverter.
2. **ON/OFF Wire** - This wire is the connection to turn the inverter on.
3. **15 Amp Circuit Breaker** - In the event of a power overload or circuit grounding, the circuit breaker pops out. Push the breaker back in to reset.

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.



WARNING

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 Checklist (see [Table 4.7](#)) 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 (see [Table 4.6](#)).

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.



WARNING

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:

1. Visual and daily maintenance inspections (see [Section 2.3](#))
2. Function tests (see [Section 2.4](#))
3. 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
 - the presence of other mobile equipment
 - other possible unsafe conditions



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.**

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

3.8-1 To Activate Base Control Console

1. Turn main power disconnect switch to “I” on position.
2. On base control console, pull out “” emergency stop button.
3. For dual fuel engines, select fuel supply by moving fuel switch to either “” gasoline or “” liquid propane gas position.
4. Insert key into platform/engine/base key switch and select “” base position.
5. For cold dual fuel engines, depress and hold “” choke pushbutton. For cold diesel engines, depress and hold “” glow plug pushbutton for 15 to 20 seconds.
6. Depress and hold “” engine start pushbutton until engine starts, then release. Do not overcrank starter. Release “” choke pushbutton after engine starts (dual fuel).

NOTE

Choke is only active while button is depressed. Occasional use of choke button may be necessary during the first few seconds of engine operation.

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.

**WARNING**

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](#)).
2. On base control console, select and hold “” base position on platform/engine/base key switch. Select and hold platform raise/lower switch to either “” raise or “” lower position. Release platform raise/lower switch to stop.

3.8-3 To Activate Platform Control Console

1. Turn main power disconnect switch to “I” on position.
2. On base control console, pull out “” emergency stop button.
3. For dual fuel engines, select fuel supply by moving fuel switch to either “” gasoline or “” liquid propane gas position.
4. Insert key into platform/engine/base key switch and turn it to platform “” position to enable platform controls.



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. On platform control console, pull out “” emergency stop button.
8. Turn low/high throttle switch to “” low throttle position.
9. For cold dual fuel engines, select and hold “” choke switch. For cold diesel engines, select and hold “” glow plug switch for 15 to 20 seconds.



CAUTION

Do not start the engine in the high throttle position.

10. Select and hold “” engine start switch until engine starts, then release. Do not overcrank starter. Release “” choke switch after engine starts (dual fuel).

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 “” lift position.
3. Activate and hold “” enable trigger switch.
4. Move controller handle forward “” to raise or backward “” to lower the platform, until desired height is reached.
5. Return controller to neutral center position to stop. Release enable trigger switch.

NOTE

Lowering is not proportional.



WARNING

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.

3.8-5 To Drive Forward or Backward**WARNING**

Be aware of blind spots when operating the MEWP.

**WARNING**

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

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

**WARNING**

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 controls (refer to [Section 3.8-3](#)).
2. On the platform control console, turn lift/drive switch to “” drive position.
3. Activate and hold “” enable trigger switch.
4. Press “” rocker switch 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

1. **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 “” high torque (low speed) position.



WARNING

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.

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



WARNING

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

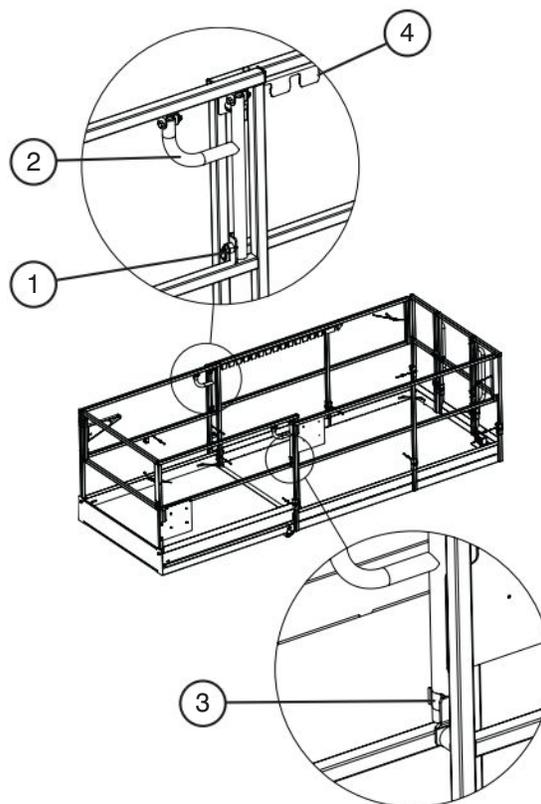


Figure 3-6. Manual Extension Platform

1. 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.
2. 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.

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

1. Move around MEWP to check overhead clearances and ground obstructions.
2. To lower the platform completely, refer to [Section 3.8-4](#). Outrigger controls are not functional when platform is raised.
3. 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.

3.8-9b To Extend Outriggers

4. On outrigger/generator control console, select and hold “” enable switch to provide power to outrigger circuit.
5. **Auto Extension:** Select auto-level switch to “” 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.
-  **Flashing:** The outriggers are extended but the platform is not yet level.
-  **Solid:** The outriggers are extended and the platform is level.

6. 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.
7. 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.

**WARNING**

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

8. On outrigger/generator control console, select and hold “” 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 switches to “” retract position until the 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 Generator (If Equipped)**To start generator:**

1. On platform control console, select lift/drive switch to  lift position.
2. On outrigger/generator control console, select generator switch to “ | ” energized position. The engine will automatically switch to low throttle and the generator will start.

To restore normal operation:

3. Flip generator switch to “○” off position. The generator will turn off.

NOTE

Activating any lift or outrigger functions, changing key switch settings, activating emergency stop or an engine stall will turn off the generator. The platform may be lowered during generator operation.

3.8-11 Electrical Inverter (If Equipped)

The inverter is operational with alternating current available at all times when the machine is on. The emergency stop button will turn the inverter off.

To check status of inverter:

1. Inverter state is indicated by the LEDs on the face of the inverter. A glowing green LED indicates normal operation. If a fault occurs, the status LEDs will indicate the area responsible. Refer to [Section 3.6-2](#).

3.8-12 Shutdown Procedure

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

**WARNING**

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, push in “” emergency stop button.
5. Turn platform/engine/base key switch to “” engine position and remove key.
6. Turn main power disconnect switch to “○” off position.

3.9 Refueling Procedure

This section provides the operator with the procedure on how to refuel the engine with regular fuel and install the propane cylinder.

IMPORTANT

Before using the MEWP ensure there is enough fuel to finish the job.



WARNING

Follow all local and national regulations for propane handling.

- **Use extreme caution while refueling MEWPs.**
- **Ensure engine and all systems are turned off before refueling.**
- **Refuel MEWP only in a well ventilated area away from open flame and other sources of ignition, authorized by your employer and supervisor.**
- **Liquid propane gas fuel is a gas that is heavier than air. It settles in low spots. Any flame or spark could cause a fire that could cause serious injury.**
- **When changing liquid propane gas cylinder, check all connections for damage or missing parts. Never try to start an MEWP if you smell gas.**
- **For gasoline engine models, use only unleaded gasoline with an octane rating 87 or higher.**



WARNING

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

3.9-1 Regular Fuel

1. Ensure engine and all systems are turned off and emergency stop buttons are depressed.
2. Open fuel compartment door and remove fuel cap.
3. Carefully pour fuel into tank ensuring that no spillage occurs.
4. Securely replace 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.

Protection of Environment from Chemical Dangers



WARNING

Gasoline, diesel fuel, engine oil and hydraulic fluid 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, diesel fuel, engine oil or hydraulic fluid must not get into the sewage system, streams, rivers or other surface water. For that reason, immediately remove the dripped off or spilled gasoline, diesel fuel, engine oil or hydraulic fluid with appropriate means and dispose of these means according to the regulations.

3.9-2 Propane**WARNING**

Follow all local and federal regulations for propane handling.

Removing a Propane Cylinder

1. Ensure engine and all systems are turned off and emergency stop button is depressed.
2. Turn propane cylinder's main valve clockwise to shut off fuel supply to engine.
3. Start engine and allow it to stop naturally. Restart engine to ensure fuel lines are empty.
4. Disconnect hose from empty propane cylinder by detaching the coupling. Turn fitting counterclockwise.
5. Loosen two propane cylinder straps by pulling up on the metal clips. Disconnect straps from hooks.
6. Remove the propane cylinder.

Installing a Propane Cylinder

1. Ensure engine and all systems are turned off and emergency stop button is depressed.
2. Place propane cylinder on bracket or in compartment.
3. Ensure metal peg on bracket or compartment is inserted into propane cylinder rim.
4. Reconnect propane cylinder straps to hooks and fasten tightly.
5. Attach coupler to propane cylinder and turn clockwise to tighten fitting.
6. Apply soap water or neutral detergent to pipe connection and cylinder.
7. Open valve 1/4 turn counterclockwise and check for any gas leaks.
8. Wipe off soap water or detergent after inspection is completed.
9. Open main valve fully if there are no leaks.

NOTE

The MEWP is now ready for use by an authorized, qualified operator who has read and completely understands all of [Section 3](#) operations in this manual.

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 machinery during loading/unloading.

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

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 hydraulic/fuel and engine 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 twelve lifting points as illustrated in [Figure 3-7](#).

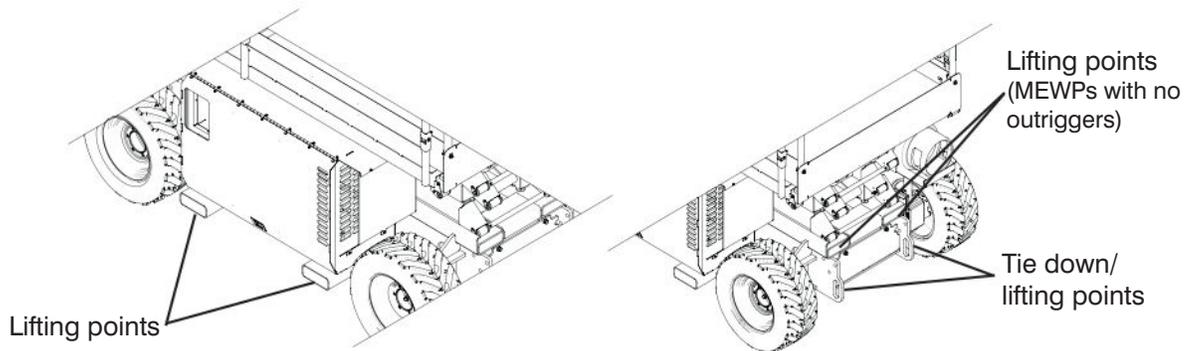


Figure 3-7. Tie Downs/Lifting Points

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 3-8](#). Vertically, the center of gravity is approximately just above the base chassis.

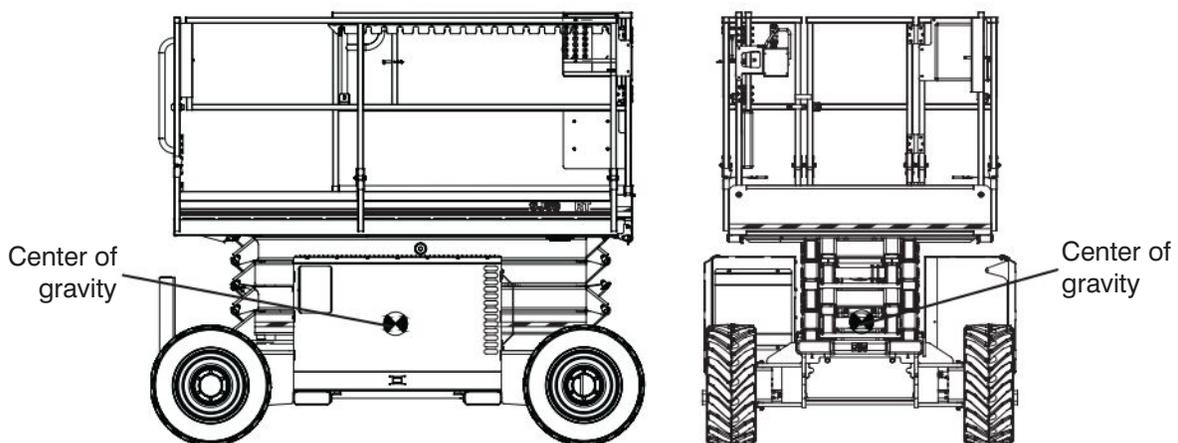


Figure 3-8. Center of Gravity

NOTE

The MEWP can be lifted with a forklift from the sides but Skyjack does not recommend this use. Lift with forks in designated pockets as illustrated in [Figure 3-9](#).

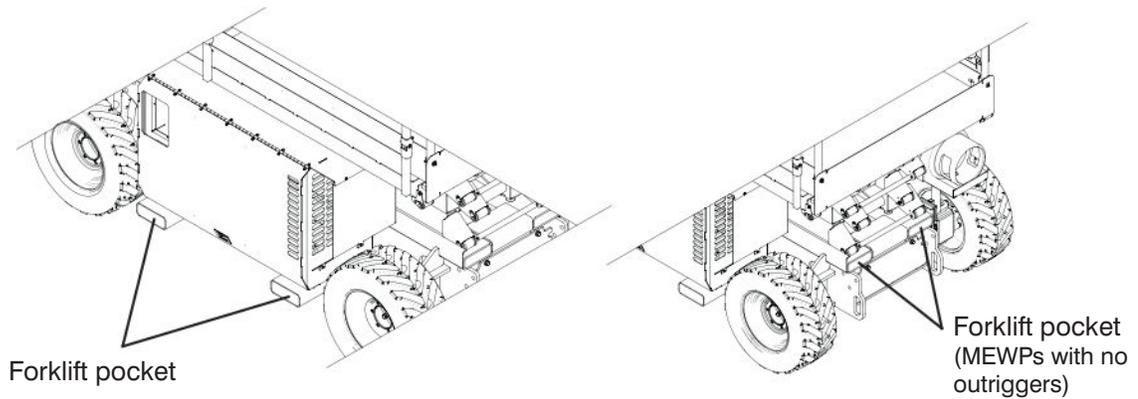


Figure 3-9. Forklift Pockets

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.

**WARNING**

When transporting, the MEWP must be secured to the truck or trailer deck. Tie downs are available as illustrated in [Figure 3-7](#).

3.11 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.

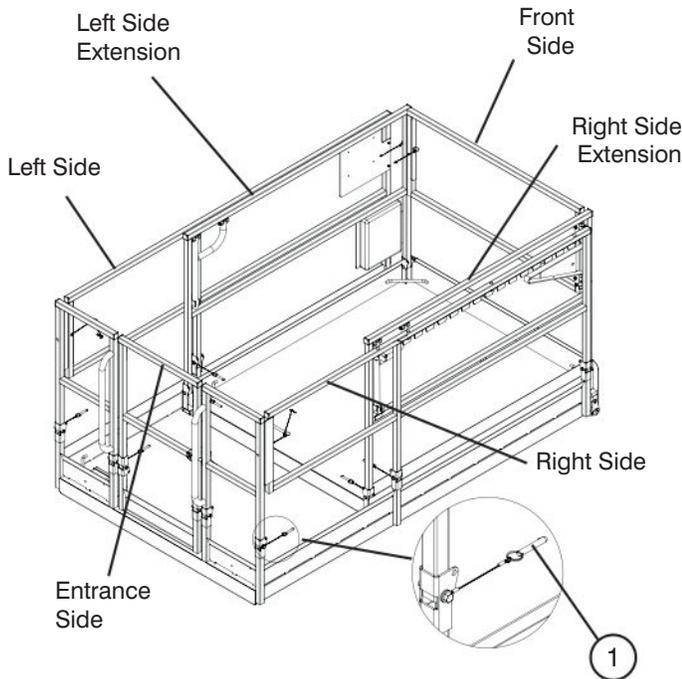


Figure 3-10a. Folding Guardrail System

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 “” 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. 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.

8. Fold down guardrails in the following order: front, right extension, left extension, right-side, left-side and entrance (refer to [Figure 3-10a](#)).
9. 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.
10. Remove the locking pin on the **right side extension guardrail** and fold it down with the front guardrail.
11. Remove the locking pin on the **left side extension** guardrail and fold it down.
12. Remove the locking pins on the **right side** guardrail and fold it down.
13. Remove all the locking pins on the **left side** guardrail and fold it down.

- With the gate closed, remove all the locking pins on the **entrance side** guardrail and fold the guardrail down.

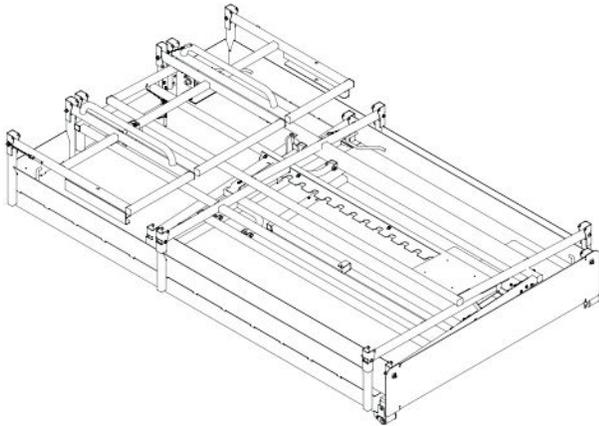


Figure 3-10b. All Guardrails Folded Down

To raise the guardrail system up:



WARNING

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

- Ensure that the MEWP is on level ground.
- Ensure extension platform is fully retracted.
- Ensure “” emergency stop button is depressed.
- Turn main power disconnect switch to “” 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.

- 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.

- 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.
- Swing up the **entrance side** guardrail then lock it in place by inserting all locking pins.
- Swing up the **left side** guardrail and lock it in place by inserting all locking pins.
- Swing up the **right side** guardrail and lock it in place by inserting all locking pins.
- 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.
- 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.

3.12 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 3.11](#) for guardrail folding procedure.

2. Perform a thorough jobsite inspection prior to operating the MEWP to identify potential hazards in your work area.
3. 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 “○” 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 “●” emergency stop button.
8. Disconnect and remove platform control console from the platform.
9. Fold the guardrails if necessary. Refer to [Section 3.11](#) for guardrail folding procedure.
10. Use the ladder to dismount from platform.
11. Connect platform control console to the connection inside the engine cabinet.

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.
18. Insert key into platform/engine/base key switch and turn it to “🚧” platform position.
19. On platform control console, pull out “●” emergency stop button.
20. Turn low/high throttle switch to “🛑” low throttle position.



CAUTION

Do not start the engine in the high throttle position.

21. Start engine.



DANGER

Do not drive the MEWP toward yourself.

22. On platform control console, select torque switch to “🚗” low speed drive position.
23. Using as low a speed as practical and the operator positioned behind the MEWP, drive forward through doorway.
24. Once safely through doorway, push in “●” emergency stop button and turn main power disconnect switch to “○” off position.

25. 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.

26. Return guardrails to upright position if folded. Refer to [Section 3.11](#) 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.

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

3.13 Maintenance Support Procedure

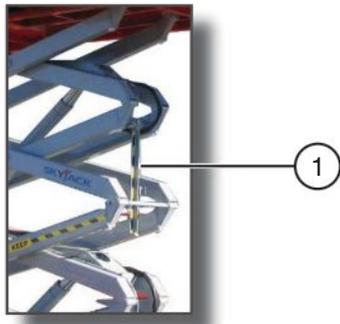


Figure 3-11. Maintenance Support

1. **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.

Proper Use of 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.
5. 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 “○” 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.

Table 4.1 Standard and Optional Features

MODEL	Compact RT's	
	6826	6832
STANDARD EQUIPMENT		
Joystick control	*	*
4WD	*	*
18.5 kW (24.8 hp) Kubota D902 diesel water-cooled engine	*	*
Easy operation 152 cm roll out extension platform	*	*
Load sensing system	*	*
Tilt sensing system	*	*
Swing out engine tray	*	*
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	*	*
Base controls	*	*
All motion audible alarm	*	*
OPTIONAL EQUIPMENT		
Flashing light	*	*
23.1 kW (31 hp) Kubota DF972 dual fuel - gasoline/propane engine	*	*
Shop air line to platform	*	*
Work lights	*	*
Independent leveling hydraulic outriggers	*	*
800W Inverter	*	*

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4

Table 4.2 Specifications and Features

Model		Compact RT's			
		6826		6832	
Weight*	No Outriggers	2903 kg	6400 lb.	3475 kg	7661 lb.
	With Outriggers	3305 kg	7286 lb.	3655 kg	8058 lb.
Width		1.73 m	68.1 in.	1.73 m	68.1 in.
Length	No Outriggers	2.7 m	106.3 in.	2.7 m	106.3 in.
	With Outriggers	3.34 m	131.5 in.	3.34 m	131.5 in.
Platform Size		1.4 m x 2.5 m	55 in. x 98 in.	1.4 m x 2.5 m	55 in. x 98 in.
Height	Working	9.8 m	32 ft.	11.7 m	38 ft.
	Platform Elevated	7.9 m	25.9 ft.	9.7 m	31.8 ft.
	Platform Lowered	2.37 m	7.8 ft.	2.51 m	8.2 ft.
	Drive	7.9 m	25.9 ft.	9.7 m	31.8 ft.
Speed	Normal Drive	6.3 km/h	4 mph	6.3 km/h	4 mph
	Elevated Drive	0.63 km/h	0.39 mph	0.63 km/h	0.39 mph
	Lift (Rated Load)	36 sec		39 sec	
	Lower (Rated Load)	36 sec		36 sec	
Engine (RPM)	Kubota Diesel	3500 (High Throttle) / 2050 (Low Throttle)			
	Kubota Dual Fuel	3500 (High Throttle) / 2050 (Low Throttle)			
Tires	Foam-filled	OTR Outrigger - 26 x 12D			
	Air-filled	N/A			
Sound Pressure		96 dB(A)			
Gradeability (Torque Equivalent To)		50%		40%	

60440AH-CE

* Weights are approximate; refer to serial nameplate for specific weight.

Table 4.3 Owner's Annual Inspection Record

										
 Model Number: _____ Serial Number: _____										
*		20__	20__	20__	20__	20__	20__	20__	20__	20__
**										

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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
**		Inspector Signature

Table 4.4 Maximum Platform Capacities (Evenly Distributed)

MODEL		Total		Extension		Maximum Side Force	Maximum Wind Speed	Tilt Cutout Setting (Degrees)	Tilt Cutout Setting (Outriggers) (Degrees)
		Capacity	Number of Occupants	Capacity	Number of Occupants				
6826	One Extension Platform	567 kg	4	136 kg	1	400N	12.5 m/s	2.5 x 4.5	1.5 x 1.5
6832	One Extension Platform	454 kg	2	136 kg	1	400N	12.5 m/s	2.5 x 4.5	1.5 x 1.5
			4				No Wind		

60441AF-AS

NOTE:

Occupants and materials are not to exceed rated load.
 Refer to capacity label for additional information and for models equipped with options.

Table 4.5 Floor Loading Pressure

MODEL		Total Aerial Platform Weight	Total Aerial Platform Load		
			Wheel	LCP**	OUP**
		kg	kg	kPa	kg/m ²
6826	min*	2903	1161	1046	1007
	max*	3931	1572	1159	1364
6826 Outrigger Pads	min*	3305	1322	256	1146
	max*	3931	1572	305	1364
6832	min*	3475	1390	1114	1205
	max*	4168	1667	1179	1446
6832 Outrigger Pads	min*	3655	1462	283	1268
	max*	4168	1667	323	1446

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- * **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 presses on the areas in direct contact with the floor. The floor covering
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

NOTE:

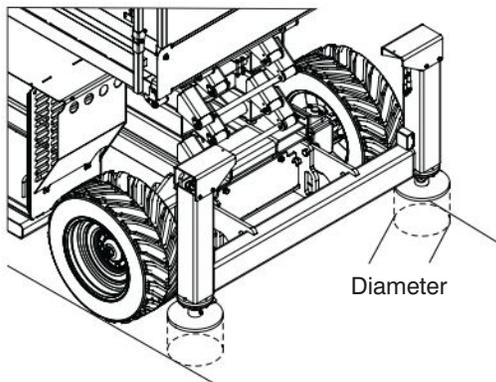
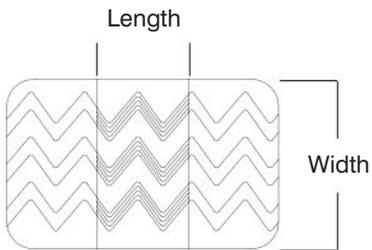
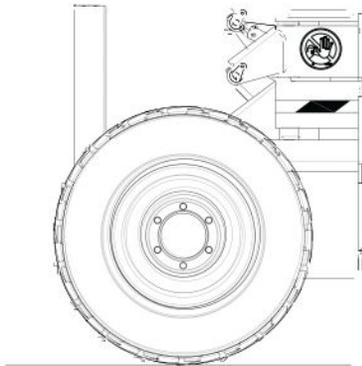
The **LCP** or **OUP** that an individual surface can withstand varies from structure to structure and is generally determined by the engineer or architect for that particular structure.

Floor Loading Pressure

Locally Concentrated Pressure (LCP):

$$\text{Foot Print Area} = \text{Length} \times \text{Width} \\ = \pi r^2$$

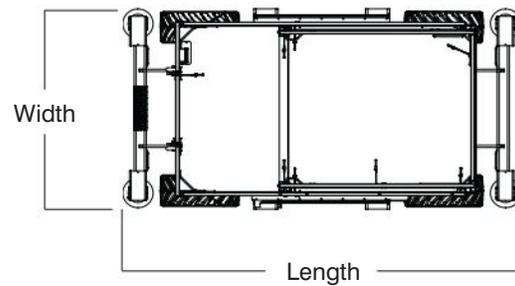
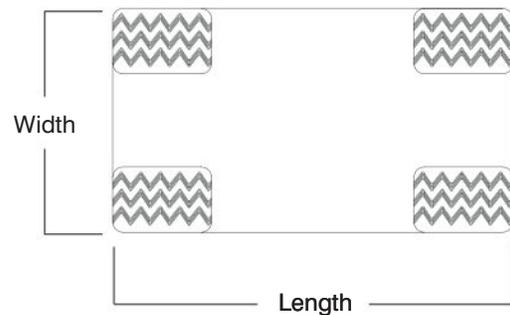
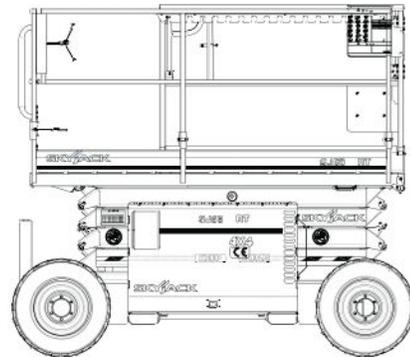
$$\text{LCP} = \frac{\text{Weight of Aerial Platform} + \text{Capacity}}{\text{Foot Print Area} \times 4 \text{ (Tires)}}$$



Overall Uniform Pressure (OUP):

$$\text{Base Area} = \text{Length} \times \text{Width}$$

$$\text{OUP} = \frac{\text{Weight of Aerial Platform} + \text{Capacity}}{\text{Base Area}}$$



! WARNING

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.

General Maintenance

Before attempting any repair work, disconnect battery by turning main power disconnect switch to “○” off position. Preventive maintenance is the easiest and least expensive type of maintenance.

Table 4.6 Maintenance and Inspection Schedule

Frequency	Daily	3 months or 150 hours	Yearly	Frequency	Daily	3 months or 150 hours	Yearly
Visual and Daily Maintenance Inspections							
Labels	A			Scissor Assembly	A		
Electrical	A			Scissor Bumpers	A		
Limit Switches	A			Rollers	A		
Hydraulic	A			Lift Cylinder(s)	A		
Engine Compartment				Base			
Main Power Disconnect Switch	A			Base Weldment	A		
Base Control Switches	A			Wheel/Tire Assembly	A		
Load/Tilt Sensor	A			Steer Cylinder Assembly	A		
Battery	A			Splitter Manifold	A		
Hydraulic Pump	A			Tie Rod	A		
Radiator	A			Emergency Lowering Access Rod	A		
Muffler and Exhaust	A			Ladder	A		
Engine Pivot Tray	A			Hydraulic Outriggers (If Equipped)	A		
Engine Oil Level	A			Function Tests			
Fuel Shut-off Valve	A			Test Main Power Disconnect Switch	A		
Engine Air Filter	A			Base Control Console			
Fuel Leaks	A			Test Platform/Engine/Base Key Switch	A		
Hydraulic/Fuel Compartment				Test Emergency Stop	A		
Hydraulic Tank	A			Test Platform Raise/Lower Switch	A		
Hydraulic Oil	A			Test Emergency Lowering	A		
Hydraulic Return Filter	A			Test Free-wheeling	A		
Fuel Tank	A			Platform Control Console			
Fuel Leaks	A			Test Emergency Stop	A		
Main Manifold	A			Test Enable Trigger Switch	A		
Gear Type Flow Divider	A			Test Platform Raising/Lowering	A		
Platform Assembly				Test Lowering Warning	A		
Anchorage	A			Test Steering	A		
AC Outlet on Platform	A			Test Driving	A		
Manuals	A			Test Elevated Drive Speed	A		
Platform Control Console	A			Test Brakes	A		
Lifting Mechanism				Test Horn	A		
Maintenance Support	A			Test Hydraulic Outriggers (If Equipped)	A		

B*†

B*†

B*†

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A - Perform Visual and Daily Maintenance Inspections & Functions Test. Refer to Section 2.3 and Section 2.4 of this manual.

B - Perform Scheduled Maintenance Inspection. Refer to Service & Maintenance manual.

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

† - Refer to Skyjack's website @ www.skyjack.com for latest service bulletins prior to performing quarterly or yearly inspection.



WARNING

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

NOTE

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

Table 4.7 Operator's Checklist



Serial Number: _____
 Model: _____
 Hourmeter Reading: _____
 Date: _____
 Time: _____

Operator's Name (Printed): _____
 Operator's Signature: _____

Each item shall be inspected using the appropriate section of the Skyjack operating manual.
 As each item is inspected, check the appropriate box.

- P** - PASS
- F** - FAIL
- R** - REPAIRED
- NA** - NOT APPLICABLE

- DAILY
- FREQUENTLY
- ANNUALLY
- BI-ANNUALLY

	N/A	P	F	R
Visual and Daily Maintenance Inspections				
Labels				
Electrical				
Limit Switches				
Hydraulic				
Engine Compartment				
Main Power Disconnect Switch				
Base Control Switches				
Load/Tilt Sensor				
Battery				
Hydraulic Pump				
Radiator				
Muffler and Exhaust				
Engine Pivot Tray				
Engine Oil Level				
Fuel Shut-off Valve				
Engine Air Filter				
Fuel Leaks				
Hydraulic/Fuel Compartment				
Hydraulic Tank				
Hydraulic Oil				
Hydraulic Return Filter				
Fuel Tank				
Fuel Leaks				
Main Manifold				
Gear Type Flow Divider				
Platform Assembly				
Anchorage				
AC Outlet on Platform				
Manuals				
Platform Control Console				
Lifting Mechanism				
Maintenance Support				

	N/A	P	F	R
Scissor Assembly				
Scissor Bumpers				
Rollers				
Lift Cylinder(s)				
Base				
Base Weldment				
Wheel/Tire Assembly				
Steer Cylinder Assembly				
Splitter Manifold				
Tie Rod				
Emergency Lowering Access Rod				
Ladder				
Hydraulic Outriggers (If Equipped)				
Function Tests				
Test Main Power Disconnect Switch				
Base Control Console				
Test Platform/Engine/Base Key Switch				
Test Emergency Stop				
Test Platform Raise/Lower Switch				
Test Emergency Lowering				
Test Free-wheeling				
Platform Control Console				
Test Emergency Stop				
Test Enable Trigger Switch				
Test Platform Raising/Lowering				
Test Lowering Warning				
Test Steering				
Test Driving				
Test Elevated Drive Speed				
Test Brakes				
Test Horn				
Test Hydraulic Outriggers (If Equipped)				

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

Label Legend



Safety Red indicates DANGER.

Safety Red

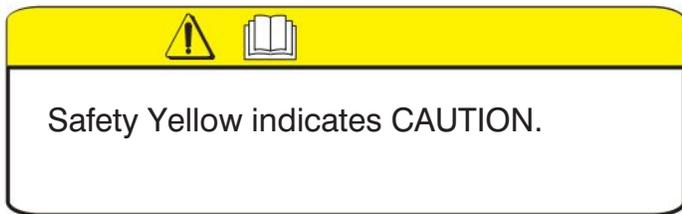
The diagram shows a red horizontal bar at the top of a white rounded rectangle. Inside the bar are two icons: a warning triangle and a manual icon. An arrow points from the text 'Safety Red' to the bar.



Safety Orange indicates WARNING.

Safety Orange

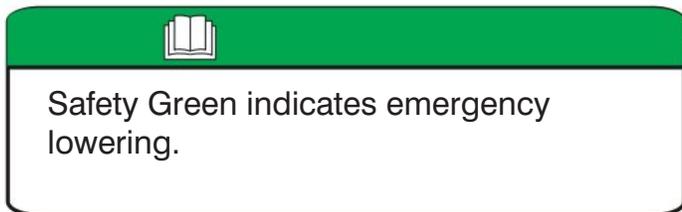
The diagram shows an orange horizontal bar at the top of a white rounded rectangle. Inside the bar are two icons: a warning triangle and a manual icon. An arrow points from the text 'Safety Orange' to the bar.



Safety Yellow indicates CAUTION.

Safety Yellow

The diagram shows a yellow horizontal bar at the top of a white rounded rectangle. Inside the bar are two icons: a warning triangle and a manual icon. An arrow points from the text 'Safety Yellow' to the bar.



Safety Green indicates emergency lowering.

Safety Green

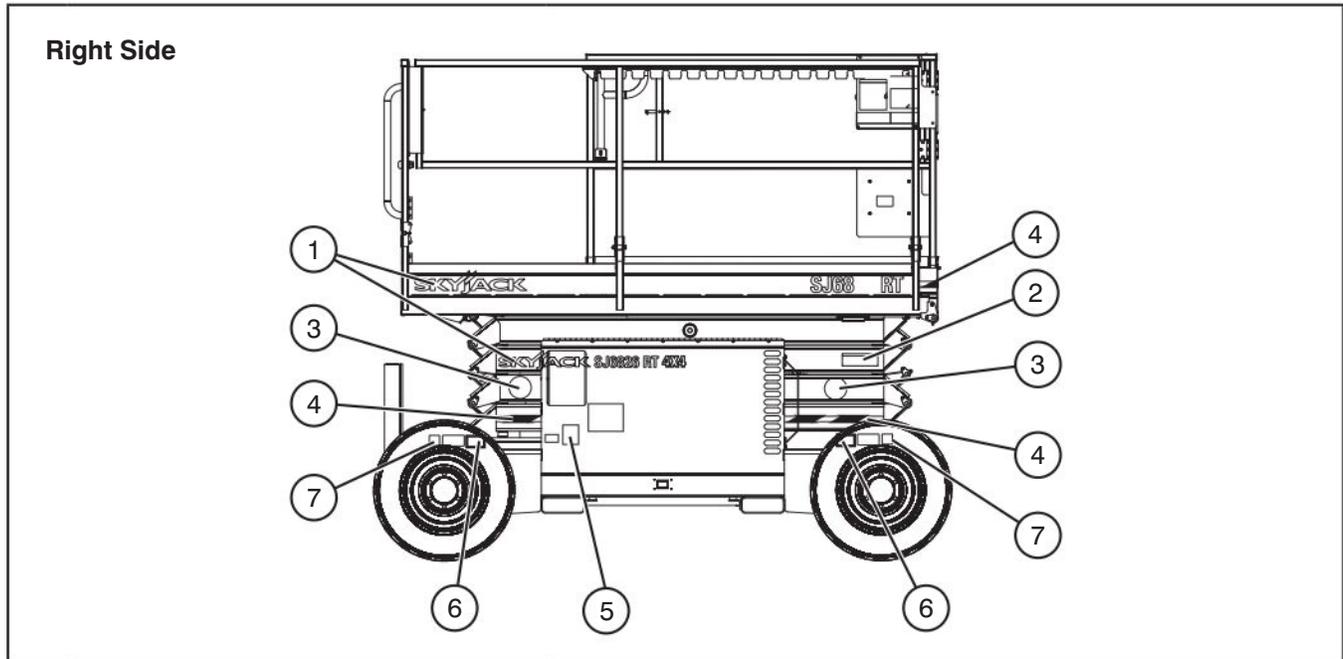
The diagram shows a green horizontal bar at the top of a white rounded rectangle. Inside the bar is one icon: a manual icon. An arrow points from the text 'Safety Green' to the bar.



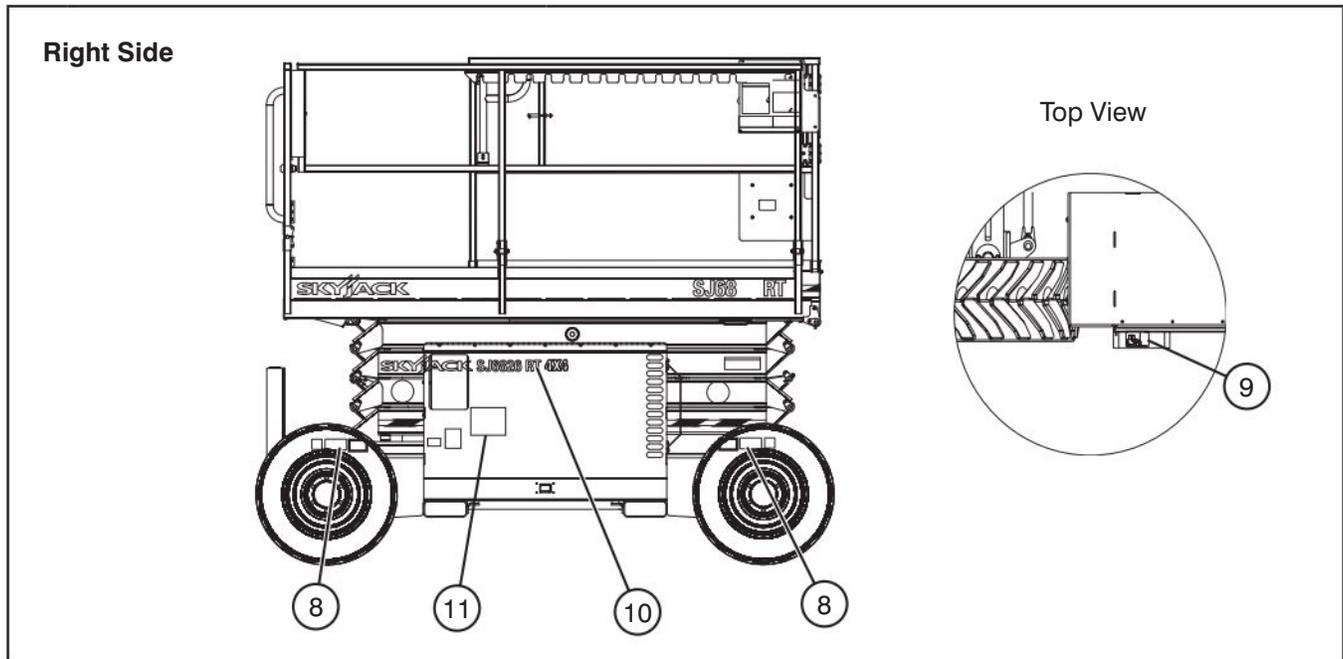
Safety Blue indicates safety information.

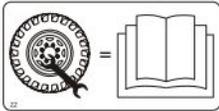
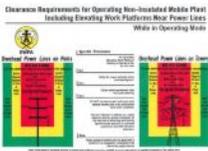
Safety Blue

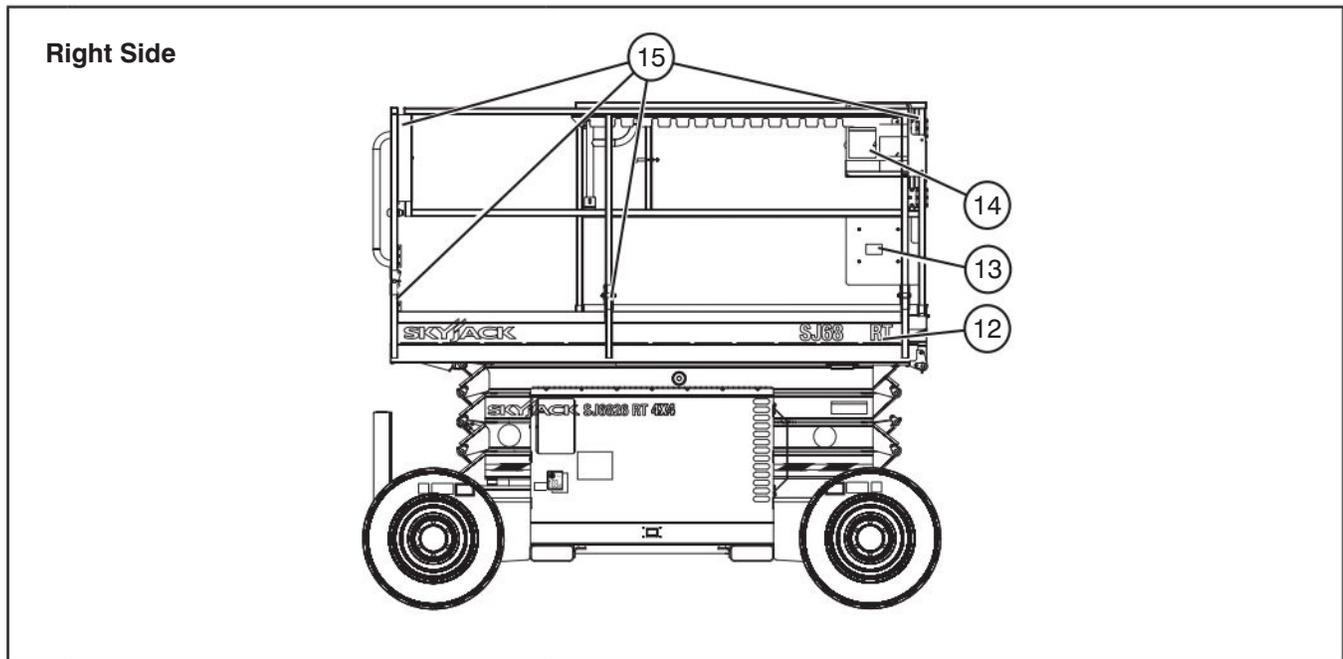
The diagram shows a blue horizontal bar at the top of a white rounded rectangle. Inside the bar is one icon: a manual icon. An arrow points from the text 'Safety Blue' to the bar.



No.	Label Pictorial	Description
1		Skyjack Logo Skyjack
2		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		Sound Power Level Guaranteed maximum sound power level
6		Foam-filled Tire Indicates foam-filled tire only.
7		Wheel Load Indicates rated wheel load.

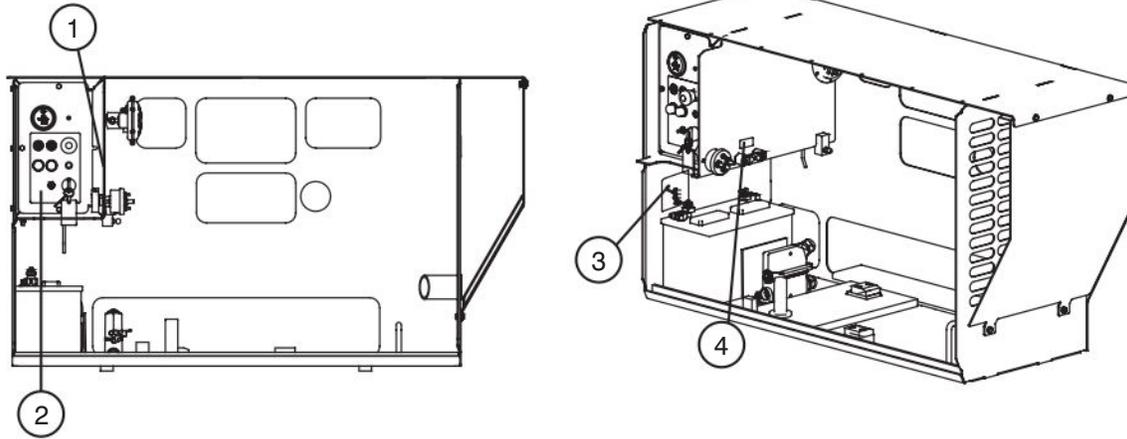


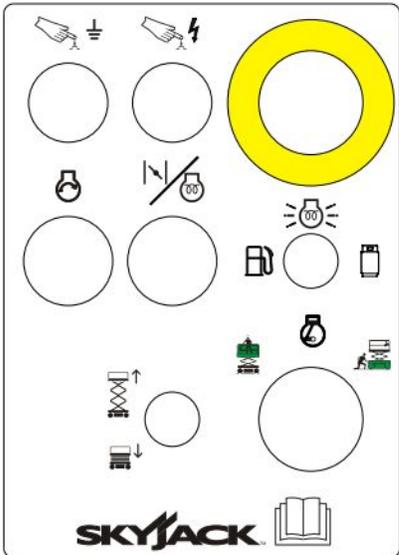
No.	Label Pictorial	Description
8		<p>Wheel Specifications</p> <p>Refer to manual for wheel type, offset, pressure and torque.</p>
9		<p>Forklift Pocket</p> <p>Insert fork fully into pocket to lift MEWP.</p>
10	<p>SJ6832 RT 4X4</p>	<p>Model Number*</p> <p>Product Identifier *Model number will vary, may not be as shown.</p>
11		<p>EWPA Clearance Requirements</p> <p>Clearance requirements for operating non-insulated mobile plant, including elevating work platforms near power lines.</p>

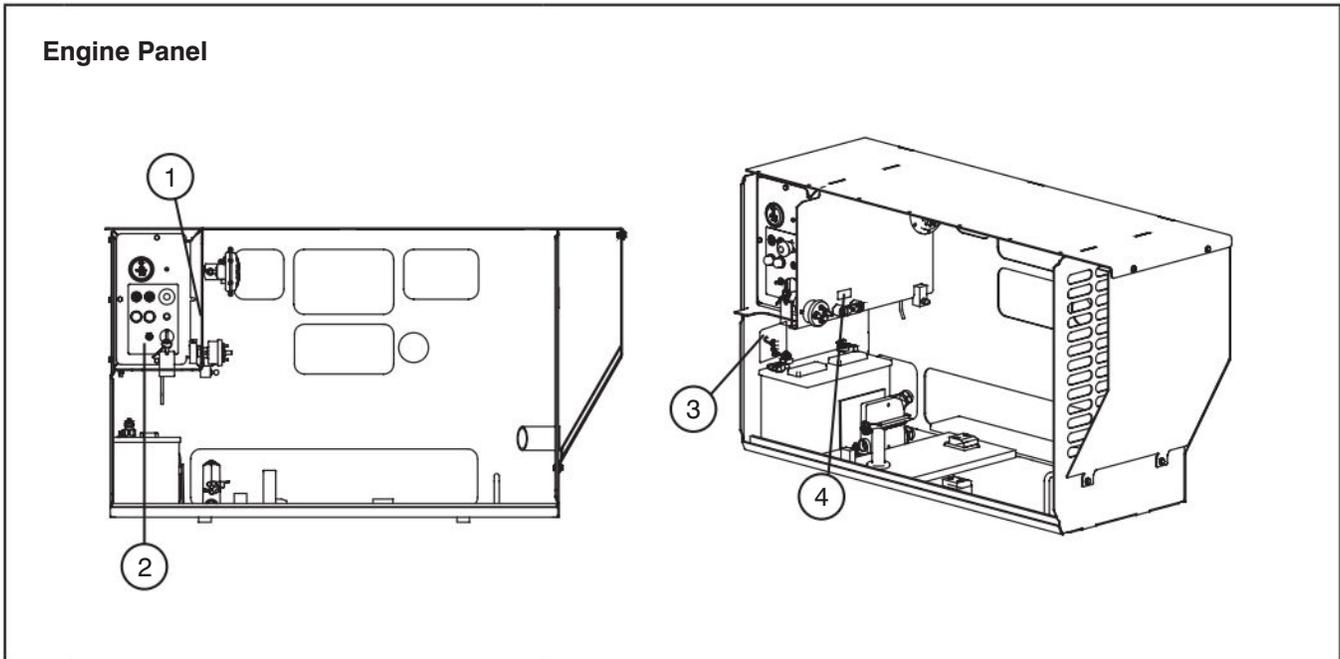


No.	Label Pictorial	Description
12		<p>Model Number*</p> <p>Product Identifier *Model number will vary, may not be as shown.</p>
13		<p>Manual Storage Box</p> <p>Indicates location of operating manual.</p>
14		<p>Hazard Identification</p> <p>Refer to Section 1: Safety Rules. Read and understand the outlined risks associated with this work platform prior to operation.</p>
15		<p>Railing Pins (Vertical)</p> <p>WARNING! Falling Hazard. Ensure hinged railing is pinned.</p>

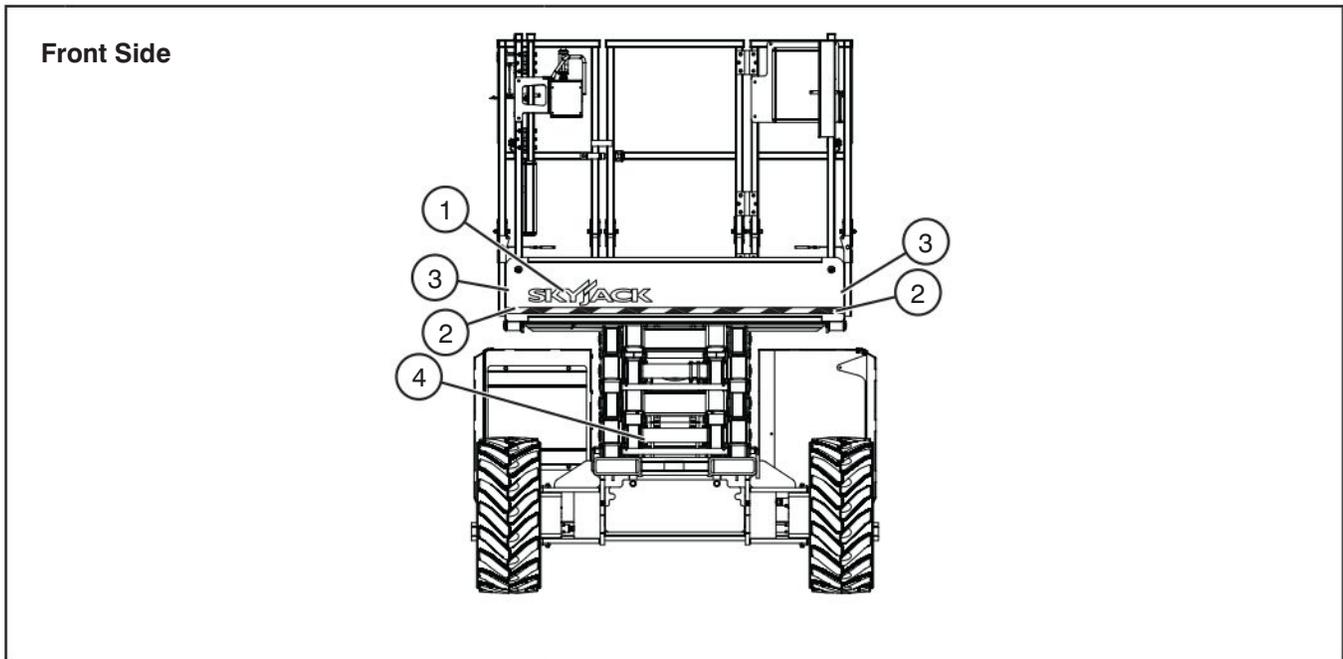
Engine Panel

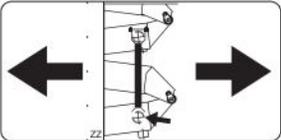


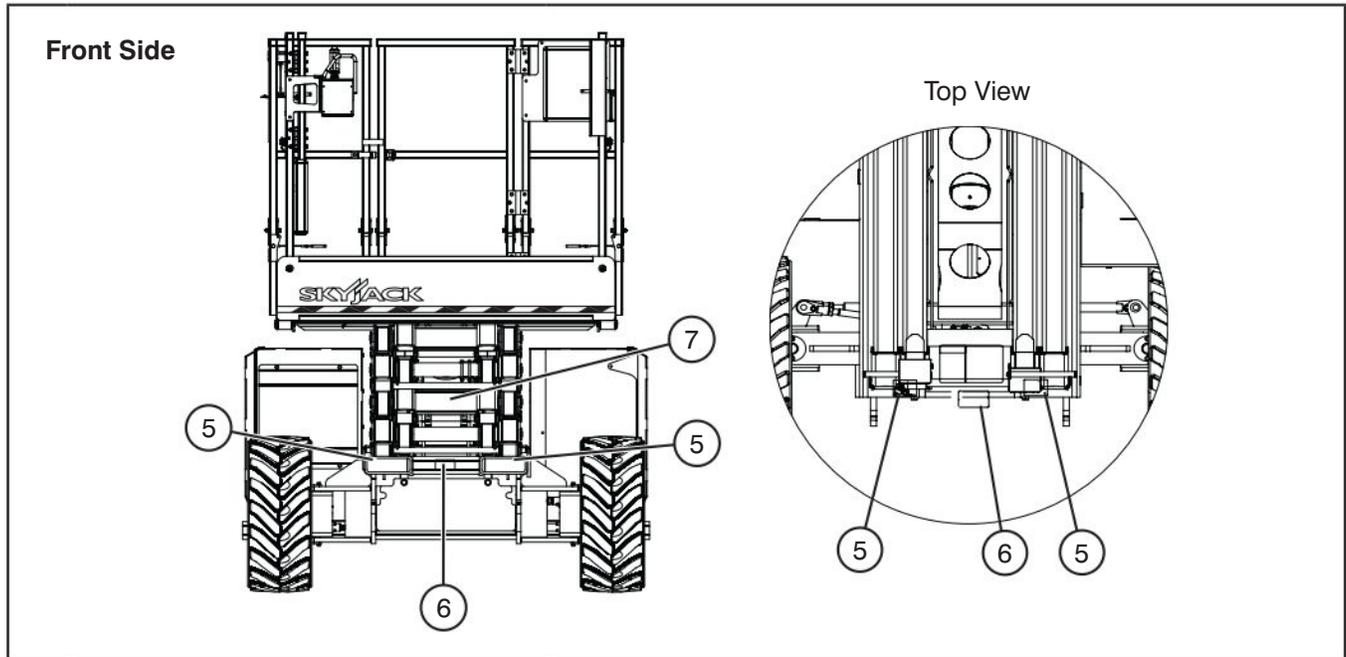
No.	Label Pictorial	Description
1		<p>Main Power Disconnect</p> <p>Main power disconnect switch</p>
2		<p>Electrical Panel SJ68xxRT</p> <p>Push “” to reset ground circuit breaker.</p> <p>Push “” to reset power circuit breaker.</p> <p>Push “” to stop engine and disable controls (Emergency Stop).</p> <p>Light indicates controls enabled.</p> <p>Push and hold “” to start engine.</p> <p>Push and hold “” to operate choke (dual fuel) or “” glow plugs (diesel).</p> <p>Select “” gasoline or “” propane. Light “” indicates glow plug operation (diesel).</p> <p>Select “” to raise or “” to lower platform.</p> <p>Select “” to enable platform controls, “” to allow engine run with no controls active or “” to enable base control console.</p> <p>Read operating manual. </p>

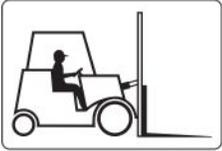


No.	Label Pictorial	Description
3		<p>Battery Fuse Assembly</p> <p>Assemble fuse as shown. Torque to value indicated.</p>
4		<p>Fuse</p> <p>Fuse location</p>

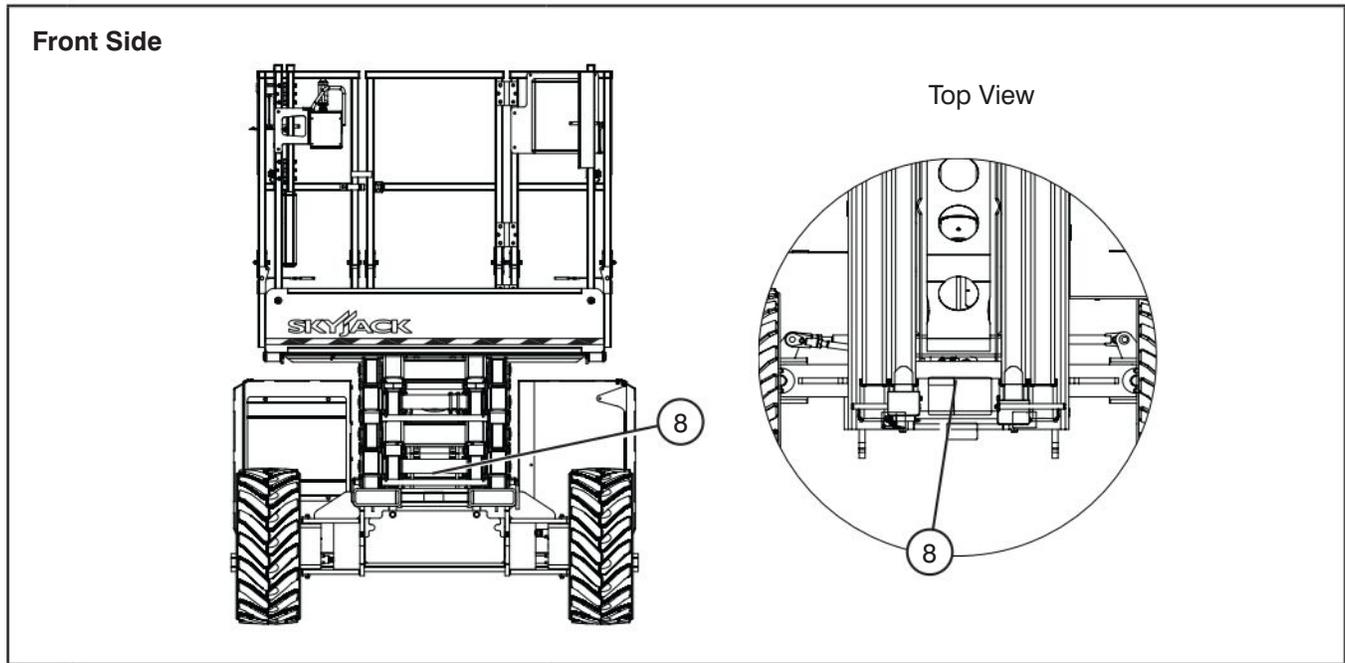


No.	Label Pictorial	Description
1		<p>Skyjack Logo Skyjack</p>
2		<p>Caution Tape Stripe Caution stripe</p>
3		<p>Harness Anchorage Anchor safety belt/harness tethers here.</p>
4		<p>Maintenance Support Deploy maintenance support here.</p>

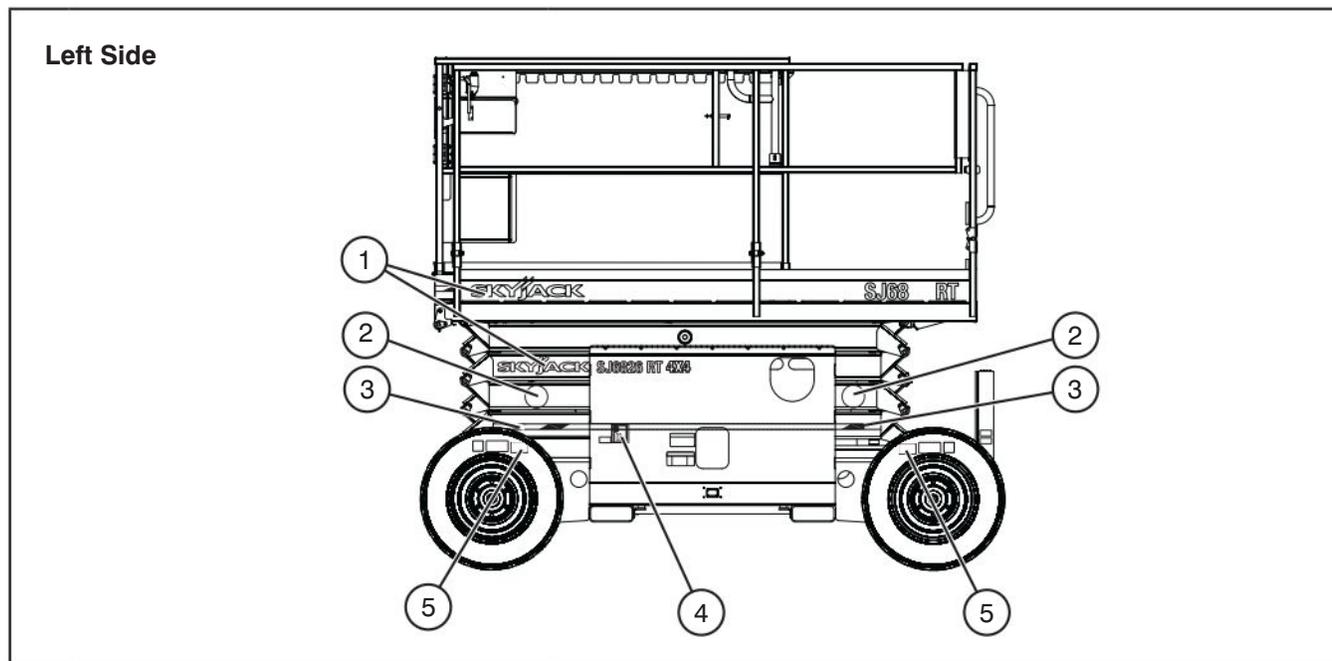


No.	Label Pictorial	Description
5		<p>Forklift Pocket</p> <p>Insert fork fully into pocket to lift MEWP.</p>
6		<p>Lift and Tie Down Points</p> <p>Only use these points for lifting or tying down.</p>
7		<p>Serial Plate</p> <p>Product identification and specifications</p>

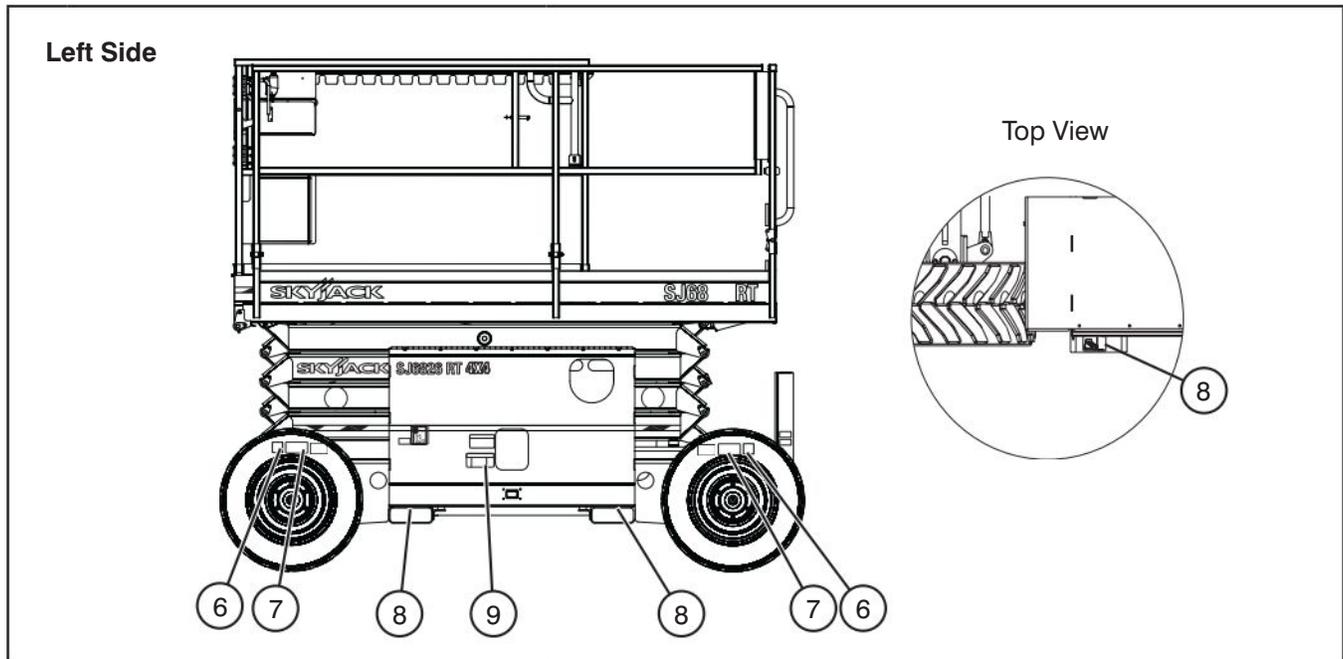
Labels and Nameplates - Models 6826 & 6832

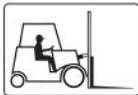
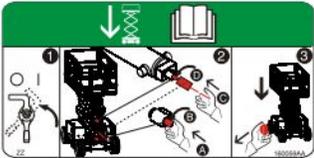


No.	Label Pictorial	Description
8		<p>How to engage maintenance support for inspection or maintenance. Refer to Operating manual.</p> <ol style="list-style-type: none"> 1. Remove all material from platform. 2. Raise platform until there is adequate clearance to swing down maintenance support. 3. Swing maintenance support down from storage bracket into a vertical position. Lower platform until the bottom end of maintenance support rests on the lower cross bar. 4. Maintenance support is now secured. <ul style="list-style-type: none"> (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.

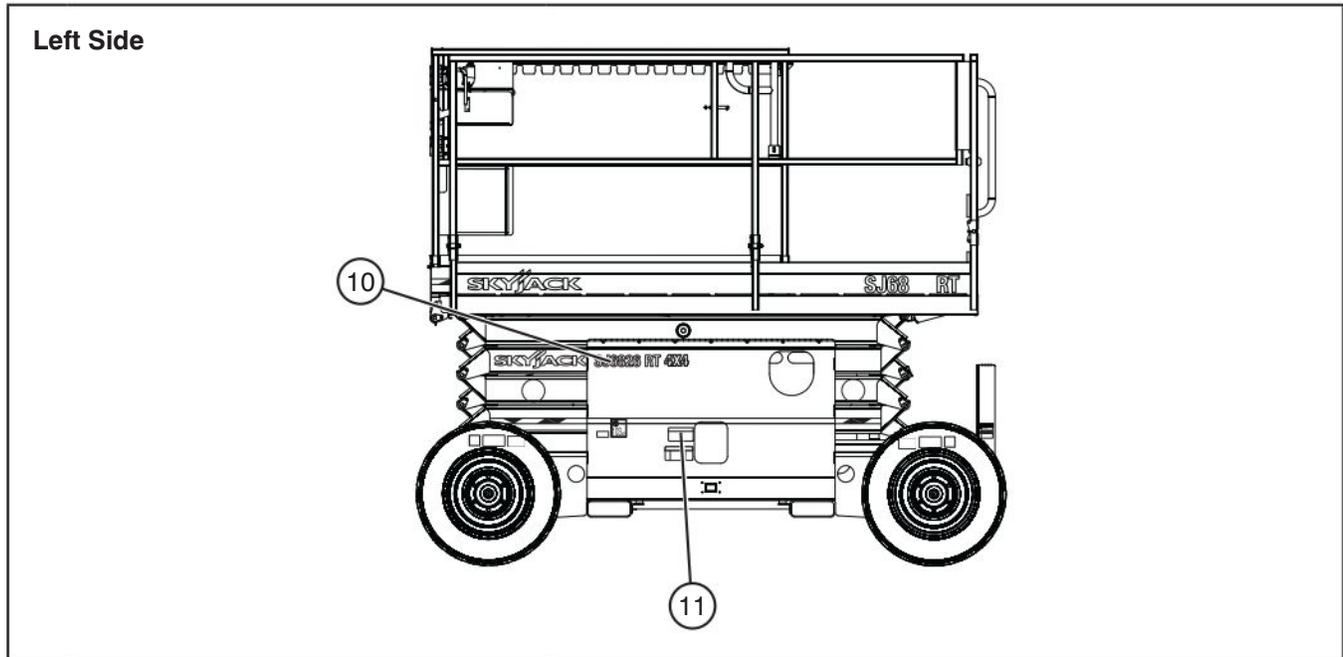


No.	Label Pictorial	Description
1		<p>Skyjack Logo Skyjack</p>
2		<p>Keep Clear Keep clear. Stay away from MEWP when in operation.</p>
3		<p>Caution Tape Stripe Caution stripe</p>
4		<p>Sound Power Level Guaranteed maximum sound power level</p>
5		<p>Foam-filled Tire Indicates foam-filled tire only.</p>

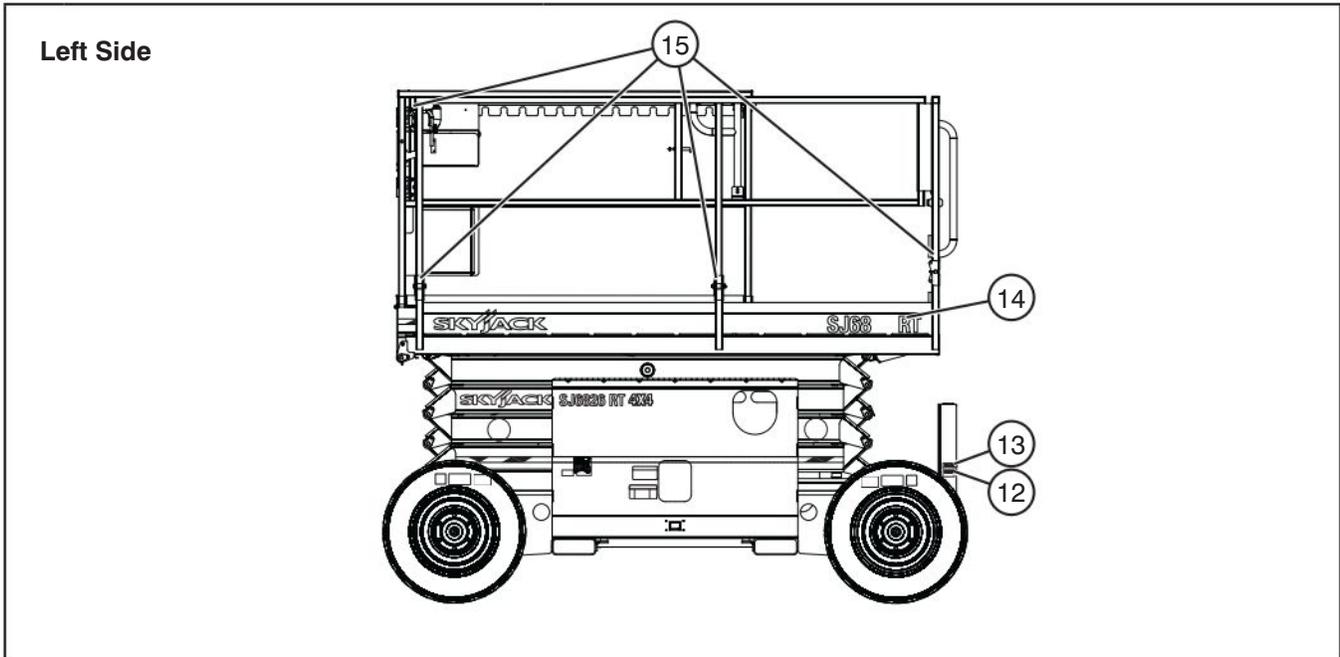


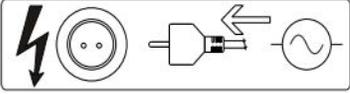
No.	Label Pictorial	Description
6		<p>Wheel Load Indicates rated wheel load.</p>
7		<p>Wheel Specifications Refer to manual for wheel type, offset, pressure and torque.</p>
8		<p>Forklift Pocket Insert fork fully into pocket to lift MEWP.</p>
9		<p>Emergency Lowering Procedure Refer to Operating manual.</p> <ol style="list-style-type: none"> 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: <ul style="list-style-type: none"> (A) push (B) turn knurled knob counterclockwise. 3. To lower the platform, pull out emergency lowering valve located on the outside of the hydraulic tray.

Labels and Nameplates - Models 6826 & 6832

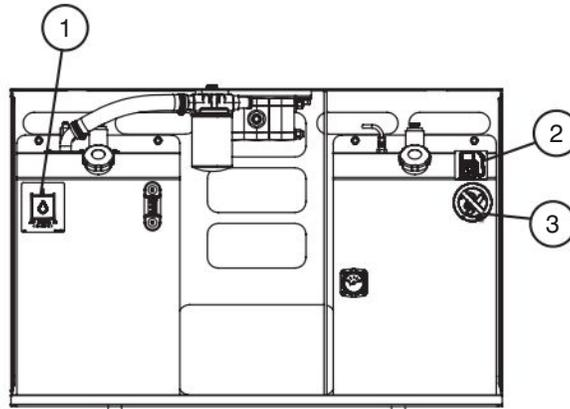


No.	Label Pictorial	Description
10		<p>Model Number*</p> <p>Product Identifier *Model number will vary, may not be as shown.</p>
11		<p>Winching/Towing/Pushing Procedure Refer to Operating manual.</p> <ol style="list-style-type: none"> 1. Block or chock wheels to prevent aerial platform from rolling. 2. Turn main power disconnect switch to off position. 3. Locate free-wheeling valve, brake valve, and pump. 4. Open free-wheeling valve by turning it counterclockwise. 5. Push in black knob. 6. Pump by pushing red knob in and out until firm resistance is felt. Brake is now released. 7. Push/tow/winch to desired location. 8. Block or chock wheels to prevent aerial platform from rolling. 9. Reset brake by pulling out black knob. 10. Close free-wheeling valve by turning it clockwise.

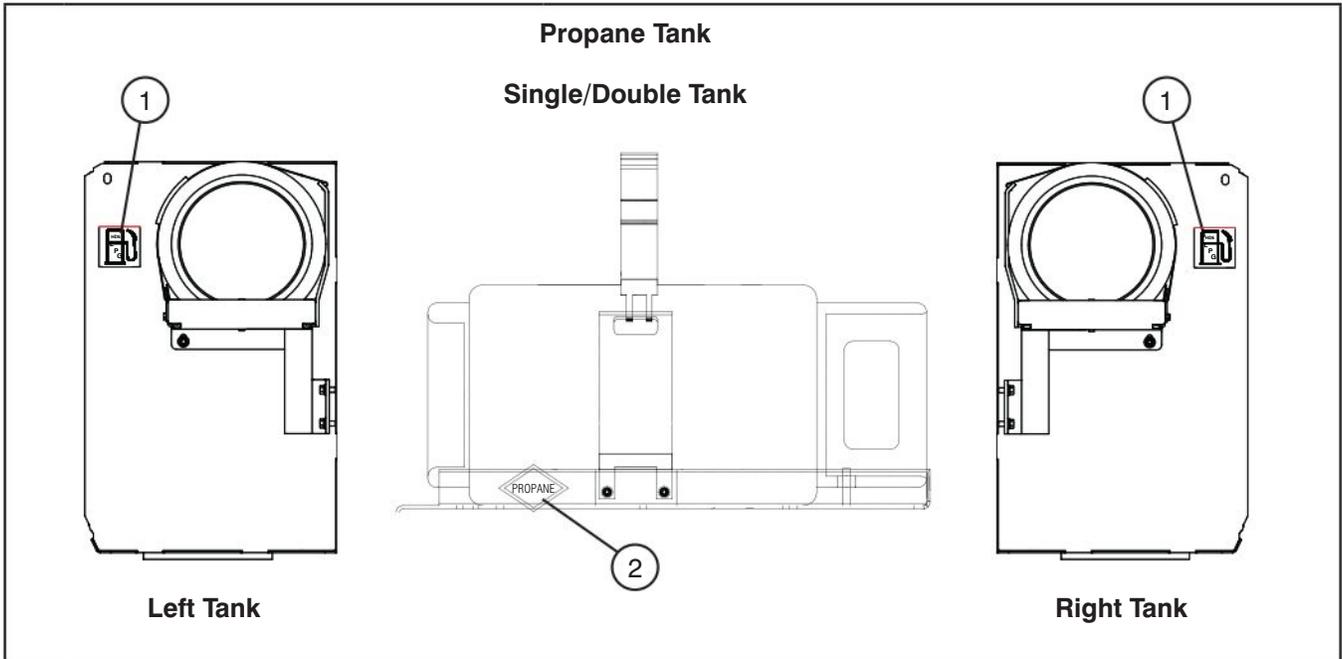


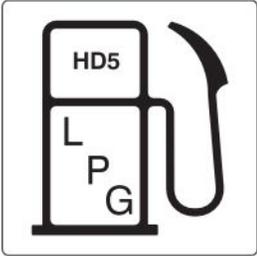
No.	Label Pictorial	Description
12		<p>Connect AC Supply</p> <p>Connect AC supply here.</p>
13		<p>Connect Air Supply</p> <p>Connect platform air supply here.</p>
14	<p>SJ6832 RT</p>	<p>Model Number*</p> <p>Product Identifier *Model number will vary, may not be as shown.</p>
15		<p>Railing Pins (Vertical)</p> <p>WARNING! Falling Hazard. Ensure hinged railing is pinned.</p>

Hydraulic/Fuel Compartment

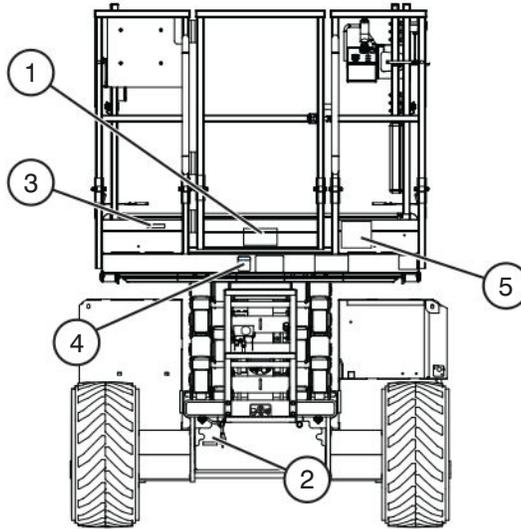


No.	Label Pictorial	Description
1		<p>Hydraulic Oil ATF Dexron III</p> <p>Replace hydraulic fluid with ATF Dexron III only.</p>
2		<p>Diesel</p> <p>Use diesel fuel only.</p>
		<p>Unleaded Fuel</p> <p>Use unleaded gasoline only.</p>
3		<p>No Smoking</p> <p>Do not smoke near this location.</p>

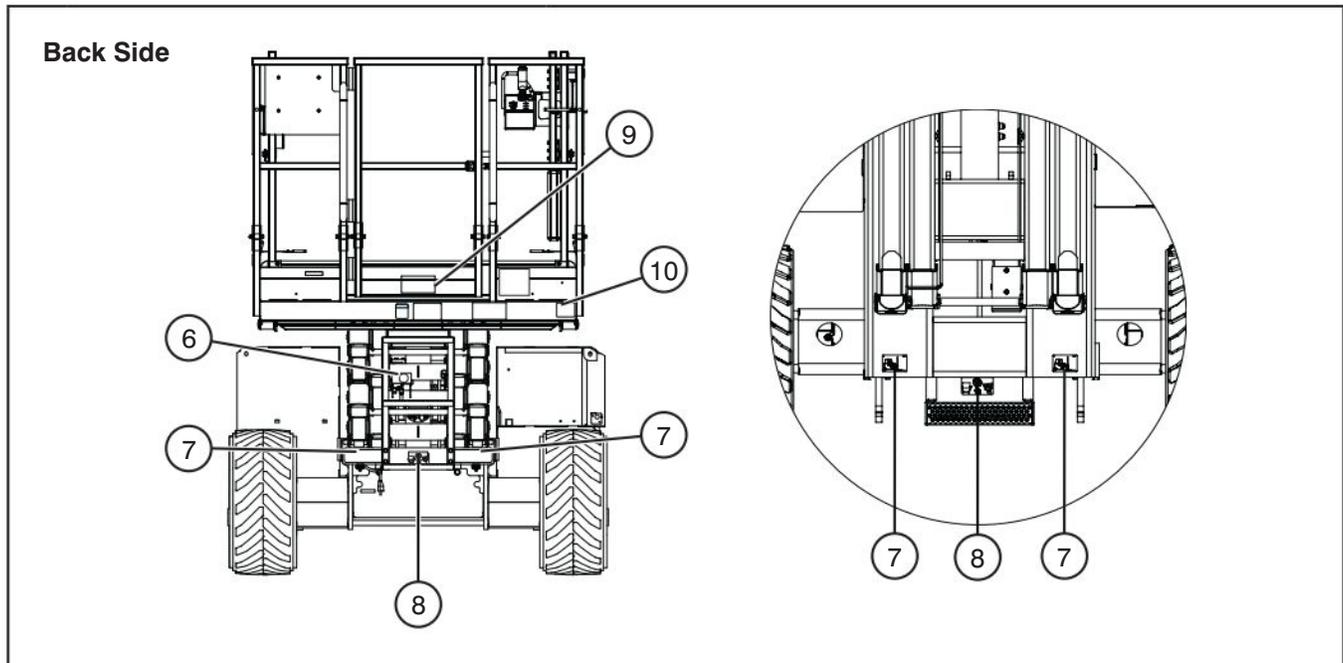


No.	Label Pictorial	Description
1		<p>Liquid Propane Use liquid propane only.</p>
2		<p>Propane Indicates propane storage location.</p>

Back Side

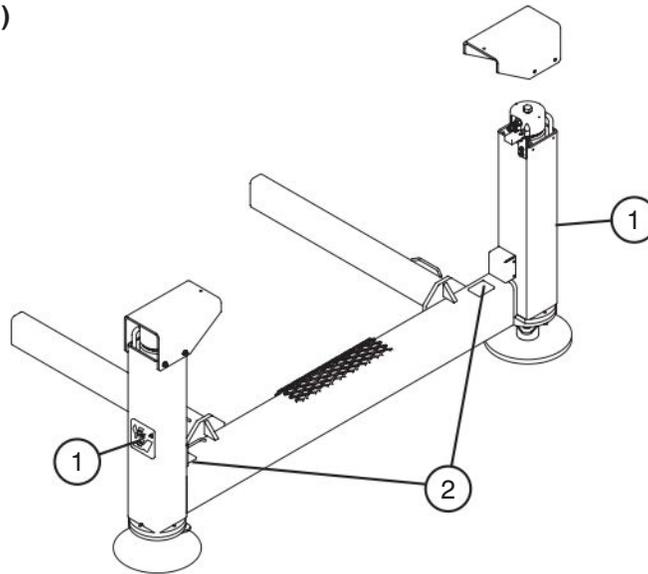


No.	Label Pictorial	Description
1	<p>N (lb) m/s (km/h) (mph)</p>	<p>Horizontal Load Rating</p> <p>Apply no more than the indicated side load. Operate below indicated wind speed only.</p>
2		<p>Connect AC Supply</p> <p>Connect AC supply here.</p>
3		<p>Connect Air Supply</p> <p>Connect platform air supply here.</p>
4		<p>Operator's Daily Inspection</p> <p>Refer to the Operating manual. Perform visual inspection and function tests at the beginning of each shift. Refer to Section 4: Maintenance and Inspection Schedule.</p>
5		<p>EWPA Clearance Requirements</p> <p>Clearance requirements for operating non-insulated mobile plant, including elevating work platforms near power lines.</p>

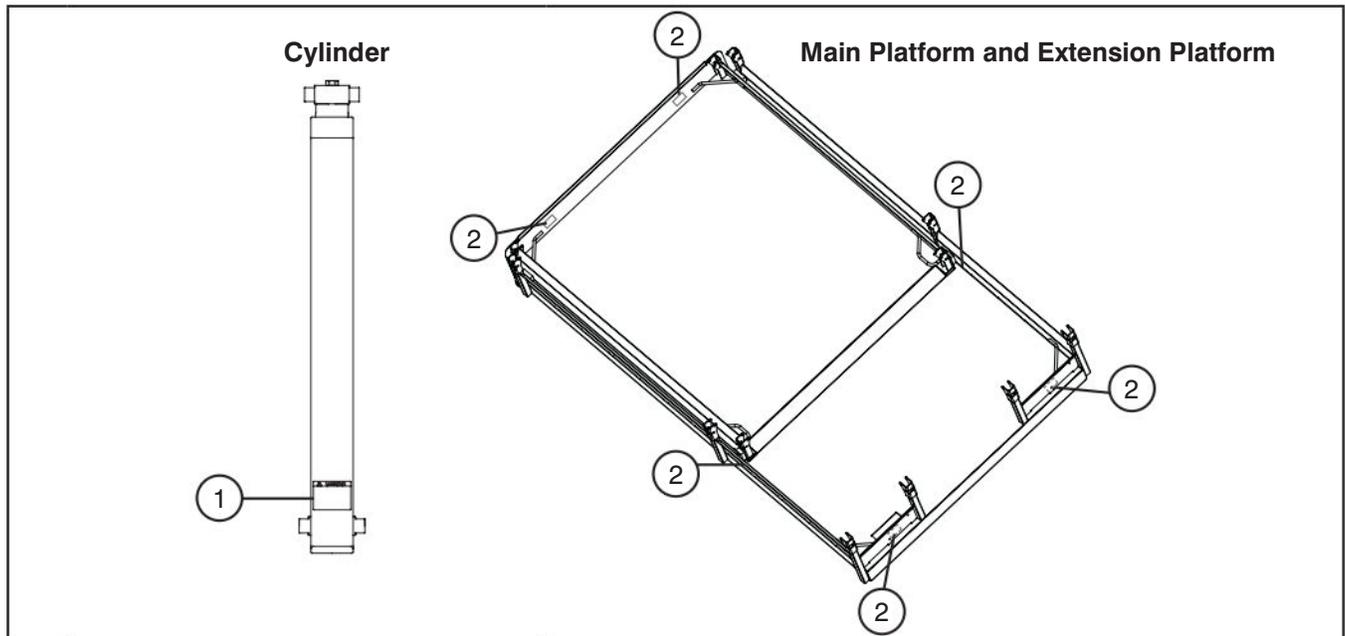


No.	Label Pictorial	Description
6		<p>Warning - Do Not Alter</p> <p>Do not alter or disable limit switches or other safety devices.</p>
7		<p>Forklift Pocket</p> <p>Insert fork fully into pocket to lift MEWP.</p>
8		<p>Lift and Tie Down Points</p> <p>Only use these points for lifting or tying down.</p>
9		<p>Platform Capacity</p> <p>Platform capacity label for 6832RT</p> <p>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.</p>
10		<p>No Jewelry</p> <p>Caution - Do not wear jewelry.</p>

Outriggers (If Equipped)

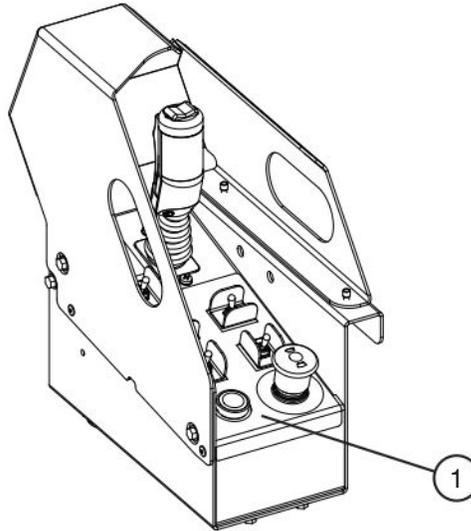


No.	Label Pictorial	Description
1		<p>Crushing Hazard Danger - Crushing hazard</p>
2		<p>Warning - Do Not Alter Do not alter or disable limit switches or other safety devices.</p>



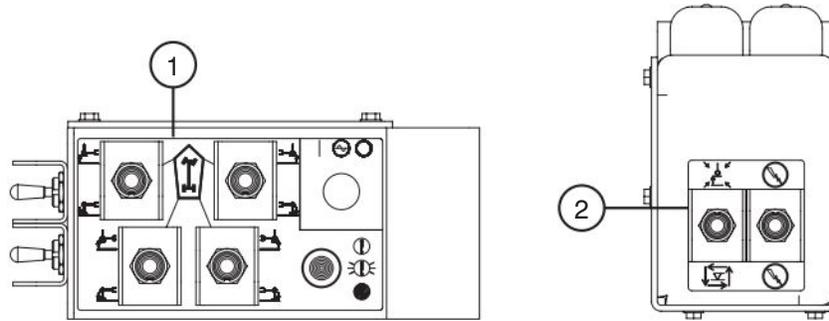
No.	Label Pictorial	Description
1		<p>Orifice Installed</p> <p>Orifice installation warning</p>
2		<p>Harness Anchorage</p> <p>Anchor safety belt/harness tethers here.</p>

Platform Control Console



No.	Label Pictorial	Description
1		<p>Platform Control Console</p> <p>Squeeze “” trigger to enable controller.</p> <p>Operate “” rocker switch to steer.</p> <p>Move controller forward “” to raise or backward “” to lower platform.</p> <p>Move controller forward “” to drive forward or backward “” to drive reverse.</p> <p>Select either “” drive mode with low speed (high torque) or “” drive mode with high speed (low torque).</p> <p>Select either “” lift mode or “” drive mode.</p> <p>Select either “” low or “” high engine throttle speed.</p> <p>Select and hold “” to start engine.</p> <p>Select and hold “” to operate choke (dual fuel) or “” glow plugs (diesel).</p> <p>Push “” to sound horn.</p> <p>Push “” to stop engine and disable controls (Emergency Stop). Light indicates controls enabled.</p> <p>Read “” operating manual.</p>

Outrigger Control Console (If Equipped)



No.	Label Pictorial	Description
1		<p>Manual Outrigger Control Console with Generator</p> <p>Select “” retract or “” extend for each outrigger.</p> <p>Select “” to enable or “” to disable generator.</p> <p>Indicates leveling system status:</p> <ul style="list-style-type: none"> 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		<p>Automatic Outrigger Control Console</p> <p>Select “” to retract all outriggers or “” to extend all outriggers with automatic leveling.</p> <p>Select “” to enable manual or automatic outrigger controls.</p>

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