



This manual is based on Serial Number(s):

SJ 46AJ/51AJ 95 000 853 & Above SJ 63AJ 95 300 317 & Above

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

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The Safety Alert Symbol identifies important safety messages on Mobile Elevating Work Platform (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.

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

Mobile Elevating Work Platform (MEWP) Definition

A mobile device that has an adjustable position platform supported from ground level by a structure.

Purpose of Equipment

The SKYJACK Articulating Boom Series (Models SJ 46AJ, SJ 51AJ & SJ 63AJ) 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 articulating series work platform 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

2: 61 (0) 28786 3200 **3**: 61 (0) 28786 3222

Include the model and serial number for each applicable MEWP.

Scope of this Manual

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



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

Operator Safety Reminders

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

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

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

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

Electrocution Hazard

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

DO NOT USE THE MEWP AS A GROUND FOR WELDING.
DO NOT OPERATE THE MEWP DURING LIGHTNING OR STORMS.
DO NOT OPERATE THE MEWP NEAR POWER LINES. MAINTAIN A MINIMUM SAFE APPROACH
DISTANCE (MSAD) FROM ENERGIZED POWER LINES.





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

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Safety Precautions

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



WARNING

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

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



 AVOID entanglement with ropes, cords or hoses.



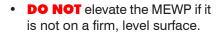
 AVOID falling. Stay within the boundaries of the guardrails.

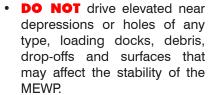


 DO NOT raise the MEWP or operate elevated in windy or gusty conditions that exceed the limits specified in Section 4, Table 4.5.



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







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



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 drive elevated on a soft or uneven surface.



 DO NOT ascend or descend a grade steeper than 45%. Boom elevated driving must only be done on firm, level surfaces.



Safety Precautions (Continued)

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

 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 4.5.



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



• **DO NOT** climb on boom arm assembly. It is prohibited.



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



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



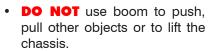
 AVOID crushing hazards. Be aware of crushing hazards when lifting or driving. Keep all body parts inside the MEWP.



- **BE AWARE** of blind spots when operating the MEWP.
- ENSURE that there are no personnel or obstructions in the path of travel, including blind spots.



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





 DO NOT raise the MEWP while it is on a truck, forklift or other device or vehicle.



- **STUNT** driving and horseplay are prohibited.
- 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 alter or disable limit switches or other safety devices.
- DO NOT use the MEWP without guardrails, locking pins and the entry gate in place.

Safety Precautions (Continued)

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

 DO NOT exceed the rated capacity of the MEWP.



- DO NOT 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.

• **DO NOT** distribute load unevenly.



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



 DO NOT use under influence of alcohol or drugs.



 DO NOT leave MEWP unattended with key in key switch.



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

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.



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.

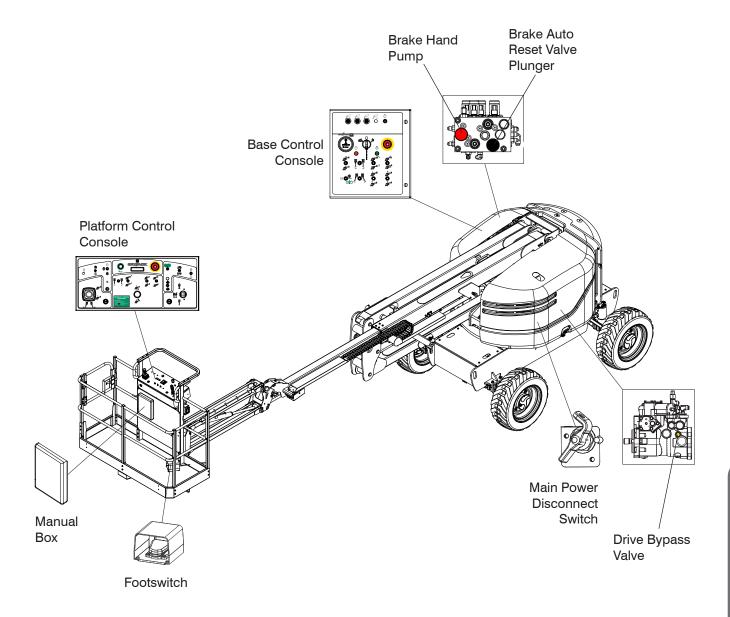
2.1a Familiarization of Articulated Boom Series - SJ46AJ & SJ51AJ



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

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

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





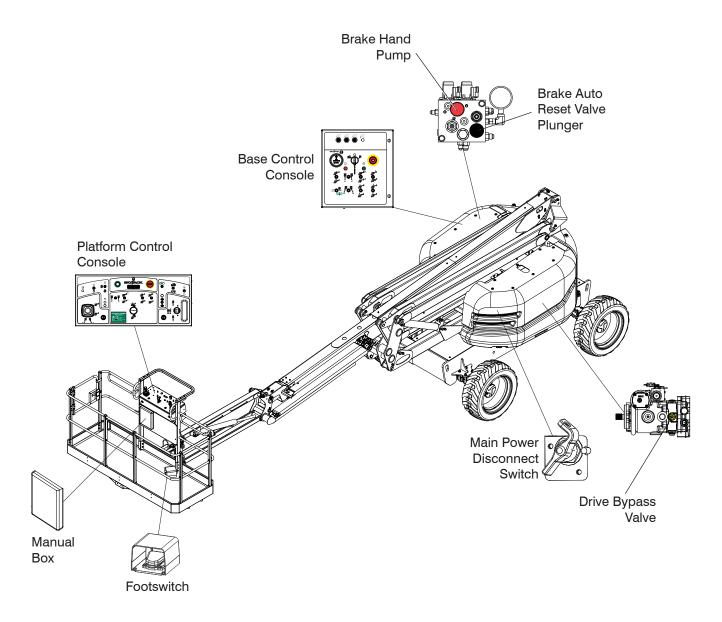
2.1b Familiarization of Articulated Boom Series - SJ63AJ



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

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

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



2.2 Component Identification

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

2.2-1 Main Power Disconnect Switch & Battery Charge Indicator

This main power disconnect switch and battery charge indicator are located in the engine compartment near the battery.

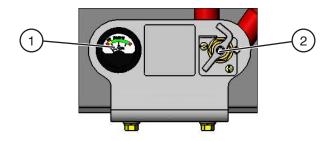


Figure 2-1. Main Power Disconnect Switch & Battery Charge Indicator

- Battery Charge Indicator When main power disconnect switch is in "|" on position, the battery voltage is displayed on the charge indicator. Refer to Section 2.4-2 for instructions on different voltage levels of the battery.
- 2. Main Power Disconnect Switch This switch, when in "O" off position, disconnects power to all circuits. Switch must be in "I" on position to operate any circuit. Turn switch "O" off when transporting MEWP.

2.2-2 Tilt Sensor

The tilt sensor is located on top or inside the base control console. It is designed to prevent driving when MEWP is on a slope greater than a predetermined limit.



WARNING

If MEWP becomes tilted causing alarm to sound, the platform must be fully lowered immediately. Ensure that MEWP is on a firm level surface before operating the MEWP. Refer to Section 3.11 for instructions regarding recovery from an inclined position.

2.2-3 Drive Bypass Valve

This valve is located on the inboard side of the drive pump and can be identified with a yellow paint mark on it.

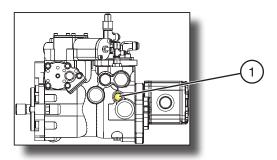


Figure 2-2a. Drive Bypass Valve (Models SJ46AJ & SJ51AJ)

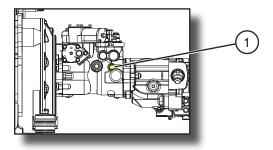


Figure 2-2b. Drive Bypass Valve (Model SJ63AJ)

 Drive Bypass Valve with Override Stems - This valve, when loosened counterclockwise (two revolutions for SJ46AJ & SJ51AJ, or 90 degrees for SJ63AJ), is used to override drive relief valves so that the MEWP can be loaded or unloaded from a trailer using a winch line. Refer to Section 2.5 for Winching and Towing procedure.



2.2-4 Brake System

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

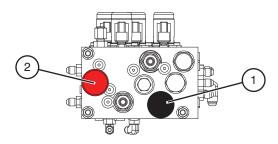


Figure 2-3a. Brake System (Models SJ46AJ & SJ51AJ)

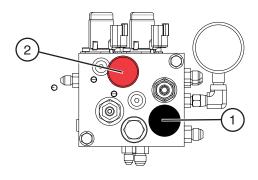


Figure 2-3b. Brake System (Model SJ63AJ)

- 1. Brake Auto Reset Valve Plunger
- 2. Brake Hand Pump

2.2-5 Differential Lock Switch

This switch is located on the platform control console. The differential locking system provides more traction by providing equal drive to each wheel regardless of traction. Differential locks are used to prevent from getting stuck when driving on loose, muddy, or rocky terrain. Refer to Section 2.4-4 for instruction regarding testing differential lock switch.



WARNING

Before engaging differential lock, ensure drive/steer controller is in neutral position.

2.2-6 Footswitch

The footswitch is located on the floor of the platform. When depressed and held, it enables controls on platform control console.



Figure 2-4. Footswitch

NOTE

The footswitch is equipped with a 15-second anti-tiedown feature that deactivates footswitch when operator depresses it for 15 seconds without activating any function.

2.2-7 Platform Load Sensing System

The platform load sensing system is a device that senses for an overload on the platform before the system disables boom and drive functions. This system is active when MEWP is powered on.

When the platform is overloaded while in work mode (boom is raised greater than 15 degrees from horizontal or is extended greater than 6 inches), the load sensing system will disable all normal functions and signal the operator with an indicator light and an audible alarm.

When the platform is overloaded while in travel mode, the load sensing system will signal the operator with an indicator light and an audible alarm but will not disable any normal functions.

The following table shows the progression of warnings, indicated to the operator, up to the point of overload.

Overload Status Chart

Weight	Indicator Light	Audible Alarm	MEWP System
93%	On	Off	Enabled
100%	Flashing	Off	Enabled
≥ 100% (Work Mode)	Flashing	Pulsing	Disabled
≥ 100% (Travel Mode)	Flashing	Pulsing	Enabled

NOTE

If the platform is overloaded due to contact with an overhead obstruction, do one of the following:

- Remove the obstruction from the platform, then after a four-second delay normal functions can be resumed.
- Use the emergency power unit at the base control console to release the platform from the obstruction.

2.2-8 Base Control Console

This control console is located in the panel mounted in the control compartment.

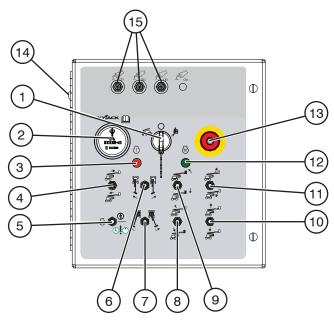


Figure 2-5. Base Control Console

- 1. Base/Off/Platform Key Switch This three-way selector switch allows operator to "O" turn off power to MEWP or to activate either "** base or "Platform control console.
- **2. Hourmeter** This gauge records accumulated operating time of engine.
- 3. **Engine Fault -** This light indicates failure in engine control system.
- 4. Fly Boom Extend/Retract Switch This switch controls "extension or "extension or "retraction of fly boom.
- 5. Start/Function Enable/Emergency Power Switch This momentary switch, when held in """ start position, starts engine. When held in """ function enable position, allows base control functions to operate. With engine off, and when held in """ emergency power unit position, allows base control functions to operate using emergency power unit.

- 6. Platform Rotation Switch This switch controls "" left or "," right rotation of platform.
- 7. Turret Rotation Switch This switch controls "left or " right rotation of turret.
- 8. Main Boom Raise/Lower Switch This switch controls "" raising or "" lowering of main boom.
- 9. Platform Leveling Override Switch This switch overrides automatic leveling of platform and controls "" tilting up or "" tilting down of platform.
- 10. Riser Raise/Lower Switch This switch controls "arising or "arising or "lowering of riser."
- 11. Jib Up/Down Switch This switch controls"" up or "" down movement of jib.

2.2-8 Base Control Console (Continued)

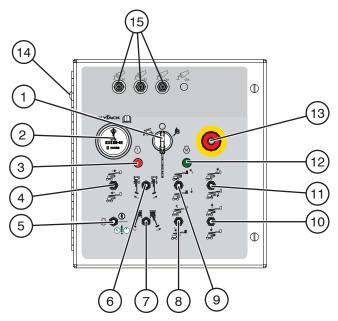


Figure 2-5. Base Control Console

- 12. Glow Plug (Diesel) This light illuminates until glow plugs have completed their timed cycle. When the lamp goes out, the engine is ready to be started.
- 13. Emergency Stop Button This red "mushroom-head" "pushbutton disconnects power to control circuit and shuts engine off.
- **14.** Engine Diagnosis Switch When held in either direction, this switch "!" enables an error blink code for engine control unit (ECU).
- 15. Circuit Breakers In the event of a power overload or positive circuit grounding, the circuit breaker pops out. Push breaker back in to reset.

2.2-9 Platform Control Console

This control console is mounted at front guardrail of the platform. It has the following controls:

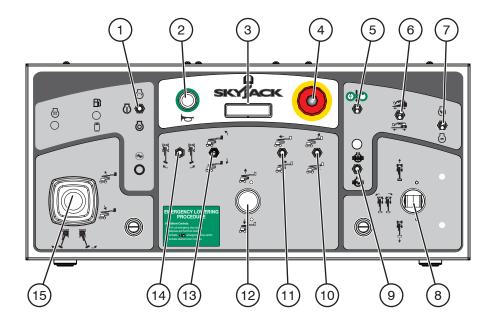
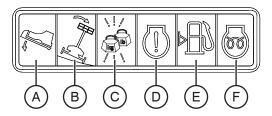


Figure 2-6. Platform Control Console

- 1. Engine Start/On/Off Switch This switch, when held momentarily in "O" start position, starts engine. Once started, the switch returns to "O" on position. When in "O" off position, it turns engine off.
- 2. **Horn Pushbutton** This "pushbutton sounds an automotive-type horn.
- Status Indicator Pilot Lights These lights indicate operational status and errors in any function in the controls/engine.



A. Footswitch - This light illuminates when footswitch is depressed. A 15-second anti-tiedown feature deactivates footswitch when operator depresses it for 15 seconds without activating any function.

- B. Chassis Tilt This light illuminates when the MEWP chassis is at an inclination that activates the tilt sensor. At this inclination, an audible alarm will sound at the platform. Refer to Section 3.11 for instructions regarding recovery from an inclined position.
- C. Overload Light This red light indicates overload status. Refer to Section 2.2-7.
- **D. Engine** This light indicates failure in engine control system.
- E. Fuel This light indicates low fuel level.
- F. Glow Plug (Diesel) This light illuminates until glow plugs have completed their timed cycle. When the lamp goes out, the engine is ready to be started.
- 4. Emergency Stop Button This red "mushroomhead" "pushbutton disconnects power to control circuit and shuts engine off.
- 5. Emergency Power Unit This switch "" enables emergency power unit.
- 6. Torque Switch This switch selects " + + * * low or " + * * high torque.



2.2-9 Platform Control Console (Continued)

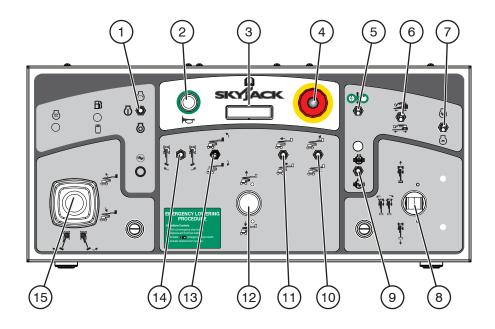


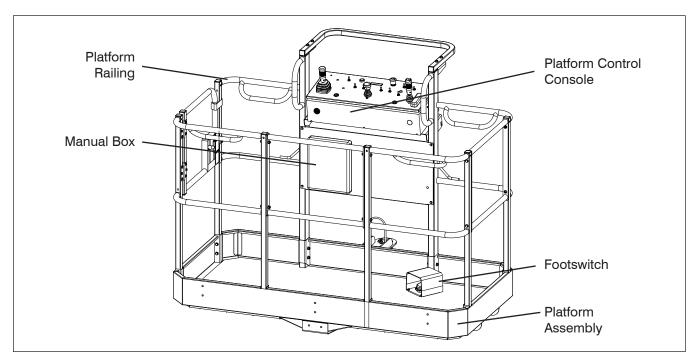
Figure 2-6. Platform Control Console

- 7. Low/High Throttle Switch This switch allows selection between " o" low and " o" high engine throttle speeds.
- controls driving "," forward or ", " backward.

 The rocker switch controls steering "," left or "," right. Internal springs return it to neutral when stick is released.
- 9. Differential Lock Switch This momentary switch, when pushed forward and then released, engages "differential lock and turns differential light on. When pulled backward and then released, disengages "differential lock and turns differential light off.
- 10. Jib Up/Down Switch This switch controls "up or "" down movement of jib.

- 11. Fly Boom Extend/Retract Switch This switch controls "extension or "extension or "retraction of fly boom.
- 12. Riser Raise/Lower Controller This single-axis lever controls "arraising or "aising or "lowering of riser."
- 13. Platform Leveling Override Switch This switch overrides automatic leveling of platform and controls " " tilting up or " " tilting down of platform.
- 14. Platform Rotation Switch This switch controls "" left or "" right rotation of platform.
- 15. Boom/Turret Controller This dual-axis lever controls " raising or " lowering of main boom or rotating " left or " right of turret





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 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:

- boom to platform cable harness
- engine compartment electrical panel
- engine wiring harness
- rotary manifold wiring

2.3-3 Limit Switches

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

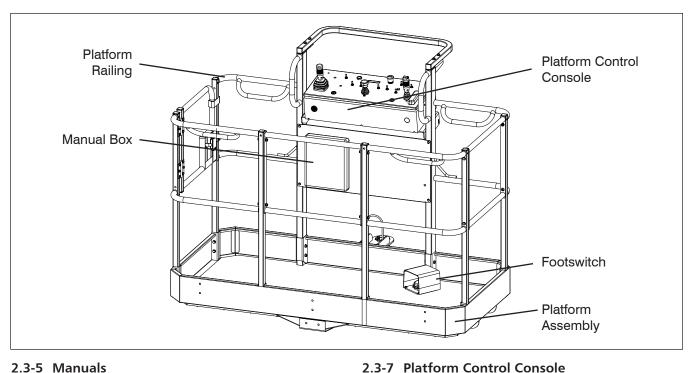
2.3-4 Hydraulic

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





2.3-5 Manuals

Ensure a copy of operating manual and other important documents are 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.

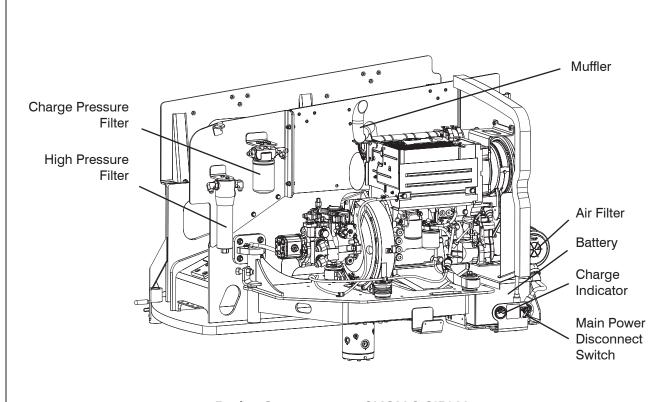
2.3-6 Platform Assembly

- Ensure there are no loose or missing parts and there is no visible damage.
- Ensure all fasteners are securely in place.
- Ensure all railings are properly positioned and secured.
- Ensure gate is in good working order.
- Ensure footswitch is in good working order and has not been modified, disabled or blocked.

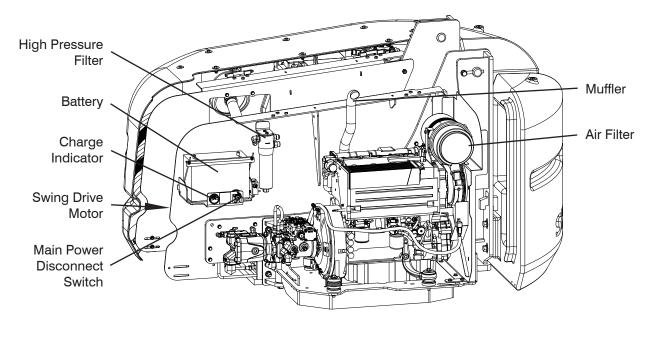


- Ensure all switches/controllers are returned to neutral and are properly secured.
- Ensure there are no loose or missing parts and there is no visible damage.





Engine Compartment - SJ46AJ & SJ51AJ



Engine Compartment - SJ63AJ



2.3-8 Engine Compartment

 Ensure all compartment latches are secure and in proper working order.

Main Power Disconnect Switch

- Turn main power disconnect switch to "O" off position.
- Ensure there are no loose or missing parts and there is no visible damage.
- Ensure all cables are secure and switch is in proper working condition.

Battery

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



WARNING

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



WARNING

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

- 1. Check battery cases 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.
- If applicable, check battery fluid level. If plates are not covered by at least 13 mm (1/2") of solution, add distilled or demineralized water.
- 5. Replace battery if damaged or incapable of holding a lasting charge.



WARNING

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

Charge Indicator

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

High Pressure Filter

Ensure housing is secure and shows no visible damage or leakage.

Hydraulic Pumps

- 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.

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. For models SJ46AJ and SJ51AJ, ensure that quick release pin is 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. Refer to Table 4.2b for recommended oil type.

Engine Air Filter

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

Fuel Leaks

- Ensure that there no fuel leaks.

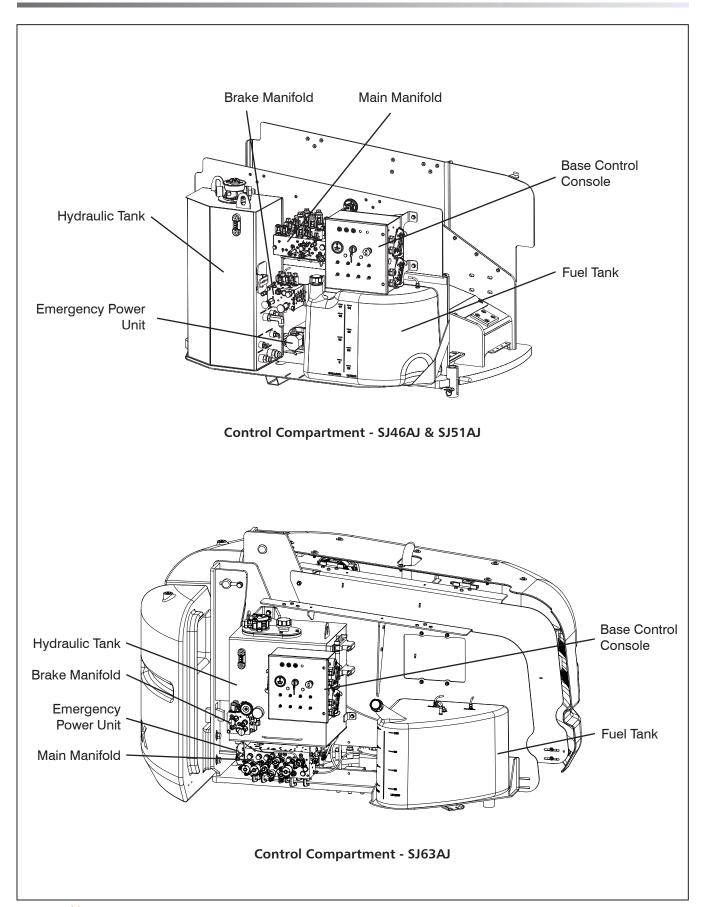


ANGER

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.

 Ensure fuel tank, hoses and fittings show no visible damage and no evidence of fuel leakage.





2.3-9 Control Compartment

- Ensure all compartment latches are secure and in proper working order.

Base Control Console

- Ensure all switches are returned to their neutral positions.
- Ensure there are no loose or missing parts and there is no visible damage.

Hydraulic Tank

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

Hydraulic Oil

- Be sure that the boom is in the stowed position, and then visually inspect the sight gauge located on the side of the hydraulic oil tank for SJ46AJ/SJ51AJ and on the front of the hydraulic oil tank for SJ63AJ.
- The hydraulic oil level should be between the minimum and maximum marks on the sight glass. Add oil as needed. Refer to Table 4.2b for recommended oil type.

Brake and Main Manifolds

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

Emergency Power Unit

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

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

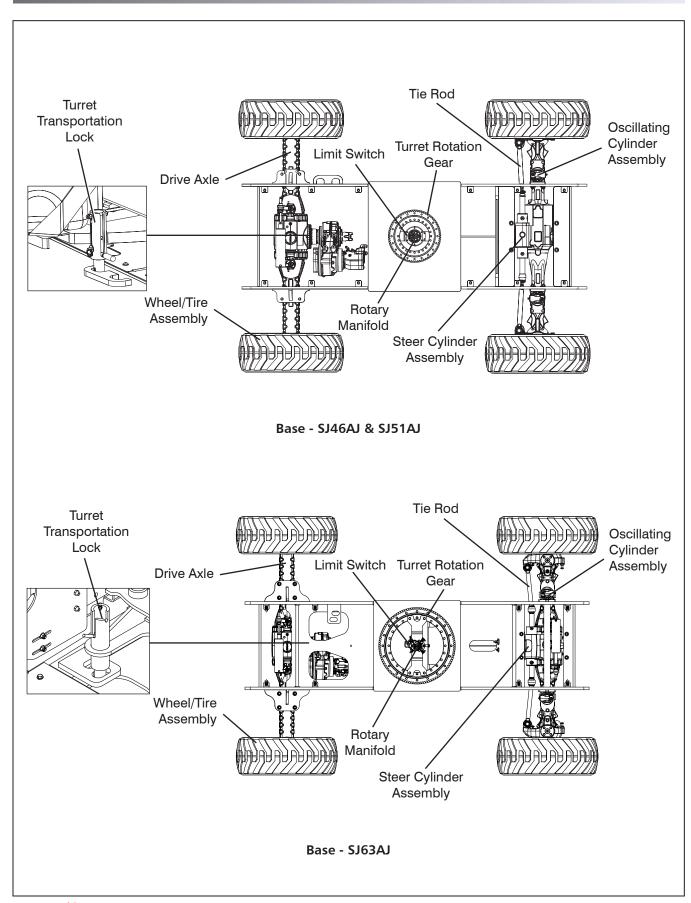
- Ensure that there no fuel leaks.



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.

 Ensure fuel tank, shutoff valve, hoses and fittings show no visible damage and no evidence of fuel leakage.



2.3-10 Base

Turret Transportation Lock

 Ensure turret transportation lock is unlocked, there are no loose or missing parts and there is no visible damage.

Drive Axle

 Ensure drive axle 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.

Oscillating Cylinder Assembly

 Ensure oscillating 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.

NOTE

Oscillating axle is locked when MEWP is in work mode. Refer to Diagram 3.4. Axle Oscillation Diagram.

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.

Tie Rod

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

• Wheel/Tire Assembly

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

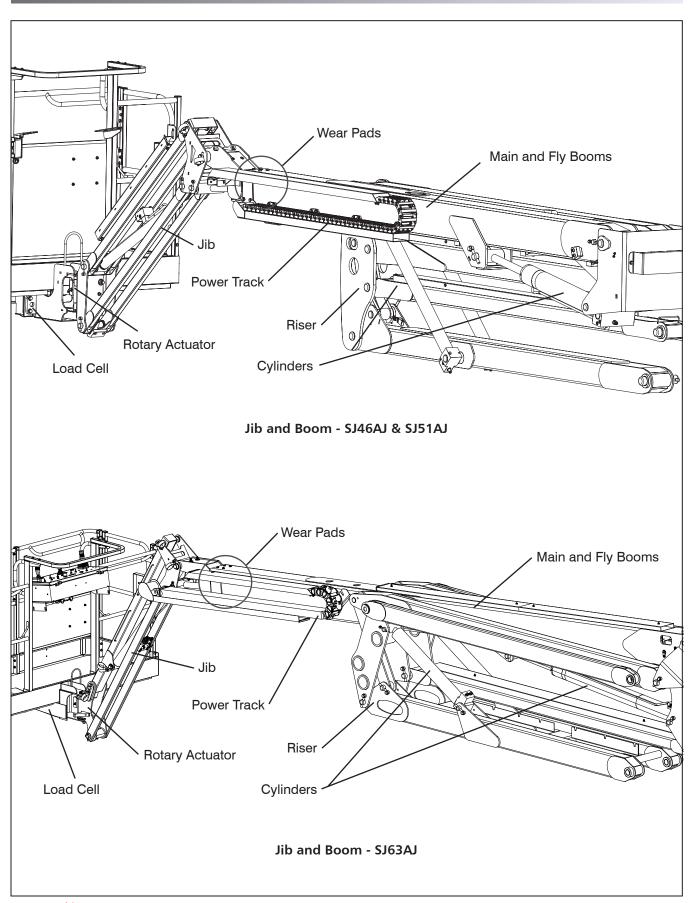
- Check all tire treads and sidewalls for cuts, cracks, punctures and unusual wear.
- Check each wheel for damage and cracked welds.
- Check each lug nut for proper torque to ensure none are loose.

Refer to Table 4.4 for tire/wheel specifications.



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.



2.3-11 Rotary Actuator

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

2.3-12 Load Cell

- Ensure there are no loose or missing parts and there is no visible damage.
- Ensure all bolts are properly tightened.
- Ensure all cables are secure and are in proper working condition.
- Ensure debris is not lodged between the platform and boom adaptor.

2.3-13 Jib

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

2.3-14 Boom

- Ensure there are no loose or missing parts and there is no visible damage.
- Ensure all bolts and pins are properly tightened.
- Ensure there are no visible cracks in welds or structure and there are no signs of deformation.
- Ensure all hoses are properly tightened and there is no evidence of hydraulic leakage.

Cylinders

- Ensure all cylinders are properly secured and there is no evidence of leakage.

Wear Pads

 Ensure all bolts are tight, there is no visible damage to the wear pads and that no parts are missing.

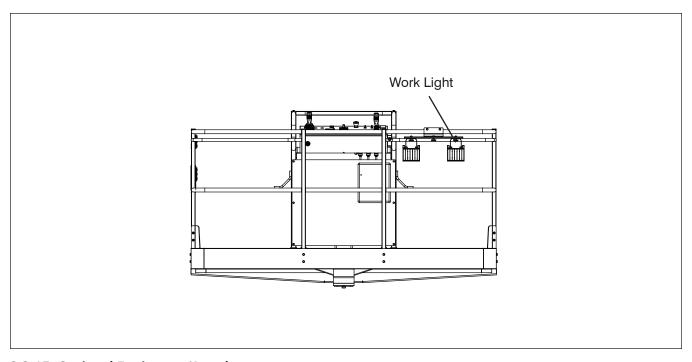
Hose

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

Power Track

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





2.3-15 Optional Equipment/Attachments

Battery Warmer/Hydraulic Oil Heater (If Equipped)

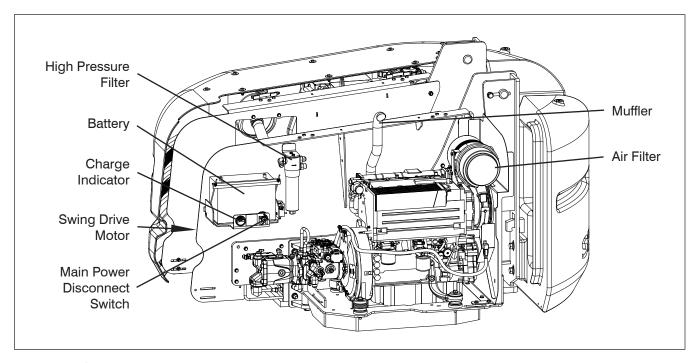
 Ensure battery warmer/hydraulic oil heater cord is properly secured with no signs of visible damage and hydraulic leakage.

• Work Light (If Equipped)

- Ensure lamps are properly secured with no signs of visible damage.
- Ensure mounting bracket is properly secured.
- Ensure there are no loose wires or missing fasteners.

• Flashing Amber Light (If Equipped)

- Ensure lamp is properly secured with no signs of 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.



CAUTION

Allow engine to warm up for a few minutes at low speed before applying any load.



Cold Weather - Caution must be exercised when operating MEWP in cold temperature. Cold temperature can affect the performance of the MEWP. Braking response and other functions may delay. Throughout the following procedures, test all functions several times until they are at acceptable operating performance.

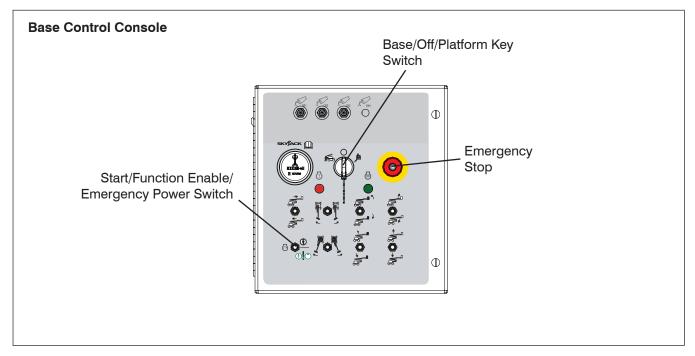
NOTE

All-function motion alarm (if equipped) should sound while operating any boom and drive function.

2.4-1 Test Main Power Disconnect Switch

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





2.4-2 Test Charge Indicator

- 1. Ensure both "• emergency stop buttons are pulled out.
- 2. In engine compartment, turn main power disconnect switch to "I" on position.

Result: Charge indicator needle should move and stay within the green area.

Charge Indicator Levels

Green: This means that battery is adequately charged. No action required. This also indicates that charging system is working properly.

Yellow or Red: This indicates undercharge status. If charge indicator level is reasonably within yellow or red area, start engine and recharge battery before using any elevating function. After recharging battery for 15 - 30 minutes, turn engine off and ensure charge indicator needle is now in green area.



If charge indicator needle is still within yellow or red area, inspect battery and charging system for fault, and do not elevate boom because emergency lowering system may not function properly.

NOTE

Close all cowlings before proceeding to next item.

2.4-3 Base Control Console

1. On platform control console, pull out " emergency stop button.



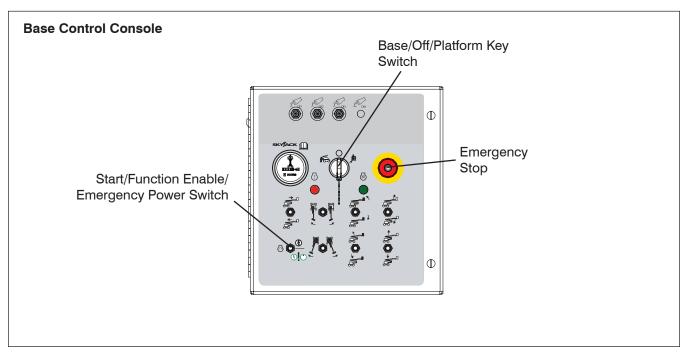
Ensure that you maintain three points of contact to mount/dismount platform.

- Test Base Emergency Stop Light
 - 1. On base control console, pull out "or emergency stop button.

Result: Emergency stop light should continuously illuminate. Glow plug light should turn on and turn off after a slight delay.

- 2. Turn base/off/platform key switch to "" base position.
- 3. Start engine by selecting "O" start position from start/function enable/emergency power switch.





Test Base 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 Function Enable Switch and All Boom Functions



WARNING

Ensure that there are no personnel or obstructions in test area and there is sufficient room for boom to swing.

1. Do not hold "①" function enable switch. Attempt to activate each boom and platform switch.

Result: All boom and platform functions should not operate.

2. Hold "\(\frac{1}{2} \)" function enable switch and activate each boom and platform function.

Result: All boom and platform functions should operate as selected.

Test Platform Self-leveling

- 1. Lower boom to stowed position.
- Adjust platform to a level position using platform leveling switch.
- 3. Raise "and lower "a" main boom through a full cycle.

 Result: Platform should remain level at all times.

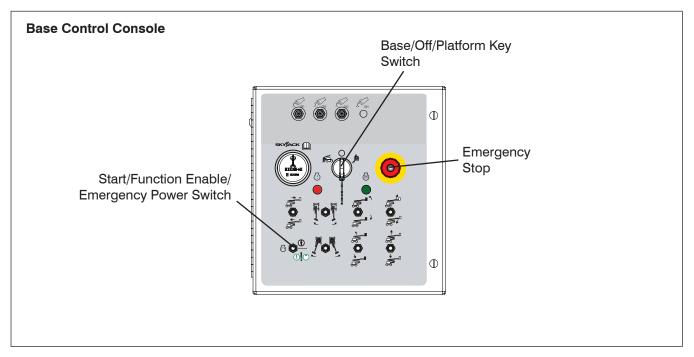
Test Emergency Power

- 1. On base control console, push in "o" emergency stop button to turn engine off.
- 2. On platform control console, push in " emergency stop button.



CAUTION

When operating on auxiliary power, do not operate more than one function at a time to avoid overloading 12-Volt auxiliary pump motor. Do not use emergency power unit continuously for more than two minutes for models SJ46AJ/SJ51AJ and for more than three minutes for model SJ63AJ.



NOTE

- To conserve battery power, test each function through a partial cycle.
- 3. On base control console, pull out "O" emergency stop button.
- 4. On base control console, turn base/off/platform key switch to "platform position."
- 5. Select "O" emergency power position from start/function enable/emergency power switch and activate each boom function.

Result: All selected functions should operate.

- 6. Turn base/off/platform key switch to "ks" base position.
- 7. Select "O" emergency power position from start/function enable/emergency power switch and activate each boom function.

Result: All selected functions should operate.

NOTE

The emergency power unit has a two-minute duty cycle for models SJ46AJ/SJ51AJ and a three-minute duty cycle for model SJ63AJ.

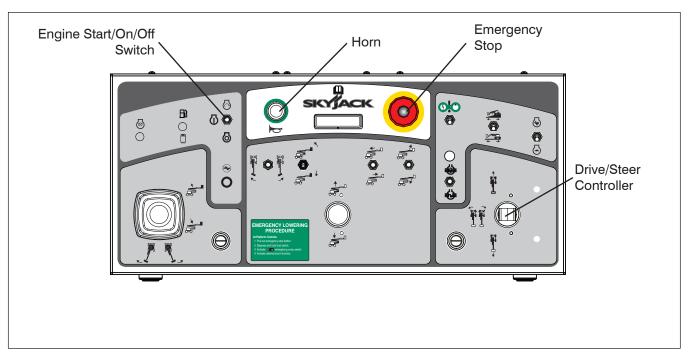
- Test Base/Off/Platform Switch
 - Ensure both "
 " emergency stop buttons are pulled out.
 Result: Glow plug light should turn on and turn off after a slight delay.
 - 2. Start engine.
 - On base control console, turn base/off/ platform key switch to "O" off position.
 Result: Engine should shut down and MEWP functions should not operate.
 - 4. On base control console, turn base/off/ platform key switch to " platform position.



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

5. Enter platform and close gate.





- 6. On platform control console, select "①" on position from engine enable switch.
- 7. Select "O" start position from engine start/on/off switch to start engine.
- 8. Dismount from platform.
- On base control console, attempt to activate each boom and platform switch while holding function enable switch. Result: All boom and platform functions should not operate while holding function enable switch.
- 10. Push in "O" emergency stop button to turn engine off.
- 11. Pull out "O" emergency stop button.

2.4-4 Platform Control Console



WARNING

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

1. Enter platform and close gate.



WARNING

DO NOT operate any control on platform control console without proper fall protection secured to designated location in platform. Failure to avoid this hazard could result in death or serious injury!

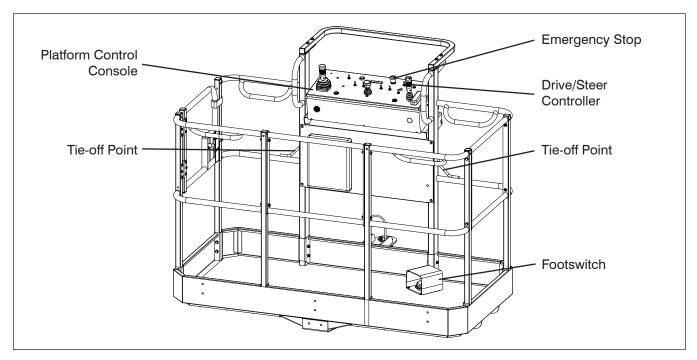


WARNING

Ensure that there are no personnel or obstructions in test area and that there is sufficient room for boom to swing.

- Test Platform Emergency Stop Light
 - On platform control console, pull out "
 emergency stop button.
 Result: Emergency stop light should continuously illuminate.





Test Platform Emergency Stop

- Start engine by selecting "O" start position from engine start/on/off switch.
 Result: Engine should start.
- 2. Push in "emergency stop button.

 Result: Engine should shut down and MEWP functions should not operate.

Test Footswitch

- 1. Pull out " emergency stop button.
- 2. Ensure engine start/on/off switch is in "①" on position.
- 3. Do not start engine.
- 4. Select generator on/off switch to off position (if equipped).
- Depress and hold footswitch and attempt to start engine by selecting "O" start position from engine start/on/off switch.
 Result: Engine should not start.
- 6. Without depressing footswitch, try to start engine.

Result: Engine should start.

7. With engine running and without depressing footswitch, test each boom and platform function.

Result: MEWP functions should not operate.

NOTE

A 15-second anti-tiedown feature deactivates footswitch when operator depresses it for 15 seconds without activating any function.

Test Engine Start/On/Off Switch

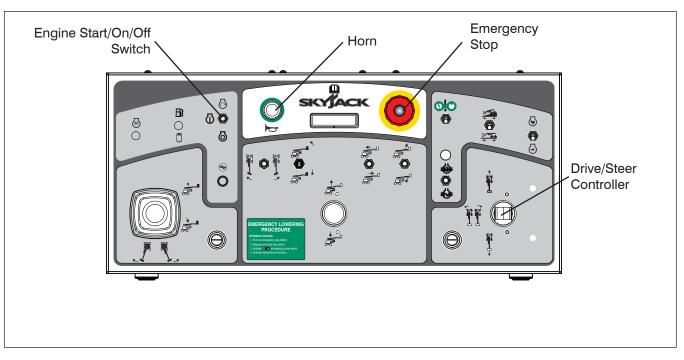
- 1. Ensure engine is running.
- 2. Select "O" off position from engine start/on/off switch.

Result: Engine should shut down and platform control console is disabled.

3. Select "O" on position from engine start/on/off switch.

Result: PI





Test Steering

- 1. Pull out "O" emergency stop button.
- 2. Start engine by selecting "O" start position from engine start/on/off switch.
- 3. Depress and hold footswitch.
- 4. Press rocker switch on top of drive/steer controller to " left and " left and " right.

 Result: Steer wheels should turn left and right.

Test Driving Function

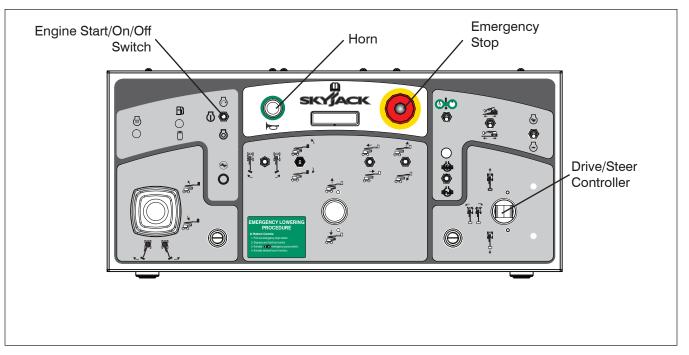
- 1. Ensure path of intended motion is clear.
- 2. Ensure boom is in stowed position and fly boom fully retracted.
- 3. Depress and hold footswitch.
- 4. Slowly move drive/steer controller in

 """ 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 Driving Speed

- 1. Depress and hold footswitch.
- 2. Raise "main boom slightly above horizontal (approximately 5 degrees) and then slowly move drive/steer controller to full drive position.

Result: The maximum achievable drive speed should be significantly less than stowed drive speed.

- 3. Lower boom to stowed position.
- 4. Extend " "fly boom approximately 30 cm (12 inch.) and then slowly move drive/steer controller to full drive position.

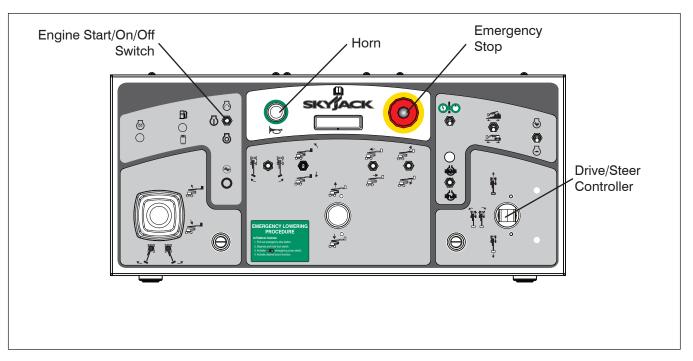
 Result: The maximum achievable drive speed should be significantly less than stowed drive speed.
- 5. Retract fly boom.
- Raise riser until highest point is approximately 1.2 m (4 ft.) above the top of the cowling.

Result: The maximum achievable drive speed should be significantly less than stowed drive speed.

• Test Load Sensing System

- 1. Push in " emergency stop button.
- 2. Pull out "O" emergency stop button.

 Result: After four seconds of time elapses, the red light and audible alarm pulse two times. This indicates the system is active and there are no faults.



Test Emergency Power



CAUTION

When operating on auxiliary power, do not operate more than one function at a time to avoid overloading 12-Volt auxiliary pump motor. Do not use emergency power unit continuously for more than two minutes for models SJ46AJ/SJ51AJ and for more than three minutes for model SJ63AJ.

NOTE

- To conserve battery power, test each function through a partial cycle.
- 1. On platform control console, push in "emergency stop button to turn engine off.
- 2. Pull out "O" emergency stop button.
- 3. Select "O" on position from engine start/on/off switch.
- 4. Depress and hold footswitch.

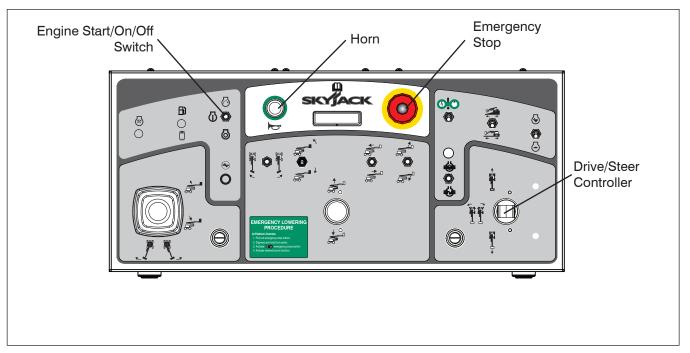
5. Turn "O" emergency power switch to "on position and activate each function control handle or switch.

Result: All boom and steer functions should operate. Drive functions should not operate.

NOTE

The emergency power unit has a two-minute duty cycle for models SJ46AJ/SJ51AJ and a three-minute duty cycle for model SJ63AJ.

- Test Horn
 - 1. Push "" horn pushbutton. **Result:** Horn should sound.



Test Brakes



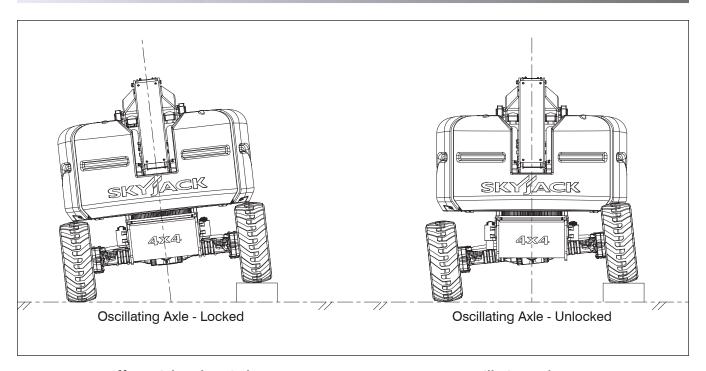
Brakes will engage instantly when you release footswitch, causing MEWP to stop immediately.

- 1. Restart engine.
- 2. Move MEWP to a firm level surface to ensure similar traction on left and right.
- 3. Ensure boom is in stowed position.
- 4. Depress and hold footswitch and drive MEWP first "I forward then "I reverse.
- Remove your foot from footswitch.
 Result: MEWP should come to an 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 Manual Platform Leveling

- 1. Depress and hold footswitch.
- 2. On platform leveling override switch, pull and select "" up position to tilt platform up or " down position to tilt platform down.

Result: Platform should tilt up or down.



Test Differential Lock Switch



Before engaging differential lock, ensure drive/steer controller is in neutral position.

 On platform control console, push differential lock switch forward """ to the locked position and then release.

Result: Differential light should turn on. Differential lock should be engaged.

2. Pull differential lock switch backward "to the unlocked position and then release.

Result: Differential light should turn off. Differential lock will disengage when drive torque is released. Refer to Section 3 for operation.

Test Oscillating Axles



DO NOT operate any control on platform control console without proper fall protection secured to designated location in platform. Failure to avoid this hazard could result in death or serious injury!

1. Extend fly boom 30 cm (12 in.) while on a firm level ground.

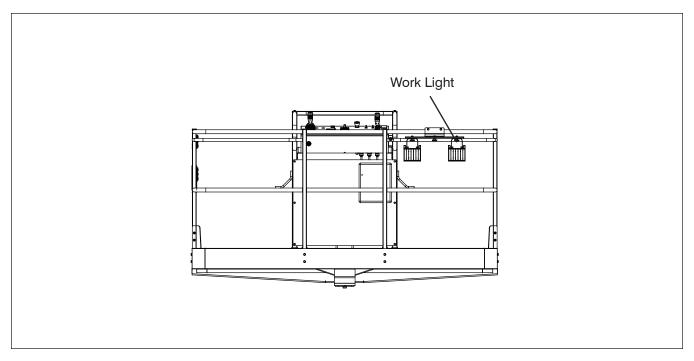
Result: The steer axles should be locked.

2. Drive one of the steer tires up onto a 15 cm (6 in.) block or curb.

Result: An appropriate tilt of the MEWP chassis should occur.

 Retract fly boom while in tilt position.
 Result: The steer axles should unlock and the MEWP chassis should level itself to ground.





2.4-5 Optional Equipment/Attachments

- Test Work Light (If Equipped)
 - 1. Select the on/off switch located on the back of the light housing and switch it to the on position.

Result: The light should turn on.

- 2. Turn the switch to the off position. Push in platform "O" emergency stop button.
- 3. Dismount the platform.



WARNING

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

Test All Motion Alarm (If Equipped)



WARNING

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

- 1. Ensure path of intended motion is clear.
- 2. Activate any drive or lift functions. **Result:** Alarm should sound.

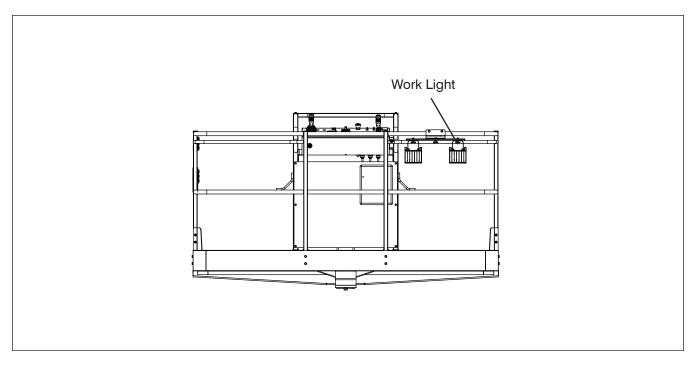
Stop all platform motion.Result: Alarm should stop.

NOTE

On MEWP with certain options, a flashing amber light will accompany this alarm.

- Test Flashing Amber Light (If Equipped)
 - 1. Ensure path of intended motion is clear.
 - 2. Activate any drive or lift functions. **Result:** Light should flash.
 - Stop all platform motion.
 Result: Light should stop flashing.





• Test Hydraulic Generator (If Equipped)

- 1. Ensure engine is running.
- On platform control console, turn generator on/off switch to "O" on position.
 Result: Engine will automatically switch to high throttle and generator will start.
- On platform control console, turn generator on/off switch to "O" off position.
 Result: The generator will turn off and throttle will return to selected speed.

NOTE

An engine shut down will turn the generator off. Normal boom functions are disabled while the generator is on.

2.5 Winching and Towing Procedure

This section provides the operator with procedure about winching and towing and on how to manually release brakes.



WARNING

Ensure boom is in stowed position before winching or towing. Sudden motion could cause 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 50 mm/sec (2 in./sec).



WARNING

When pushing, winching or towing, do not exceed 3.2 km/h (2 mph).



WARNING

Do not winch or tow MEWP on grade steeper than 45%.



WARNING

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

- Before winching or towing MEWP, fully retract, lower and position boom over rear drive wheels in line with direction of travel.
- 2. Manually release brakes using the following steps:

NOTE

Brakes must be manually disengaged for winching or towing.



WARNING

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

- a) Ensure MEWP is on level ground. Chock or block wheels to keep MEWP from rolling.
- b) Turn main power disconnect switch to "O" off position.



CAUTION

Do not use hydraulic power with brake disengaged.

c) Locate the bypass valve on the inboard side of the drive pump. Bypass the drive pump by loosening the valve stem (item 1 - marked with yellow paint) two revolutions counterclockwise for SJ46AJ & SJ51AJ, or 90 degrees counterclockwise for SJ63AJ.

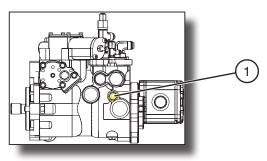


Figure 2-7a. Drive Bypass Valve (Models SJ46AJ & SJ51AJ)

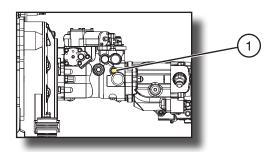


Figure 2-7b. Drive Bypass Valve (Model SJ63AJ)



CAUTION

Do not release brakes before disengaging drive motor!

d) Push in black brake valve plunger (item 2).

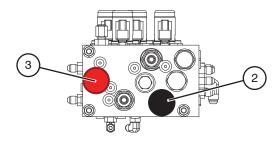


Figure 2-8a. Brake Manifold (Models SJ46AJ & SJ51AJ)

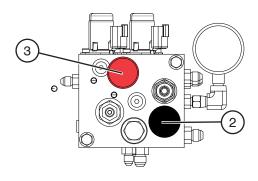


Figure 2-8b. Brake Manifold (Model SJ63AJ)

 e) Actuate red hand pump (item 3) slowly by moving knob in and out until firm resistance is felt or until 300 psi/21 bar shows on the gauge (if equipped). Brake is now released.



WARNING

Brakes must be applied immediately after reaching desired location. Refer to Section 2.5 on how to reengage brakes.

- 3. Remove wheel chocks or blocks, and then winch or tow MEWP to desired location.
- 4. Position MEWP on a firm and level surface.
- Chock or block wheels to prevent MEWP from rolling.
- Apply brakes by pulling out black brake auto reset valve.

NOTE

Brakes automatically apply when platform controls are engaged.



WARNING

Brakes must be applied immediately after reaching desired location.

2.6 Emergency Lowering Procedures

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

NOTE

The emergency power unit has a two-minute duty cycle for models SJ46AJ/SJ51AJ and a three-minute duty cycle for model SJ63AJ.



Do not use emergency power unit continuously for more than two minutes for models SJ46AJ/SJ51AJ and for more than three minutes for model SJ63AJ.

At Base Control Console:

- 1. Ensure engine is off.
- 2. Pull out "O" emergency stop button.
- 3. Select either "*** base position or *** platform position from key switch.
- 4. Select "O " emergency power position from start/function enable/emergency power switch and activate desired boom function.

At Platform Control Console:

- 1. Ensure engine is off.
- 2. Pull out "o" emergency stop button.
- 3. Select "O" on position from engine start/on/off switch.
- 4. Depress and hold footswitch.
- 5. Turn "① " emergency power switch to " on position and activate desired boom function.

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 4.7, 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 4.7 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.

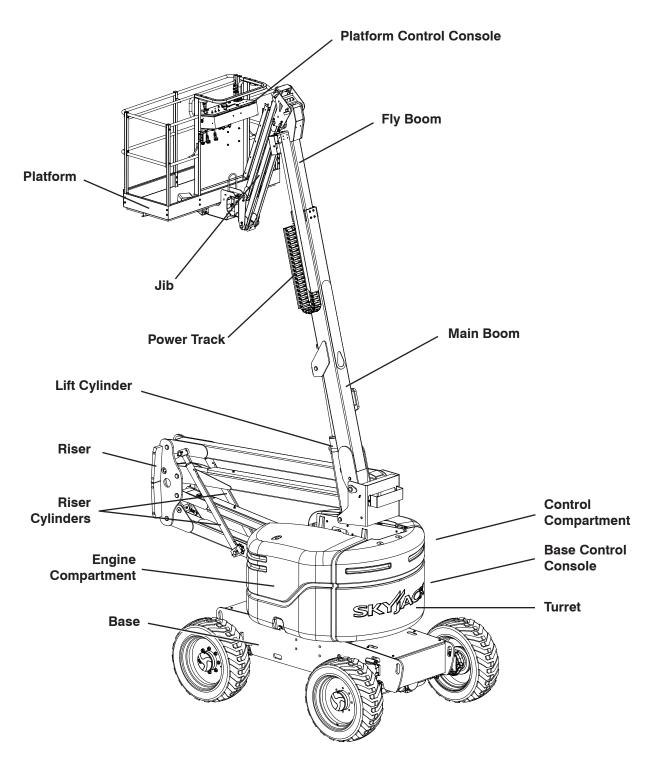
3.1-4 Owner's Inspections

It is the responsibility of the owner to arrange daily, quarterly (or 150 hours) and annual inspections of the MEWP. Refer to Table 4.7 for recommended maintenance and inspection areas and intervals. A record of annual inspection is kept on a label located close to the base control console on the cowling. Refer to Table 4.3 in this manual.

NOTE

Inspection scheduling requirements may vary. Owners must comply with local standards and regulations.

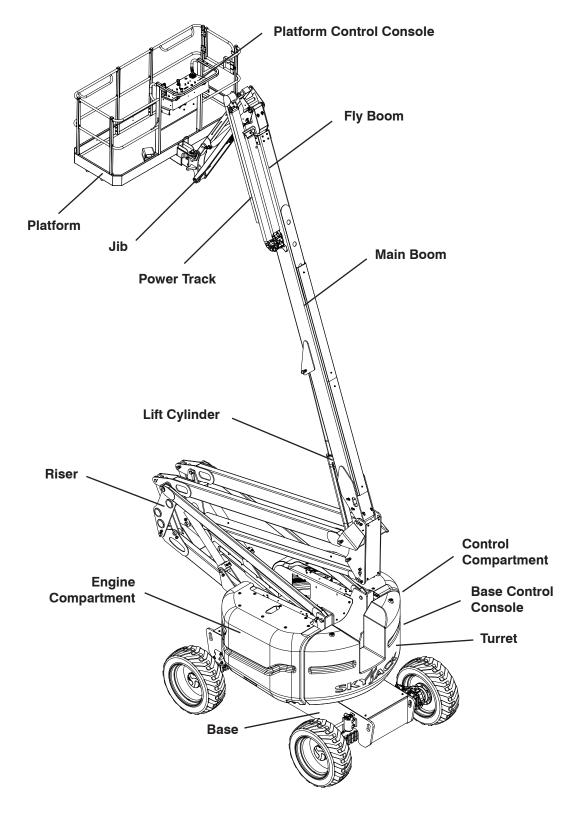
3.2a Major Components - SJ46AJ & SJ51AJ



SKYJACK Articulating Boom - SJ46AJ

Section 3 - Operation Major Components

3.2b Major Components - SJ63AJ



SKYJACK Articulating Boom - Model SJ63AJ

3.3 Major Assemblies

The MEWP consists of four major assemblies: the base, turret, boom assembly and platform.

3.3-1 Base

The base is a rigid one-piece weldment. Models equipped with dual-fuel engine have mounting straps for propane tank on each side. The rear axle is hydraulic motor-driven and has a spring-applied, hydraulically released brakes. The front axle is steerable by a hydraulic cylinder. The rear axle is coupled to the front axle by a drive shaft.

3.3-2 Turret

The turret rotates 360 degrees continuously. Upon the turret are two compartments. One compartment contains the engine, hydraulic pumps and battery. The swing drive is in the center of the turret underneath the main boom. The other compartment contains the base control console, main hydraulic manifold, function valves, the hydraulic and fuel tanks.

3.3-3 Boom Assembly

The boom assembly consists of the riser, telescoping fly and main boom assembly. The riser is mounted on the turret with the main boom attached to the riser. The riser mechanism uses two double-acting hydraulic cylinders with holding valves to control vertical movement. SJ46AJ and SJ51AJ models are equipped with a 152 cm (60 in.) jib, controlled by a double-acting hydraulic cylinder. SJ63AJ model is equipped with a 168 cm (66 in.) jib, controlled by a double-acting hydraulic cylinder.

3.3-4 Platform

The platform is constructed of a skid-resistant deck surface allowing visibility through the deck and a 110 cm (43 in.) high tubular steel railing system with mid rails and 15 cm (6 in.) toe boards. The platform can be entered through a swing gate at the side of the railing system. The platform can be rotated in either direction. An optional AC outlet is also located on the platform.

3.4 Serial Number Nameplate

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

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

3.5 Component Identification

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

3.5-1 Manual Storage Box

This weather-resistant box is mounted under the control console on the platform. It contains the operating manual and other important documents. The operating manual for this make and model of MEWP must remain with the MEWP and should be stored in this box.



3.5-2 All Motion Alarm (If Equipped)

This alarm produces an audible sound when any MEWP function is activated. On MEWPs with certain options, a flashing amber light will accompany this alarm.

3.5-3 AC Outlet on Platform (If Equipped)

This outlet is a source of AC power on the platform. The outlet is located on the right side of platform control console and the plug is located at the middle rear section of the turret.

3.5-4 Turret Transportation Lock

This locking device is located in the turret.

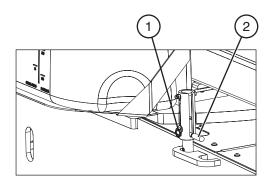


Figure 3-1a. Turret Transportation Lock (Models SJ46AJ & SJ51AJ)

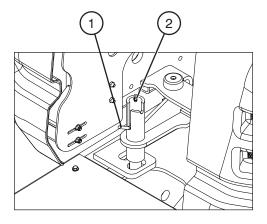


Figure 3-1b. Turret Transportation Lock (Model SJ63AJ)

- **1. Turret Transportation Lock Retaining Pin** This retaining pin is used to hold transportation lock in either locked or unlocked position.
- 2. Turret Transportation Lock This locking device is used to lock turret in place during shipping only.

Refer to Section 3.10-2 for procedure on how to lock the turret.

3.6 Component Identification (Optional Equipment/Attachments)

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

3.6-1 Cold Weather Start (If Equipped)

The battery warmer/hydraulic oil heater cord is located on the engine compartment near the battery. This cord is plugged into the AC outlet at least 4 hours before starting engine when temperature gets below -11°C (+11°F).

3.6-2 Work Light (If Equipped)

The work light assembly is mounted on the railings of the platform.

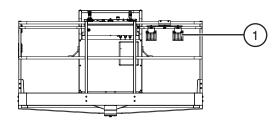


Figure 3-2. Work Light

1. **Work Light** - This light turns on when plugged into the AC outlet on the platform.



WARNING

Work lights are not intended to replace the ambient lighting required to navigate and operate this MEWP.

3.6-3 Flashing Amber Light (If Equipped)

The flashing amber light is located on top of the turret of the MEWP. This light flashes when boom function is activated. This works in conjunction with all motion alarm.

NOTE

The combined weight of attachment, panels, occupants and tools should not exceed platform rated capacity.

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 4.8) 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 4.7).

3. Cold Weather Hydraulic System Warm Up



WARNING

Caution must be exercised when operating MEWP in cold temperature. Cold temperature can affect the performance of the MEWP. Braking response and other functions may delay.



CAUTION

Ensure hydraulic oil throughout system is warmed before operating MEWP in low temperatures. Failure to heed this warning can lead to unexpected movements, product damage, death or serious injury.

Boom Functions:



WARNING

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

- Run engine at low throttle.
- Raise, lower, extend and retract boom slowly several times until boom functions are at acceptable operating performance.

Drive Functions:



WARNING

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

- Run engine (if applicable) in low throttle.
- Drive MEWP forward and backward slowly several times until braking response is in safe operating performance.

Start Operation Section 3 - Operation

3.8 Start Operation

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



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

Before operating this MEWP, perform the following steps:

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



An operator should not use any MEWP that:

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

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

3.8-1 To Activate Base Control Console



WARNING

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

- 1. Enter platform and close gate.
- 2. On platform control console, pull out "O" emergency stop button.
- 3. In engine compartment, turn main power disconnect switch to " on position.
- 4. On base control console, turn base/off/platform key switch to "**\overline{\tau}" base position.
- 5. Pull out "O" emergency stop button.
- 6. Select "O" start position from start/function enable/emergency power switch until engine starts.



DO NOT over crank the starter. If engine fails to start after multiple attempts, consult "Troubleshooting Information," in the Service and Maintenance Manual.



CAUTION

Allow engine to warm up for a few minutes at low speed before applying any load.

3.8-2 To Rotate Platform Using Base Control Console

- 1. Activate and hold function enable switch "O" by pushing it to the right.
- 2. Push platform rotation switch to either " left or " right position. Release switch to stop.

Section 3 - Operation Start Operation

3.8-3 To Rotate Turret Using Base Control Console



WARNING

When rotating the turret, ensure that there are no personnel or obstructions in the path of rotation, including blind spots.

- 1. Activate and hold function enable switch "

 "by pushing it to the right.
- 2. Push turret rotation switch to either "
 clockwise or " counterclockwise position.
 Release switch to stop.

NOTE

Turret can be rotated continuously 360 degrees.

3.8-4 To Move Jib Up and Down Using Base Control Console

- 1. Activate and hold function enable switch "O" by pushing it to the right.
- 2. Push jib up/down switch to either " up or " down position. Release switch to stop.

3.8-5 To Move Riser Up and Down Using Base Control Console

- 1. Activate and hold function enable switch "①" by pushing it to the right.
- 2. Push riser up/down switch to either "oo" up or "oo" down position. Release switch to stop.

3.8-6 To Raise or Lower Main Boom Using Base Control Console

- 1. Activate and hold function enable switch " by pushing it to the right.
- 2. Push main boom raise/lower switch to either "raise or "lower position. Release switch to stop.

3.8-7 To Extend or Retract Fly Boom Using Base Control Console

- Activate and hold function enable switch "
 "by pushing it to the right.
- 2. Push fly boom extend/retract switch to either "extend or " retract position.

 Release switch to stop.

3.8-8 To Level Platform Manually Using Base Control Console

- 1. Activate and hold function enable switch "①" by pushing it to the right.
- 2. Push platform leveling override switch to either "up or "odown position.

 Release switch to stop.

3.8-9 To Operate Using Emergency Power Switch at Base Control Console

This is a momentary-type switch. This switch allows all functions except the drive function to operate in the event of engine malfunction. Refer to Section 2.6 for the emergency lowering procedure.

NOTE

The emergency power unit has a threeminute duty cycle.



CAUTION

Do not use emergency power unit continuously for more than two minutes for models SJ46AJ/SJ51AJ and for more than three minutes for model SJ63AJ.

3.8-10 To Activate Platform Control Console

- In engine compartment, turn main power disconnect switch to "|" on position.
- 2. On base control console, turn base/off/platform key switch to "platform position."
- 3. On base control console, pull out "O" emergency stop button.



WARNING

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



WARNING

DO NOT operate any control on operator's control console without proper fall protection secured to the designated location in the platform. Failure to avoid this hazard could result in death or serious injury.

- 4. Enter platform and close gate.
- 5. Attach body harness lanyards of each occupant to platform lanyard rings.
- 6. On platform control console, pull out "O" emergency stop button.

7. Push and hold "O" start position from start/on/off switch until engine starts.



WARNING

DO NOT over crank the starter. If engine fails to start after multiple attempts, consult "Troubleshooting Information," in the Service and Maintenance Manual.

NOTE

Engine will not start if you are pressing down on the footswitch.

8. Select desired engine RPM using throttle switch:
"
" high or "
" low.



WARNING

- DO NOT drive or steer the MEWP when the platform position does not allow you a clear view of the base.
- Your area of operation should be cordoned from other personnel or equipment.

Section 3 - Operation Start Operation

3.8-11 To Drive Forward or Reverse



- For models SJ46AJ and SJ51AJ only: refrain from climbing hills with slope greater than 30%.
- When climbing high grades (for models SJ46AJ and SJ51AJ only):
 - all booms must be fully stowed.
 - restrict platform capacity to 300 lbs.



CAUTION

When you are in the platform and positioned over an axle, the direction you are facing will be forward.

- 1. Depress and hold footswitch.
- 2. Push and hold drive/steer controller in this direction "," to drive forward or "," to drive backward.
- 3. Release controller handle to stop.



DANGER

The drive orientation can change when the turret is swung 90 degrees off center of the normal driving position (roughly when boom is swung past the rear tire). Drive re-orientation will not occur while driving and rotating until the joystick is released for 6 seconds or when the footswitch is released.

3.8-12 To Steer

- 1. Depress and hold footswitch.
- 2. Press rocker on top of drive/steer controller in this direction " 1" to steer left or " 1" to steer right.

NOTE

Driving and steering may be active at the same time.

3.8-13 To Move Jib Up and Down Using Platform Control Console

- 1. Depress and hold footswitch.
- 2. On jib up/down switch, select " " to move jib up or " " to move jib down. Release switch to stop.

3.8-14 To Move Riser Up and Down Using Platform Control Console

- 1. Depress and hold footswitch.
- 2. On riser up/down switch, select "" to move riser up or "" to move riser down. Release switch to stop.

3.8-15 To Extend or Retract Fly Boom Using Platform Control Console

- 1. Depress and hold footswitch.
- 2. On fly boom extend/retract switch, select " boom." to extend fly boom or " to retract fly boom. Release switch to stop.

3.8-16 To Rotate Platform Using Platform Control Console

- 1. Depress and hold footswitch.
- 2. On platform rotation switch, select "to rotate platform left or "to rotate platform right.

3.8-17 To Level Platform Manually Using Platform Control Console

- 1. Depress and hold footswitch.
- 2. On platform leveling override switch, pull and select "y" up position to tilt platform up or "down position to tilt platform down.

3.8-18 To Raise or Lower Main Boom Using Platform Control Console

- 1. Depress and hold footswitch.
- 2. Push and hold boom/turret controller in this direction "to raise main boom or " to lower main boom.
- 3. Release controller handle to stop.

3.8-19 To Sound Horn

1. Press "horn pushbutton to sound horn. Release pushbutton to stop sounding horn.

3.8-20 To Rotate Turret Using Platform Control Console



When rotating the turret, ensure that there are no personnel or obstructions in the path of rotation, including blind spots.

- 1. Depress and hold footswitch.
- 2. Push and hold boom/turret controller in this direction " " to rotate clockwise or " " to rotate counterclockwise.
- 3. Release controller handle to stop.

NOTE

Turret can be rotated continuously 360 degrees.

3.8-21 To Operate Using Emergency Power Switch at Platform Control Console

This is a momentary-type switch. This switch allows all functions except drive function to operate in the event of engine malfunction. Refer to Section 2.6 for the emergency lowering procedure.

NOTE

The emergency power unit has a three-minute duty cycle.



Do not use emergency power unit continuously for more than two minutes for models SJ46AJ/SJ51AJ and for more than three minutes for model SJ63AJ.

Section 3 - Operation Start Operation

3.8-22a To Engage Differential Lock Switch

- 1. Depress and hold footswitch.
- 2. On platform control console, push differential lock switch forward "to the locked position and then release.

3.8-22b To Disengage Differential Lock Switch

- 1. Ensure path of intended motion is clear.
- 2. Depress and hold footswitch.
- 3. Pull differential lock switch backward "to the unlocked position and then release."

NOTE

To disengage differential lock mechanism, it may be necessary to release drive torque. This can be accomplished by operating drive (alternating directions) and/or steer functions (alternating directions).

3.8-23 Hydraulic Generator (If Equipped)

To start hydraulic generator:

- 1. Ensure engine is running.
- 2. On platform control console, turn generator on/ off switch to "O" on position.

To restore normal operation:

 On platform control console, turn generator on/ off switch to "O" off position.

NOTE

An engine shut down will turn the generator off. Normal boom functions are disabled while the generator is on.

3.8-24 Shutdown Procedure

- 1. Completely retract boom and lower platform.
- 2. Push in "emergency stop button on platform control console and on base control console.
- 3. Turn base/off/platform key switch to "O" off position. Remove key.
- 4. Turn main power disconnect switch to "O" off position.

For MEWP with cold weather start option:

NOTE

When temperature gets below -11°C (+11°F), ensure MEWP is parked close to AC outlet.

5. Plug in battery warmer/hydraulic oil heater into AC outlet at least 4 hours before starting engine.

3.9 Refueling Procedure

This section provides the operator with procedure on how to refuel engine with regular fuel.

IMPORTANT

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



WARNING

Failure to heed the following safety precautions could result in death or serious injury:

- Use extreme caution while refueling MEWPs.
- Ensure that engine and all systems are turned off before refueling.
- Refuel the MEWP only in a well ventilated area away from open flame and other sources of ignition, authorized by your employer and supervisor.



WARNING

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

3.9-1 Regular Fuel (Diesel)

IMPORTANT

Use unleaded gasoline only.

- Ensure engine and all systems are turned off and emergency stop buttons are depressed.
- 2. Open control compartment and remove fuel cap.
- 3. Carefully fill the fuel tank ensuring that no spillage occurs.
- 4. Securely replace fuel cap.
- 5. Ensure there are no leaks in fuel system.
- 6. Wipe up any spilled fuel.
- 7. Dispose of rags in an approved container.

Section 3 - Operation Loading/Unloading

3.10 Loading/Unloading

Know and heed all national, state/provincial and local rules which apply to transporting of MEWPs.

Only qualified personnel shall operate MEWP 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 or unloaded.

3.10-1 Loading and Tie-down

- Lock turret using turret transportation lock (refer to Section 3.10-2).
- 2. Turn key switch to "O" off position and remove key before transporting.

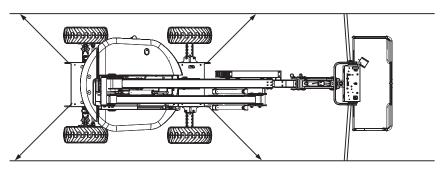
- 3. Turn main power disconnect switch to "O" off position.
- 4. Chock MEWP wheels (if necessary).
- Remove all loose items.
- 6. Anchor down MEWP to transport surface using tie-down points (refer to Figure 3-2).
- Secure boom from side-to-side movement using lower platform mount between boom end and platform. Do not use excessive downward force when securing boom section.



Inspect MEWP for loose or unsecured items.

NOTE

For loading and unloading using a winch line, refer to Section 2.5.



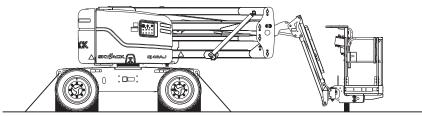


Figure 3-2. Tie-down Points



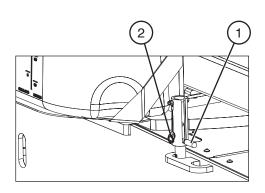
3.10-2 Locking the Turret

- Ensure that turret is positioned so that turret transportation lock tube (item 1 - Figure 3-3a or Figure 3-3c) is aligned into one of two turret locking points in the turret rotation lock plate.
- Pull out turret lock retaining pin (item 2 - Figure 3-3a or Figure 3-3c). Lower turret lock into locked position and reinsert turret lock retaining pin.

3.10-3 Lifting

NOTE

When it becomes necessary to lift MEWP, it is very important that lifting devices are attached only to designated lifting points (refer to Figure 3-3b or Figure 3-3d).





Use chains of ample load capacity sufficient to withstand MEWP weight.

- Place boom in stowed position centered between drive wheels. Lock turret using turret transportation locking pin (refer to Section 3.10-2) into the transport point (refer to Figure 3-3a or Figure 3-3c).
- 2. Turn main power disconnect switch to "O" off position.
- 3. Remove all loose items from MEWP.
- Properly adjust rigging to prevent damage to MEWP and so MEWP remains level.

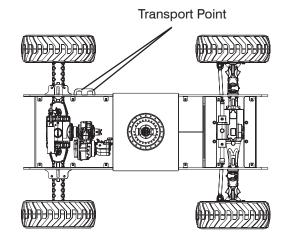


Figure 3-3a. Turret Transportation Lock & Locking Points (Models SJ46AJ & SJ51AJ)

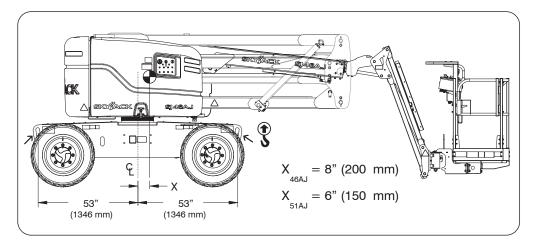


Figure 3-3b. Lifting Points (Models SJ46AJ & SJ51AJ)

NOTE: Center of gravity varies with different options.

Section 3 - Operation Loading/Unloading

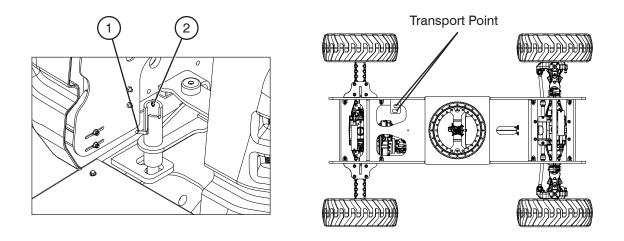


Figure 3-3c. Turret Transportation Lock & Locking Points (Model SJ63AJ)

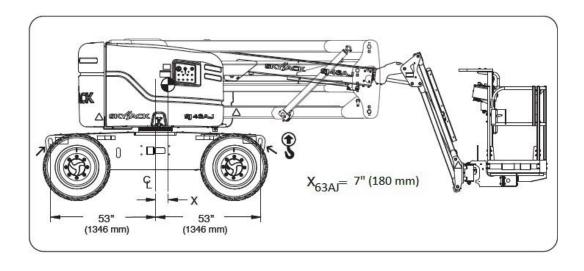


Figure 3-3d. Lifting Points (Model SJ63AJ) NOTE: Center of gravity varies with different options.

3.11 Chassis Tilt

This section guides the operator with regard to recovering from an inclined position.

IMPORTANT

When the boom is raised or extended, the MEWP must only be operated on firm level surfaces.



WARNING

If MEWP becomes tilted causing the alarm to sound, the platform must be fully lowered and retracted immediately. Drive functions are not available when the tilt alarm is active.

3.11-1 Platform Uphill

If the MEWP becomes tilted with the platform uphill (refer to Figure 3-4) follow the steps below to return to a lowered and retracted position.

- 1. Lower main boom completely.
- 2. Lower riser completely.
- 3. Retract fly boom completely.
- 4. Drive to a firm level surface.

3.11-2 Platform Downhill

If the MEWP becomes tilted with the platform downhill (refer to Figure 3-5) follow the steps below to return to a lowered and retracted position.

- 1. Retract fly boom completely.
- 2. Lower riser completely.
- 3. Lower main boom completely.
- 4. Drive to a firm level surface.

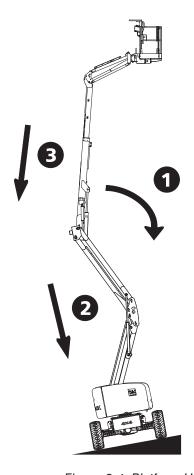


Figure 3-4. Platform Uphill

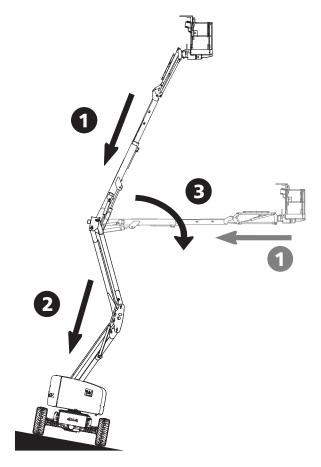


Figure 3-5. Platform Downhill

Section 3 - Operation Diagrams

Diagram 3.1 Dimension and Reach Diagram - SJ 46AJ

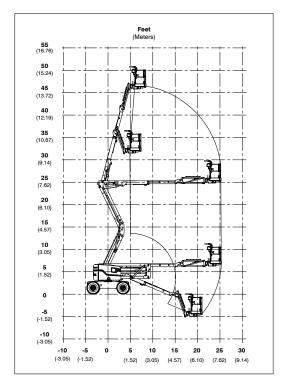


Figure 3-6. Reach Diagram - SJ46AJ

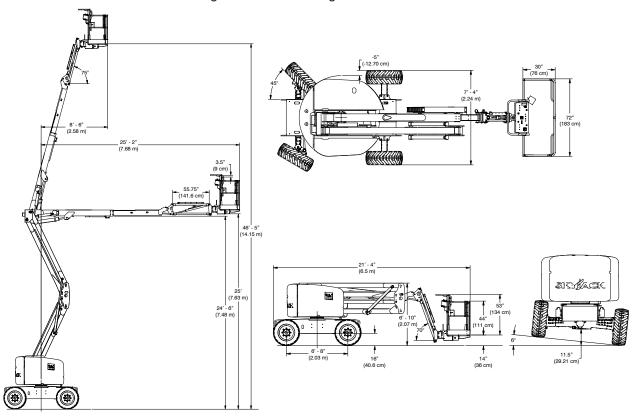


Figure 3-7. Dimension - SJ46AJ

Diagrams Section 3 - Operation

Diagram 3.2 Dimension and Reach Diagram - SJ 51AJ

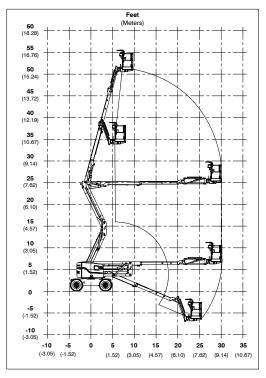


Figure 3-8. Reach Diagram - SJ51AJ

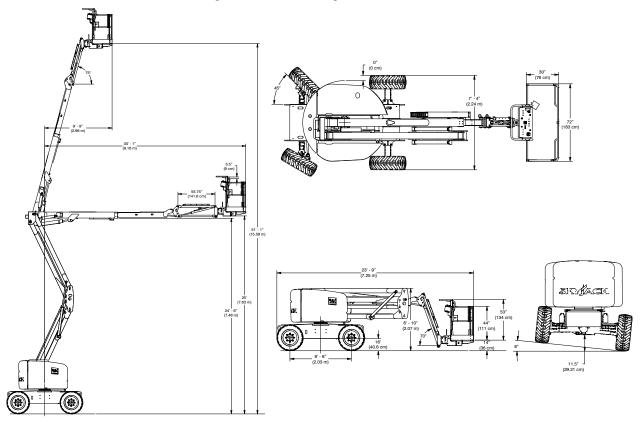


Figure 3-9. Dimension - SJ51AJ

Section 3 - Operation Diagrams

Diagram 3.3 Dimension and Reach Diagram - SJ 63AJ

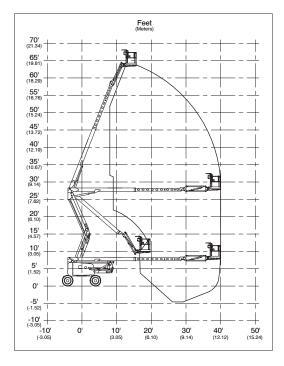


Figure 3-10. Reach Diagram - SJ63AJ

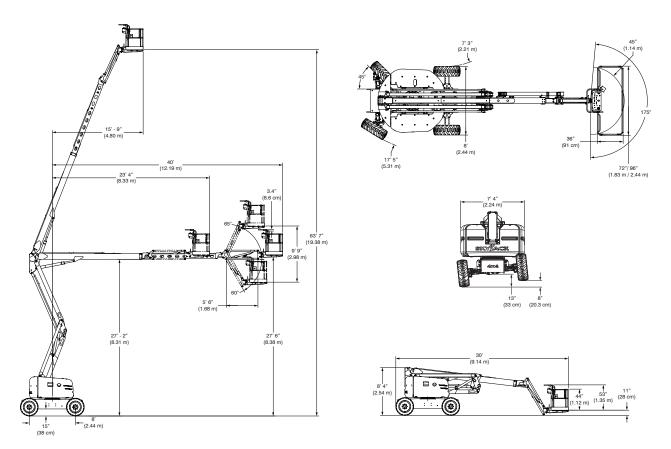
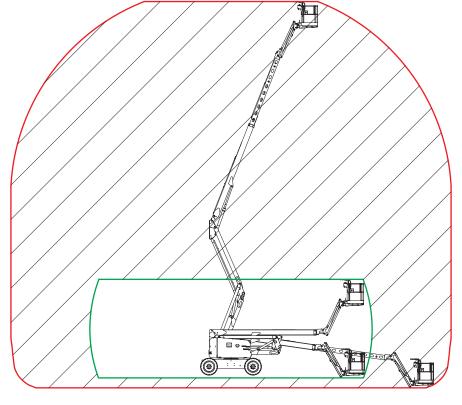


Figure 3-11. Dimension - SJ63AJ

Diagram 3.4 Axle Oscillation Diagram



Do not raise the platform in work mode if it is not on a firm level surface.



Axle oscillation free (travel mode) - drive speed 7.7 km/h (4.8 mph) max.

Axle oscillation locked (work mode) - drive speed 0.8 km/h (0.5 mph) max.

Figure 3-12. Axle Oscillation

Table 4.1 Standard and Optional Features

MODEL	SJ 46AJ	SJ 51AJ	SJ 63AJ			
STANDARD EQUIPMENT						
12-Volt DC emergency power	1	✓	✓			
5-foot jib	✓	✓				
5-foot, 6-inch jib			✓			
Base controls	1	✓	✓			
Platform controls	1	✓	✓			
Continuous drive and steer directional sensing	✓	✓	✓			
Diesel engine	✓	✓	✓			
Engine anti-restart protection	✓	✓	✓			
Foam-filled tires	✓	✓	✓			
Four-wheel drive	✓	✓	✓			
Variable speed drive and function controls	✓	✓	✓			
Glow plug heaters	✓	✓	✓			
Manual brake release	✓	✓	✓			
Operator horn	✓	✓	✓			
Oscillating axle (steer)	✓	✓	✓			
183 x 76 cm (72 x 30 in.) platform (with side gate)	1	✓				
Rear entry spring hinged gate	1	✓				
Spring-applied hydraulically released brake	1	✓	✓			
Operator-engaged differential lock			✓			
All function motion alarm	✓	✓	✓			
OPTIONAL E	QUIPMENT					
3500W hydraulic generator	✓	✓	✓			
Receptacle outlet cable on platform	✓	✓	✓			
Air line to platform	✓	✓	✓			
152 x 76 cm (60 x 30 in.) platform (with side gate)	✓	✓				
183 x 91 cm (72 x 36 in.) platform (with side gate)			✓			
Catalytic Muffler (Level 1)	✓	✓	✓			
Cold weather start kit (diesel)	✓	✓	✓			
Flashing amber light	✓	✓	✓			
Platform work light	✓	✓	✓			
Rear entry spring hinged gate			✓			

1049AA_AS

Tables Section 4

Table 4.2a Specifications and Features

MODEL		SJ 46AJ	SJ51AJ	SJ63AJ		
e or	Total platform length (outside)		183 cm	183 cm	183 cm/ 244 cm	
Platform Size	Tota	al platform depth (outside)	76 cm	76 cm	91 cm	
	Working		15.4 m	16.8 m	21.38 m	
ght		Platform elevated	14.2 m	15.6 m	19.38 m	
Height		Drive	Driveable at all heights	Driveable at all heights	Driveable at all heights	
	Turret		2.08 m	2.08 m	2.54 m	
gth	Overall with platform		6.5 m	7.25 m	9.14 m	
Length		Base and tires	2.9 m	2.9 m	3.38 m	
Width		Outside std. tires	2.2 m	2.2 m	2.44 m	
		Turret	1.8 m	1.8 m	2.24 m	
Weight	Wei	ight (with foam-filled tires)	6,400 kg	7,300 kg	9,934 kg	
	Pla	atform rotation	180 degrees	180 degrees	175 degrees	
	Н	prizontal reach	7.68 m	9.16 m	12.19 m	
	Horizontal re	each @ maximum height	2.58 m	2.96 m	4.80 m	
		Wheelbase	2.03 m	2.03 m	2.44 m	
	Т	urret rotation	360 degrees	360 degrees	360 degrees continuous	
	Tu	urret tailswing	-12.7 cm	0 cm	0 cm	
		Gradeability	45%	45%	45%	
	Ground cle	arance between wheels	40.6 cm	40.6 cm	33 cm	
	Inside	Differential lock engaged	3.83 m	3.83 m	N/A	
Turning	inside	Differential lock disengaged	2.48 m	2.48 m	2.21 m	
Radius	Outside	Differential lock engaged	6.45 m	6.45 m	N/A	
	Outside	Differential lock disengaged	5.15 m	5.15 m	5.31 m	
2		System voltage	12V DC	12V DC	12V DC	
Battery		Type Lead/Acid Lead/Acid		Lead/Acid		
		Cold cranking amperes 800A 800A		925A		
		Main boom up	23 - 29 seconds (approx.)	23 - 29 seconds (approx.)	26 - 34 seconds (approx.)	
		Main boom down	23 - 29 seconds (approx.)	23 - 29 seconds (approx.)	26 - 34 seconds (approx.)	
Riser boo		Riser boom up	23 - 29 seconds (approx.)	23 - 29 seconds (approx.)	23 - 31 seconds (approx.)	
ues		Riser boom down	23 - 29 seconds (approx.)	23 - 29 seconds (approx.)	23 - 31 seconds (approx.)	
Operating Times		Fly boom extend	8 - 14 seconds (approx.)	12 - 18 seconds (approx.)	26 - 34 seconds (approx.)	
ratin		Fly boom retract	16 - 22 seconds (approx.)	23 - 29 seconds (approx.)	30 - 38 seconds (approx.)	
Ope		Jib up	34 - 44 seconds (approx.)	34 - 44 seconds (approx.)	17 - 23 seconds (approx.)	
		Jib down	18 - 28 seconds (approx.)	18 - 28 seconds (approx.)	15 - 21 seconds (approx.)	
	Turret r	otate - counterclockwise 360° (fully stowed)	90 - 110 seconds (approx.)	90 - 110 seconds (approx.)	109 - 135 seconds (approx.)	
		Platform rotate - full	15 - 25 seconds (approx.)	15 - 25 seconds (approx.)	6 - 11 seconds (approx.)	
Driving Speeds	Drive	Drive speed (maximum-stowed) 7.7 kmh 7.7 kmh		7.3 km/h		
Driv	Drive	speed (maximum-elevated)	0.8 kph	0.8 kph	0.8 km/h	

1050AC_AS

Section 4 Tables

Table 4.2b Specifications and Features

		MODEL		SJ 46AJ	SJ 51AJ	SJ 63AJ		
	Engine Type			Deutz D2011L03i		Deutz D2011L04i		
	Fuel Type			Diesel		Diesel		
	Fuel Tank Capacity			64 L		120 L		
Engine - Deutz	Standard Oil Factory Fill		0°F to 115°F (- 18°C to +45°C)	SAE 15W-40 API CF/CG/CH-4		SAE 15W-40 API CF/CG/CH-6		
	Cold Lube Oil Option	Ambient Temperature	- 20°F to 90°F (- 29°C to +32°C)	SAE 5W-30 API CF/CG/CH-4		SAE 5W-40 API CF/CG/CH-6		
Eng	Arctic Lube Oil Option	Limits	- 40°F to 115°F (- 40°C to +45°C)	SAE 0W-40 API CF/CG/CH-4		SAE 0W-40 API CF/CG/CH-6		
	Approved Alternates			See Engine Manual		See Engine Manual		
		Lube Oil Sump Capacity		5.	5 L	10.0 L		
7			Туре	Shell Tellus T46		N/A		
/19	Recommended Oil	Operating and Oil	Ambient Operation	113°F (+45°C)		N/A		
- 46		Temperature Max. Oil Temp.		200°F (+93°C)		N/A		
ē	Approved Alternates			Chevron Rykon MV		N/A		
oj.		e: Cold weather starting temperatures can be improved		Mobilfluid 424		N/A		
drau	Recommended Oil Operating and Oil Ambient Operation Temperature Max. Oil Temp. Approved Alternates (Note: Cold weather starting temperatures can be improved with Skyjack options. Please consult your nearest Skyjack service center.) Hydraulic Tank Capacity		Esso Univis N46		N/A			
Ļ			91 L		N/A			
-	Hydraulic Cooler		100°F to 115°F (+38°C to +45°C)	N	//A	Oil cooler option recommended		
63AJ	Standard Oil Factory Fill		-15°F to 100°F (-26°C to +38°C)	N/A		Shell Tellus T46		
Hydraulic Oil - 63AJ	Arctic Oil Option Approved Ambient Temperature Limits	Temperature	- 40°F to 100°F (- 40°C to +38°C)	N/A		Esso/Mobil UNIVIS HVI 26 Petro-Canada HYDREX EXTREME		
draul		oved	-15°F to 100°F (-26°C to +38°C)	N/A		Mobilfluid 424,Esso UNIVIS N46,Chevron Rycon MV		
Ŧ	Alternates		- 40°F to 80°F (- 40°C to +27°C)	N/A		Mobil DTE 13M, Esso UNIVIS N22 Petro-Canada HYDREX MV Arctic 15		
-	Hydraulic Tank Capacity			N/A		115 L		
	Sound Pressure Level (ISO 3744) Guaranteed Sound Power Level (ISO 4871)			71dB(A) 102dB		80dB(A) 112dB		

1051AB_AS

Tables Section 4

Table 4.3 Owner's Annual Inspection Record

	<u>^</u>									
	Model Number:				Serial Number:					
*		20	20	20	20	20	20	20	20	20
**	† P /	SKYJACK.								

1001AA

This decal is located on the control compartment cowling. 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 6 months.

	Pictorial	Description
*		Inspection Date
**	† P 1	Inspector Signature

Section 4 Tables

Table 4.4 Tire/Wheel Specifications

	SJ 46AJ	SJ 51AJ	SJ 63AJ
Tire Size	315/55 D20	315/55 D20	355/55 D625
Туре	Foam-filled	Foam-filled	Foam Filled
Tire Ply Rating	12	12	14
Wheel Nuts Torque	393 Nm	393 Nm	393 Nm

1052AA AS

IMPORTANT

For proper function of each axle differential, all four wheels must have same tire size installed at all times. Failure to comply with this requirement will reduce the life of the differentials and reduce overall mobility of MEWP.

Table 4.5 Maximum Platform Capacities

	SJ 46AJ	SJ 51AJ	SJ 63AJ	
Total Canacity *	227 kg	227 kg	227 kg	
Total Capacity *	2 Persons	2 Persons	2 Persons	
Maximum Wind	12.5 m/s	12.5 m/s	12.5 m/s	
Maximum Side Force	400 N	400 N	400 N	
Tilt Cutout Setting	5 degrees x 5 degrees	5 degrees x 5 degrees	5 degrees x 5 degrees	

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Tables Section 4

	Gross Aerial	Total Aerial Platform Load				
MODEL	Platform Weight Wheel		LCP	OUP		
	kg	kg	kPa	kPa		
SJ 46AJ (Standard configuration)	6,627	3,315	856	10.1		
SJ 51AJ (Standard configuration)	7,527	3,640	940	11.0		
SJ 63AJ (Standard configuration)	10,161	5,080	1,195	12.1		

1054AD_AS

- 46AJ & 51AJ Standard Configuration = 4WD + Oscillating Axle + 315/55 D20 Foam Tires
- 63AJ Standard Configuration = 4WD + Oscillating Axle + 355/55 D625 Foam Tires
- Gross Aerial Platform Weight = Weight + platform capacity
- LCP Locally Concentrated Pressure is a measure of how hard the aerial platform tire tread presses on the area in direct contact with the floor. The floor covering (tile, carpet, etc.) must be able to withstand more than the indicated values above.
- OUP Overall Uniform Pressure is a measure of the average load the aerial platform imparts on the whole surface projected directly underneath it. The structure of the operating surface (beams, etc.) must be able to withstand more than the indicated values above.

NOTE:

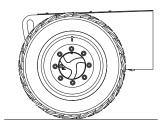
The LCP or OUP that an individual surface can withstand varies from structure to structure and is generally determined by the engineer or architect for that particular structure.

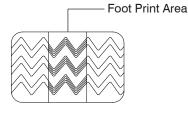
Locally Concentrated Pressure (LCP):

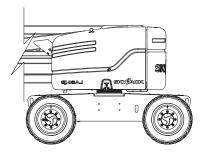
Foot Print Area identified by test.

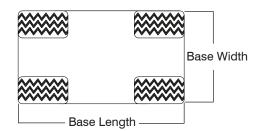
Overall Uniform Pressure (OUP):

Base Area = Length x Width











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

Section 4 Tables

General Maintenance

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

Table 4.7 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		'	Cylinders	А		
Labels	А		Wear Pads	А		
Electrical	А		Hoses	А		
Limit Switches	А		Power Track	Α	D++	
Hydraulic	А		Special Options		B*†	
Engine Compartment			Battery Warmer/Hydraulic Oil Heater (If Equipped)	А	,	
Main Power Disconnect Switch	Α		Work Light (If Equipped)	А		
Battery	Α		Flashing Amber Light (If Equipped)	А	,	
High Pressure Filter	Α		Function Tests	-		
Hydraulic Pumps	Α		Test Main Power Disconnect Switch	А		
Muffler and Exhaust	Α		Base Control Console			
Engine Pivot Tray	Α		Test Base Emergency Stop Light	А		
Engine Oil Level	Α		Test Base Emergency Stop	А		
Engine Air Filter	Α		Test Function Enable Switch & All Boom Functions	А	,	
Fuel Leaks	А		Test Platform Self-leveling	А		
Control Compartment			Test Emergency Power	А	*	
Base Control Console	А		Test Base/Off/Platform Switch	Α		
Hydraulic Tank	Α		Platform Control Console		*	
Hydraulic Oil	Α	B*†	Test Platform Emergency Stop Light	А	*	
Brake and Main Manifolds	Α		Test Platform Emergency Stop	А		
Emergency Power Unit	Α		Test Footswitch	А		
Fuel Tank	Α		Test Engine Enable Switch	А	*	
Fuel Leaks	Α		Test Steering	А	B*†	
Base			Test Driving Function	А	*	
Turret Transportation Lock	Α		Test Driving Speed	А	,	
Drive Axle	Α		Test Emergency Power	А		
Oscillating Cylinder Assembly	Α		Test Horn	А	,	
Steer Cylinder Assembly	Α		Test Brakes	А	*	
Tie Rod	Α		Test Manual Platform Leveling	А	,	
Wheel/Tire Assembly	Α		Test Differential Lock Switch	А		
Manuals	А		Test Oscillating Axles	А		
Platform Assembly	А		Optional Equipment/Attachments			
Platform Control Console	Α		Test Work Light (If Equipped)	А		
Rotary Actuator	А		Test All Motion Alarm (If Equipped)	А	•	
Jib (If Equipped)	Α		Test Flashing Amber Light (If Equipped)	А		
Boom			Test Hydraulic Generator (If Equipped)	А		

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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.
- \boldsymbol{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.



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.

Tables Section 4

Table 4.8 Operator's Checklist



Serial Number:									
Model:									
Hourmeter Reading:				Operator's Name (Printed):					
Date:									
Time:					Operator's Signature:				
Each item shall be inspected using the As each item is inspected, check the ap P - PASS F - FAIL R - REPAIRED NA - NOT APPLICABLE	propri	iate b	oox.		INSPECTION FREQUENCY DAILY FREQUENTLY ANNUALLY BI-ANNUALLY	T.,,		<u> </u>	
Visual and Daily Maintenance Inspections	NA	Р	F	R	O. Hardana	NA	Р	F	R
Visual and Daily Maintenance Inspections			_		Cylinders	+-	-	$\vdash\vdash\vdash$	
Labels Electrical					Wear Pads	+		$\vdash \vdash$	
Limit Switches					Hoses Power Track	+		\vdash	
Hydraulic					Special Options			$\vdash\vdash\vdash$	
Engine Compartment					Battery Warmer/Hydraulic Oil Heater (If Equipped)			$\vdash\vdash\vdash$	
Main Power Disconnect Switch					Work Light (If Equipped)	+		\vdash	
Battery					Flashing Amber Light (If Equipped)	+		\vdash	
High Pressure Filter					Function Tests				
Hydraulic Pumps					Test Main Power Disconnect Switch				
Muffler and Exhaust					Base Control Console				
Engine Pivot Tray					Test Base Emergency Stop Light				
Engine Oil Level					Test Base Emergency Stop				
Engine Air Filter					Test Function Enable Switch & All Boom Functions				
Fuel Leaks					Test Platform Self-leveling				
Control Compartment					Test Emergency Power				
Base Control Console					Test Base/Off/Platform Switch				
Hydraulic Tank					Platform Control Console				
Hydraulic Oil					Test Platform Emergency Stop Light				
Brake and Main Manifolds					Test Platform Emergency Stop				
Emergency Power Unit					Test Footswitch				
Fuel Tank					Test Engine Enable Switch				
Fuel Leaks					Test Steering				
Base					Test Driving Function				
Turret Transportation Lock					Test Driving Speed				
Drive Axle					Test Emergency Power			igsqcup	
Oscillating Cylinder Assembly					Test Horn			igsqcup	
Steer Cylinder Assembly					Test Brakes				

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Note:

Test Manual Platform Leveling

Test Differential Lock Switch

Test Work Light (If Equipped)

Optional Equipment/Attachments

Test All Motion Alarm (If Equipped)

Test Flashing Amber Light (If Equipped)

Test Hydraulic Generator (If Equipped)

Test Oscillating Axles

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



Tie Rod

Manuals

Boom

Wheel/Tire Assembly

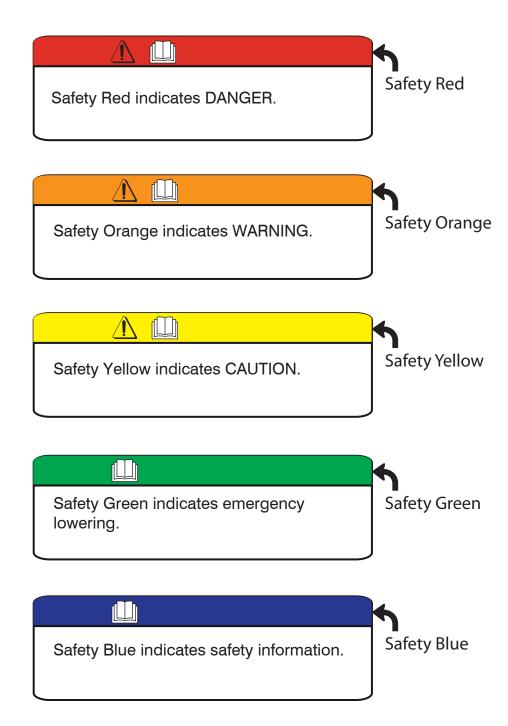
Platform Control Console

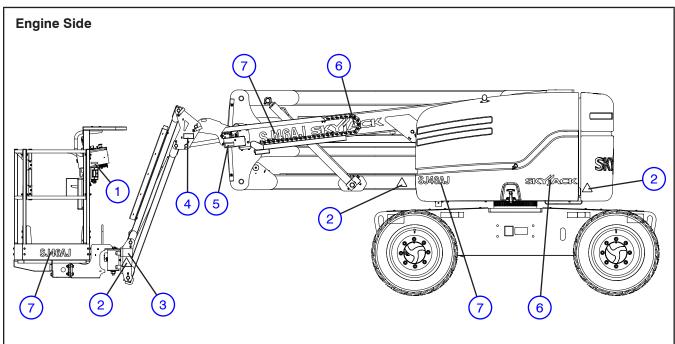
Platform Assembly

Rotary Actuator

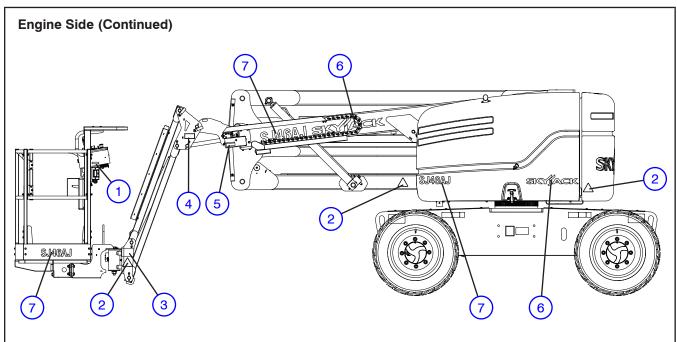
Jib (If Equipped)

Label Legend

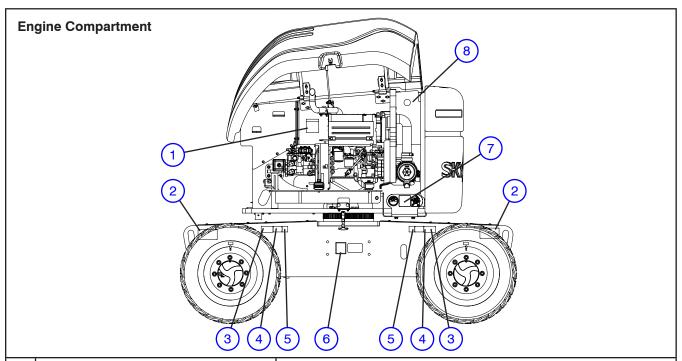




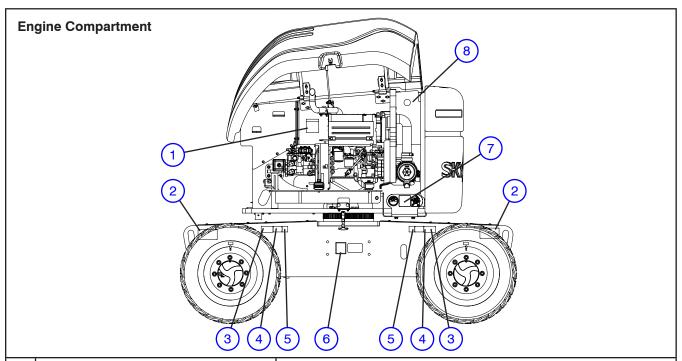
No.	Label Pictorial	Description
1	40-	Connect AC Supply Connect AC supply here.
2		Body Crushing Hazard Danger - Body crushing hazard
3		Tie Down Points Only use these points for tying down.
4		Crushing Hazard Danger - Crushing hazard



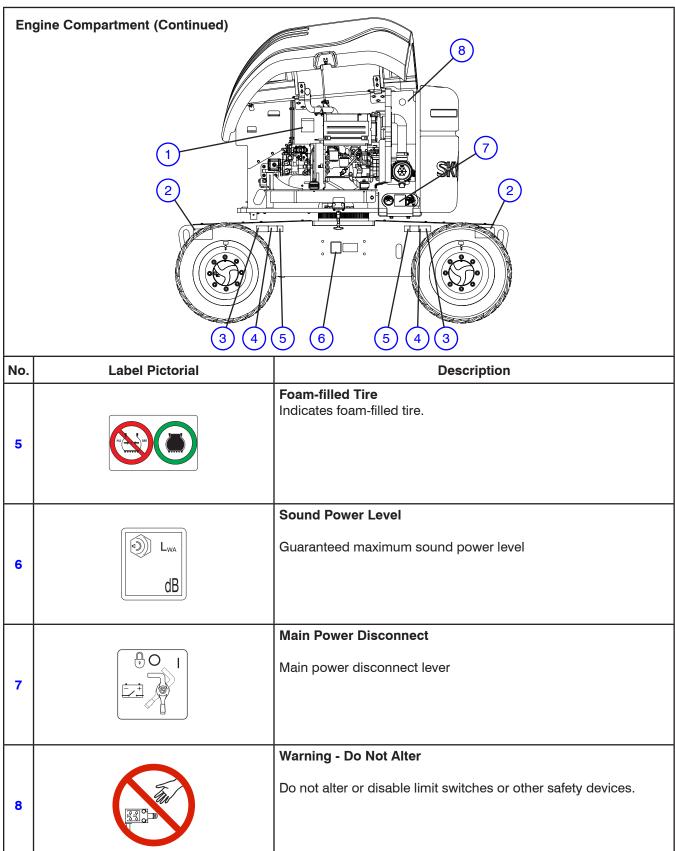
No.	Label Pictorial	Description
5		Warning - Do Not Alter Do not alter or disable limit switches or other safety devices.
6	SKYJACK	Skyjack Logo Skyjack
7	SJ46AJ	Model Number* Product Identifier *Model number will vary, may not be as shown.



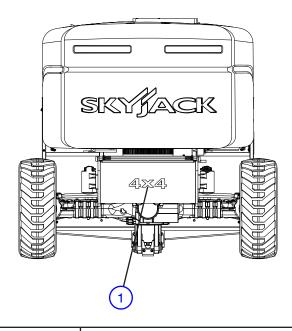
No.	Label Pictorial	Description
No.	Label Pictorial	Description Winching/Towing/Pushing Procedure Refer to Operating manual. 1. Block or chock wheels to prevent MEWP from rolling. 2. Turn main power disconnect switch to off position. At engine side: 3. Locate bypass valve (marked with yellow colour) on inboard side of drive pump.
1	A D D D D D D D D D D D D D D D D D D D	 4. Rotate bypass valve flat using pliers or 1/4" (7mm) wrench by 90 degrees (clockwise). At hydraulic tank side: Locate brake valve and pump. Push in black knob. Pump by pushing red knob in and out until firm resistance is felt or until 300 psi/21 bar shows on the gauge (if equipped). Brake is now released. A) Remove blocks from wheels.



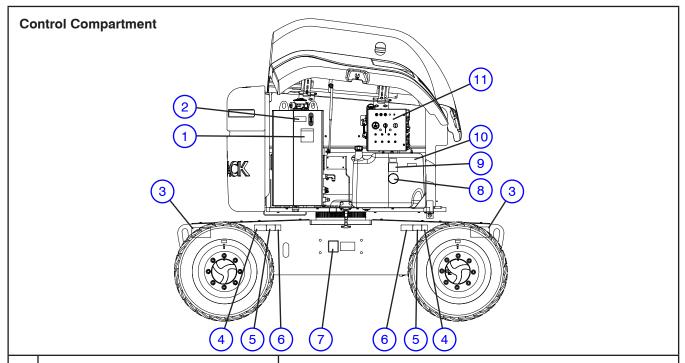
No.	Label Pictorial	Description
2		Lift and Tie Down Points Only use these points for lifting or tying down.
3	TOTO TOTO TOTO TOTO TOTO TOTO TOTO TOT	Wheel Specifications Refer to manual for wheel type, offset, pressure and torque.
4		Wheel Load* Indicates rated wheel load. *Wheel load will vary over different MEWPs.



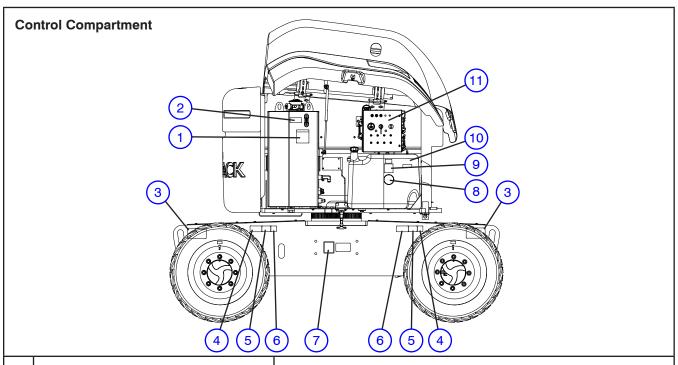




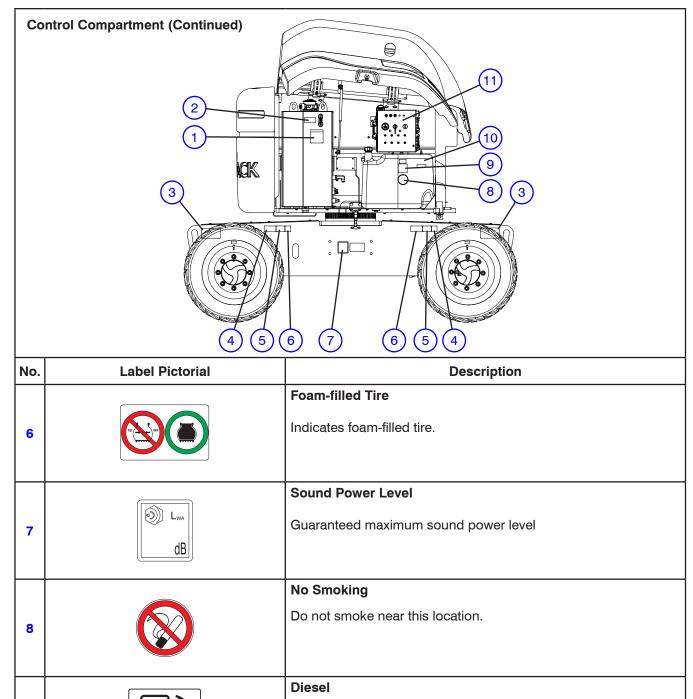
4x4 (If Equipped) Product identifier - 4 wheel drive



No.	Label Pictorial	Description
No.	Label Pictorial	Winching/Towing/Pushing Procedure Refer to Operating manual. 1. Block or chock wheels to prevent MEWP from rolling. 2. Turn main power disconnect switch to off position. At engine side: 3. Locate bypass valve (marked with yellow colour) on inboard side of drive pump. 4. Rotate bypass valve flat using pliers or 1/4" (7mm) wrench by 90 degrees (clockwise). At hydraulic tank side: 5. Locate brake valve and pump. 6. Push in black knob. 7. Pump by pushing red knob in and out until firm resistance is felt or until 300 psi/21 bar shows on the gauge (if equipped). Brake is now released.
	300 pois/2 t bar	



No.	Label Pictorial	Description
2		Hydraulic Oil Level Indicates minimum/maximum oil level.
3		Lift and Tie Down Points Only use these points for lifting or tying down.
4	TOTO TO THE PARTY OF THE PARTY	Wheel Specifications Refer to manual for wheel type, offset, pressure and torque.
5	(b)	Wheel Load* Indicates rated wheel load. *Wheel load will vary over different MEWPs.



Use diesel fuel only.

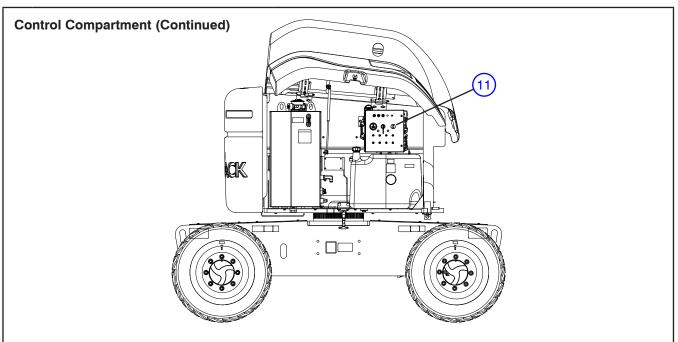
MEWP.

Grease Points Maintenance

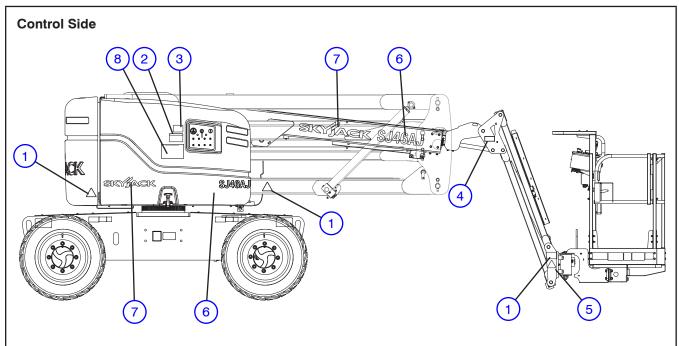
Refer to service and maintenance manual " for lubricating

9

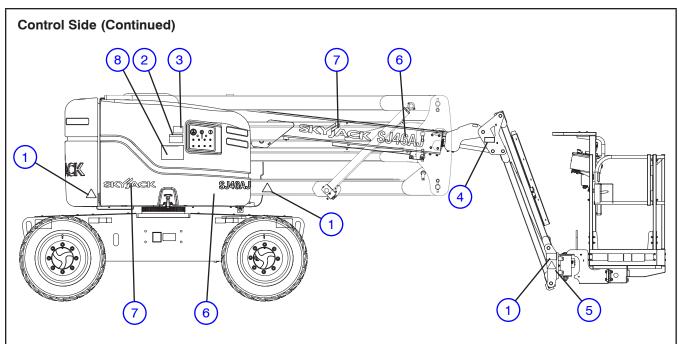
10



No.	Label Pictorial	Description
11		Push "breaker back in to reset. Select and hold "" to enable error blink code for engine control unit (ECU). Read "" operating manual. Select "to "to enable base control console, "O" to turn engine off or "to enable platform control console. Push "emergency stop to stop engine and disable controls. Select "to rotate platform to the left or "to retract fly boom. Select "to rotate platform to the left or "to rotate to the right. Select "to move jib up or "to move jib down. Select "to rotate turret to the left or "to rotate to the right. Select "to rotate turret to the left or "to rotate to the right. Select "to rotate turret to the left or "to rotate to the right. Select "to rotate turret to the left or "to rotate to the right. Select "to rotate turret to the left or "to lower main boom. Push and hold "O" to start engine or "to lower main boom. Push and hold "O" in either direction to enable base control functions.



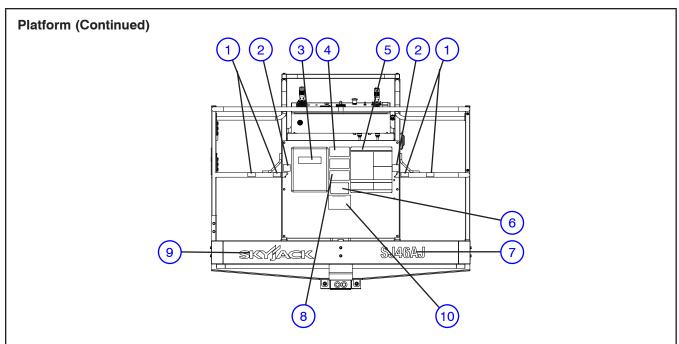
No.	Label Pictorial	Description
1		Body Crushing Hazard Danger - Body crushing hazard
2	Model S.N	Annual Inspection Ensure that work platform has received annual inspection prior to operation.
3	EMERGENCY LOWERING PROCEDURE At Base Controls: Ensure engine is off. 1 Pull out emergency stop button. 2. Turn base-loft-glatform key switch to see or processing to the control of th	Emergency Lowering Procedure In case of emergency, follow procedure outlined in label to lower the platform.
4		Crushing Hazard Danger - Crushing hazard



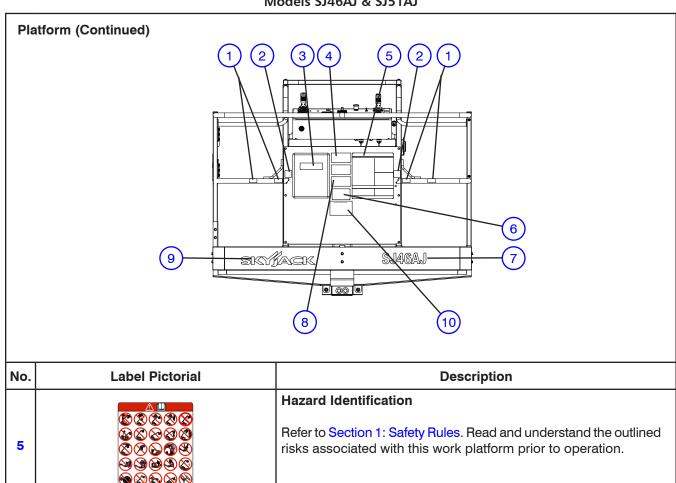
No.	Label Pictorial	Description
5		Tie Down Points Only use these points for tying down.
6	SJ46AJ	Model Number* Product Identifier *Model number will vary, may not be as shown.
7	SKYJACK	Skyjack Logo Skyjack
8	Characterist Readingsments for Experting this-instantial Matter Flast Societies (Developing Mark Paris Societies (Developing Mark Pa	EWPA Clearance Requirements Clearance requirements for operating non-insulated mobile plant, including elevating work platforms near power lines.

Platform Label Pictorial No. Description

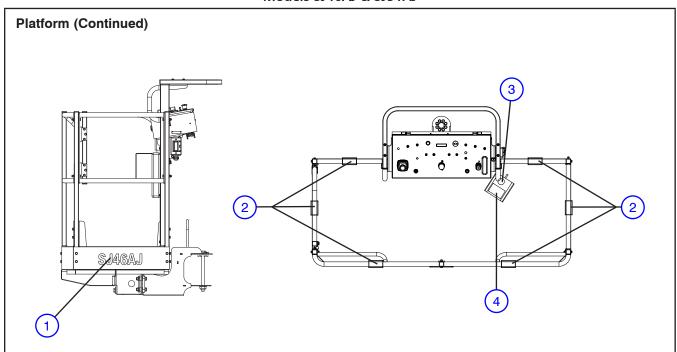
		Platform Capacity*
1	inin kg □ l·l = (lb) ↓↓↓↓	Rated work load when operating on a level ground. Rated work load includes the weight of both personnel and material, and maximum number of people in each configuration. Do not exceed total weight or maximum number of people. Load platform uniformly. *Platform capacity will vary over different MEWPs.
2		Operator's Daily Inspection. Refer to the Operating manual. Perform visual inspection and function tests at the beginning of each shift. Refer to Table 4.7 Maintenance and Inspection Schedule.
3	N (lb)	Horizontal Load Rating Apply no more than indicated side load. Operate below indicated wind speed only.
4		No Jewelry Caution - Do not wear jewelry.



No.	Label Pictorial	Description
1		Warning - No Step No step warning
2		Harness Anchorage Anchor safety belt/harness tethers here.
3		Manual Box Indicates location of operating manual.
4	inn kg □ II-I = (Ib)	Platform Capacity* Rated work load when operating on a level ground. Rated work load includes the weight of both personnel and material, and maximum number of people in each configuration. Do not exceed total weight or maximum number of people. Load platform uniformly. *Platform capacity will vary over different MEWPs.

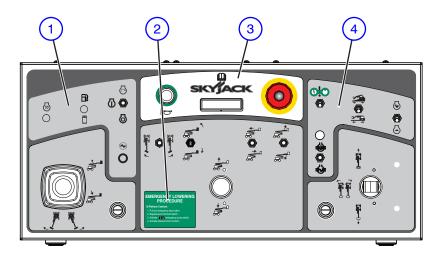


1140.	Label Fictorial	Description
5	\$\bar{\alpha} \\ \alpha \\	Hazard Identification Refer to Section 1: Safety Rules. Read and understand the outlined risks associated with this work platform prior to operation.
6	Click It! Wear a full body harness with a short lanyard in boom type platforms	AWPT "Click It!" Indicates full body harness awareness.
7	SJ46AJ	Model Number* Product Identifier *Model number will vary, may not be as shown.
8	N (Ib) (mph)	Horizontal Load Rating Apply no more than indicated side load. Operate below indicated wind speed only.
9	SKYJACK	Skyjack Logo Skyjack
10	One are in Equipment to Piger along Not considered death Part School (1997) and the Constraint of the	EWPA Clearance Requirements Clearance requirements for operating non-insulated mobile plant, including elevating work platforms near power lines.



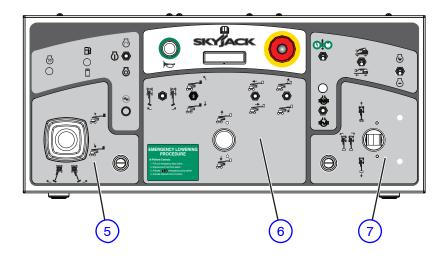
No.	Label Pictorial	Description
1	SJ46AJ	Model Number* Product Identifier *Model number will vary, may not be as shown.
2		Crushing Hazard Danger - Crushing hazard
3		Warning - Do Not Alter Do not alter or disable limit switches or other safety devices.
4		Footswitch Enable (On/Off) Depress and hold footswitch to enable platform function.

Platform Control Console

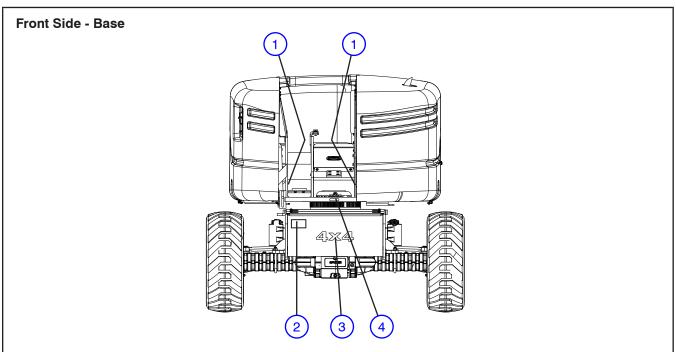


No.	Label Pictorial	Description
1		Glow Plugs/Start Engine Select """ to energize glow plugs. Push and hold "" to start engine and then return to "" on position or select "" to turn engine off. Select "" to turn hydraulic generator on or "" to turn it off.
2	EMERGENCY LOWERING PROCEDURE If the filter distribution of the control of the co	Emergency Lowering Procedure Follow procedure outlined in label to lower the platform.
3	SKYJACK O	E-Stop/Horn Select "" to sound horn. Read operating manual "". Push "" emergency stop to stop engine and disable controls.
4		Engine Controls/Emergency Power Unit Select "To enable emergency power unit. Select "To enable emergency power unit.

Platform Control Console (Continued)

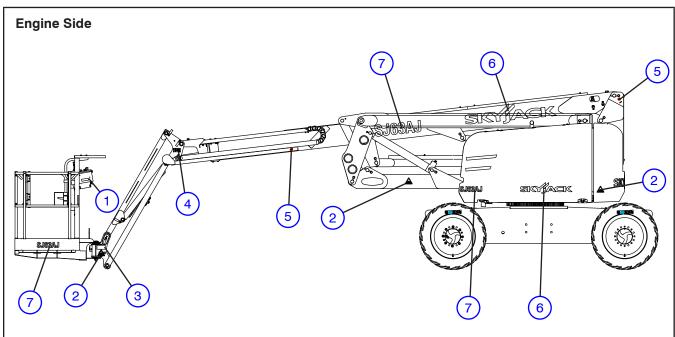


No.	Label Pictorial	Description
5		Push and hold controller in this direction " to rotate turret to the left or " to rotate turret to the right. Push and hold the controller in this direction " to raise main boom or " to lower main boom.
6		Select "" to rotate platform to the left or "" to the right. Select "" to tilt platform up or "" down Select "" to extend fly boom or "" to retract fly boom. Select "" to move jib up or "" to move jib down. Select "" to raise riser or "" to lower riser.
7		Drive/Steer Controller Press rocker switch in this direction " to steer left or " to steer right. Push and hold controller in this direction " to drive forward or " to drive backward.

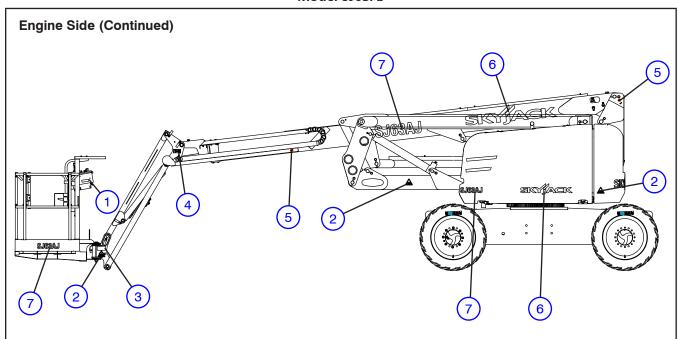


No.	Label Pictorial	Description
1	I SE T SE	Body Crushing Hazard Danger - Body crushing hazard
2	Similar number Similar Similar number Similar num	Serial Plate* Product identification and specifications *Serial plates will vary, may not be as shown.
3		4x4 (If Equipped) Product identifier - 4 wheel drive
4	40-0-	Connect AC Supply Connect AC supply here.

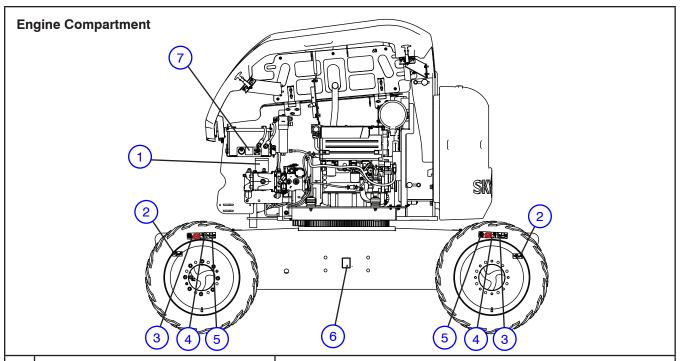
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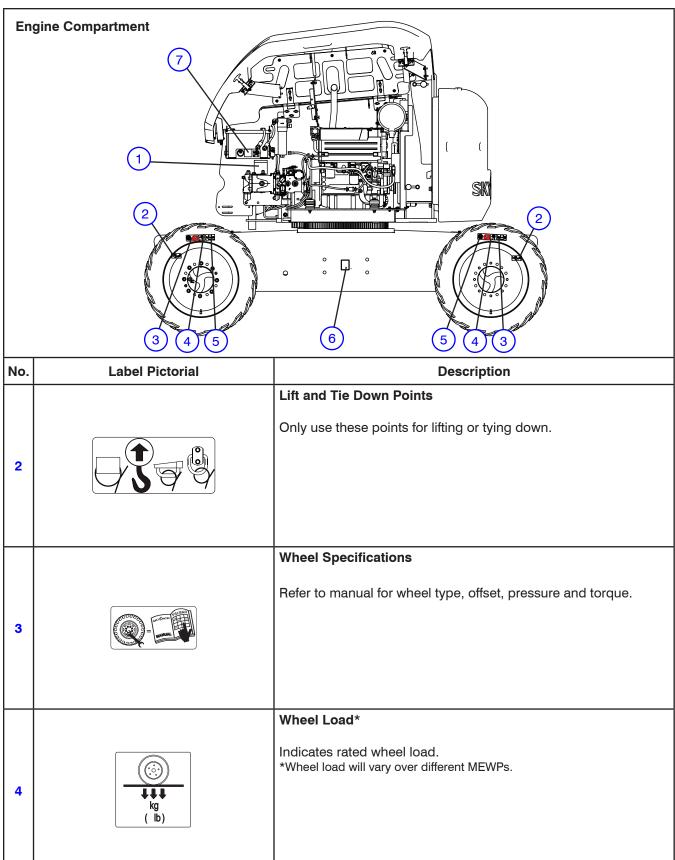
No.	Label Pictorial	Description
1	TAC TAC	Connect AC Supply Connect AC supply here.
2		Body Crushing Hazard Danger - Body crushing hazard
3		Tie Down Points Only use these points for tying down.
4		Crushing Hazard Danger - Crushing hazard

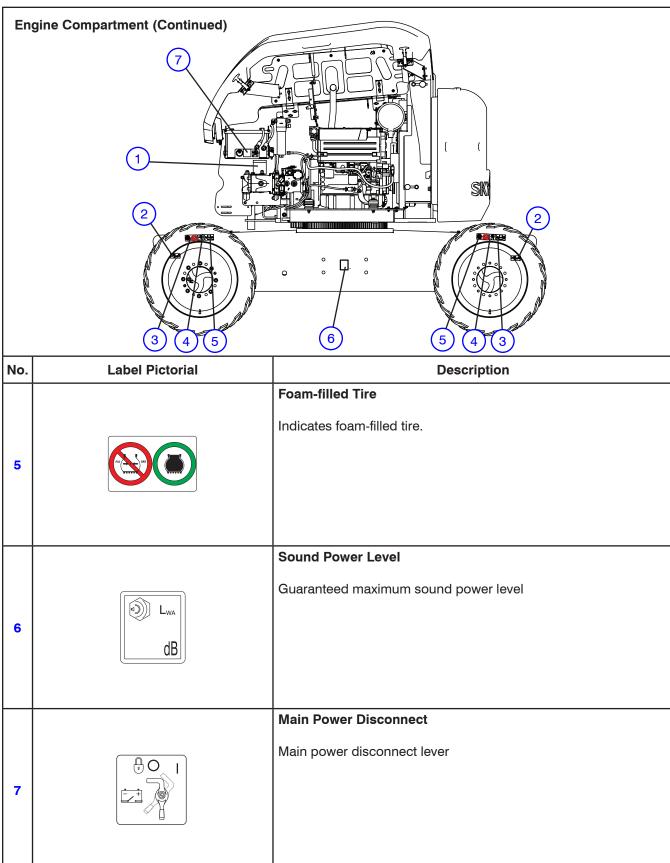


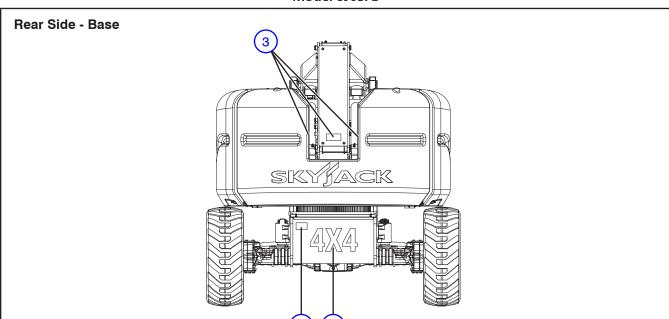
No.	Label Pictorial	Description
5	O D D D D D D D D D D D D D D D D D D D	Warning - Do Not Alter Do not alter or disable limit switches or other safety devices.
6	SKYJACK	Skyjack Logo Skyjack
7	SJ63AJ	Model Number* Product Identifier *Model number will vary, may not be as shown.



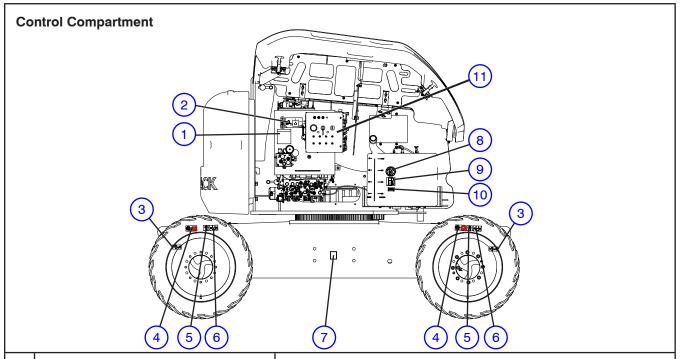
No.	Label Pictorial	Description
No.	Label Pictorial	Winching/Towing/Pushing Procedure Refer to Operating manual. 1. Block or chock wheels to prevent MEWP from rolling. 2. Turn main power disconnect switch to off position. At engine side: 3. Locate bypass valve (marked with yellow colour) on inboard side of drive pump. 4. Rotate bypass valve flat using pliers or 1/4" (7mm) wrench by 90 degrees (clockwise). At hydraulic tank side: 5. Locate brake valve and pump. 6. Push in black knob. 7. Pump by pushing red knob in and out until firm resistance is felt or until 300 psi/21 bar shows on the gauge (if equipped). Brake is now released. 8. A) Remove blocks from wheels. B) Push/tow/winch to desired location. 9. Block or chock wheels to prevent MEWP from rolling. At hydraulic tank side:
		Brake is now released. 8. A) Remove blocks from wheels. B) Push/tow/winch to desired location. 9. Block or chock wheels to prevent MEWP from rolling.
		10. Reset brake by pulling out black knob. At engine side:
		11. Close bypass valve by rotating 90 degrees (counterclockwise) to normal condition (flat is parallel to shaft axis).
		NOTE Before operation, ensure all blocks are removed from wheels.



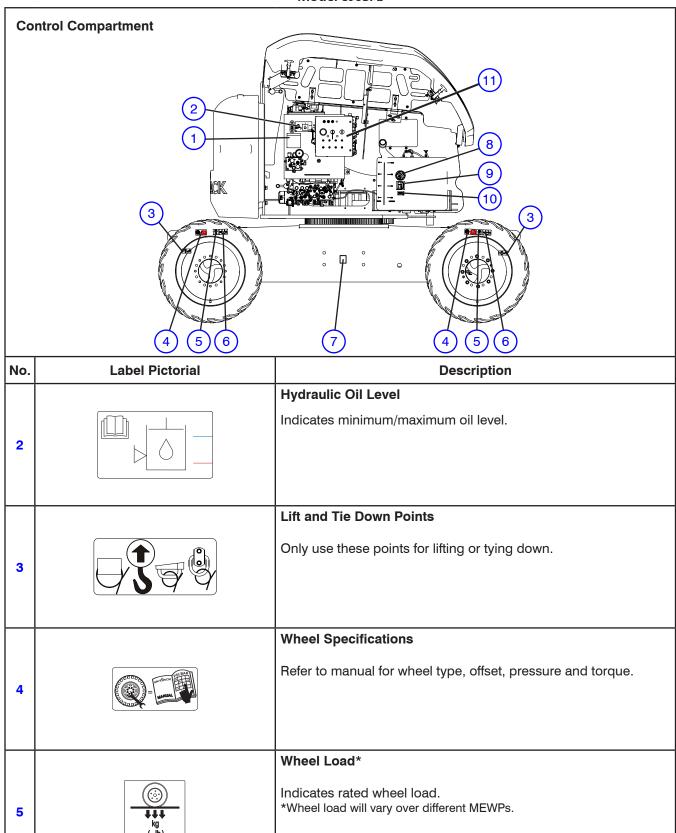


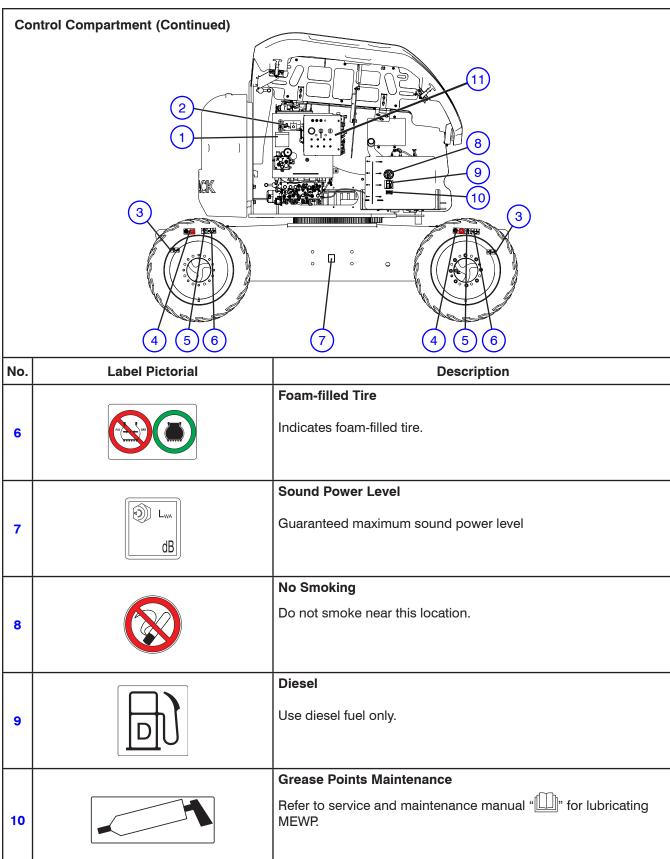


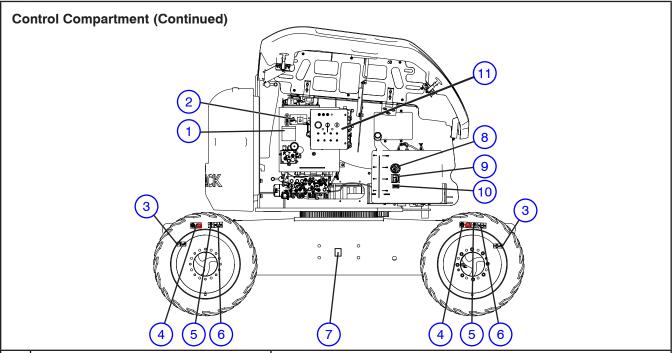
No.	Label Pictorial	Description
1	Mode in Connection But Personal Application State of Sta	Serial Plate* Product identification and specifications *Serial plates will vary, may not be as shown.
2		4x4 (If Equipped) Product identifier - 4 wheel drive
3		Crushing Hazard Danger - Crushing hazard



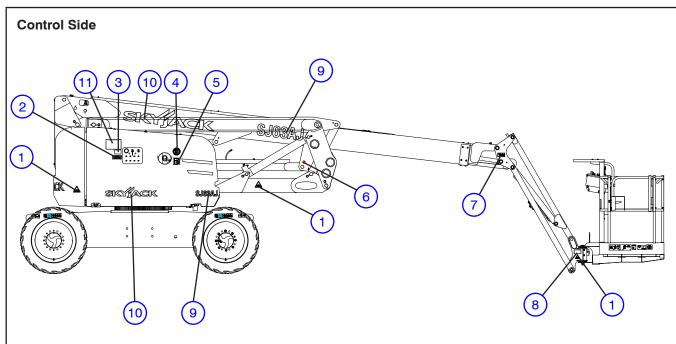
No.	Label Pictorial	Description
No.	Label Pictorial	Winching/Towing/Pushing Procedure Refer to Operating manual. 1. Block or chock wheels to prevent MEWP from rolling. 2. Turn main power disconnect switch to off position. At engine side: 3. Locate bypass valve (marked with yellow colour) on inboard side of drive pump. 4. Rotate bypass valve flat using pliers or 1/4" (7mm) wrench by 90 degrees (clockwise). At hydraulic tank side: 5. Locate brake valve and pump. 6. Push in black knob. 7. Pump by pushing red knob in and out until firm resistance is felt or until 300 psi/21 bar shows on the gauge (if equipped). Brake is now released. 8. A) Remove blocks from wheels. B) Push/tow/winch to desired location. 9. Block or chock wheels to prevent MEWP from rolling. At hydraulic tank side: 10. Reset brake by pulling out black knob. At engine side: 11. Close bypass valve by rotating 90 degrees (counterclockwise) to normal condition (flat is parallel to shaft axis).
		NOTE Before operation, ensure all blocks are removed from wheels.



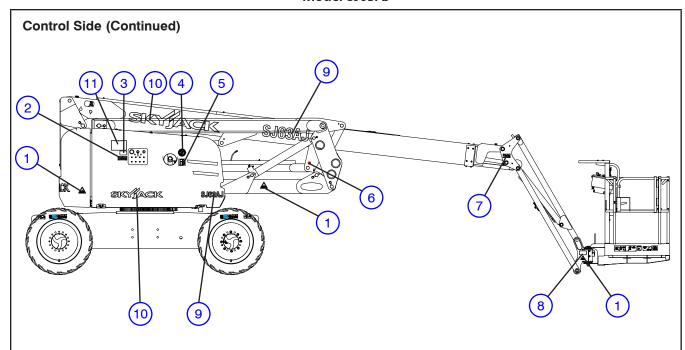




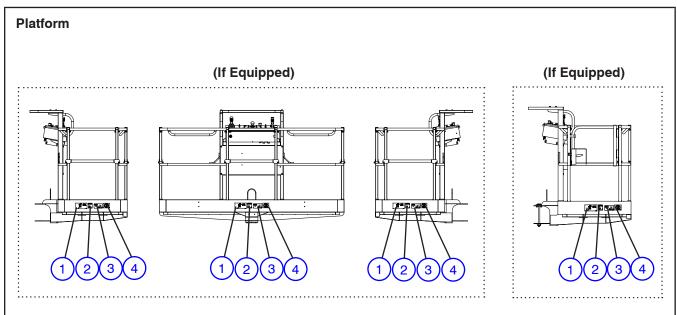
No.	Label Pictorial	Description
11		Push "breaker back in to reset. Select and hold "" to enable error blink code for engine control unit (ECU). Read "" operating manual. Select "to " to enable base control console, "O" to turn engine off or "P" to enable platform control console. Push "emergency stop to stop engine and disable controls. Select "to rotate platform to the left or "to retract fly boom. Select "to rotate platform up or "to rotate to the right. Select "to move jib up or "to move jib down. Select "to rotate turret to the left or "to rotate to the right. Select "to rotate turret to the left or "to rotate to the right. Select "to rotate turret to the left or "to rotate to the right. Select "to rotate turret to the left or "to rotate to the right. Select "to rotate turret to the left or "to lower riser. Select "to rotate main boom or "to lower main boom. Push and hold "O" to start engine or "to lower main boom. Push and hold "O" in either direction to enable base control functions.



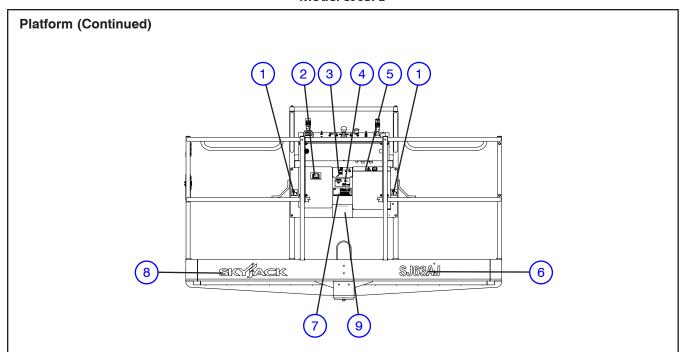
No.	Label Pictorial	Description
1	→Z [†] NS←	Body Crushing Hazard Danger - Body crushing hazard
2	Model	Annual Inspection Ensure that work platform has received annual inspection prior to operation.
3	EMERGENCY LOWERING PROCEDURE To class a support of the process of	Emergency Lowering Procedure In case of emergency, follow procedure outlined in label to lower the platform.
4		No Smoking Do not smoke near this location.
5		Diesel Use diesel fuel only.
6		Warning - Do Not Alter Do not alter or disable limit switches or other safety devices.



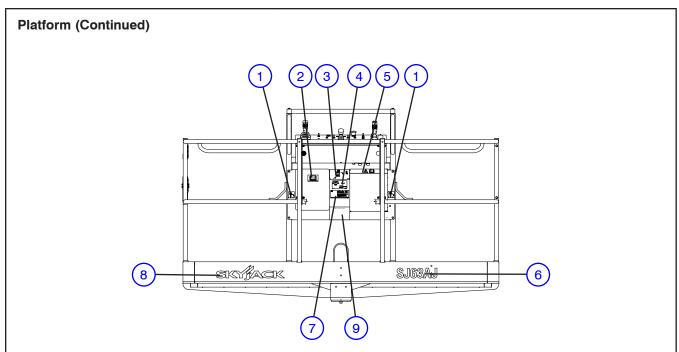
No.	Label Pictorial	Description			
7		Crushing Hazard Danger - Crushing hazard			
8		Tie Down Points Only use these points for tying down.			
9	SJ63AJ	Model Number* Product Identifier *Model number will vary, may not be as shown.			
10	SKYJACK	Skyjack Logo Skyjack			
11	Concrease to the part instants to the part of the part	EWPA Clearance Requirements Clearance requirements for operating non-insulated mobile plant, including elevating work platforms near power lines.			



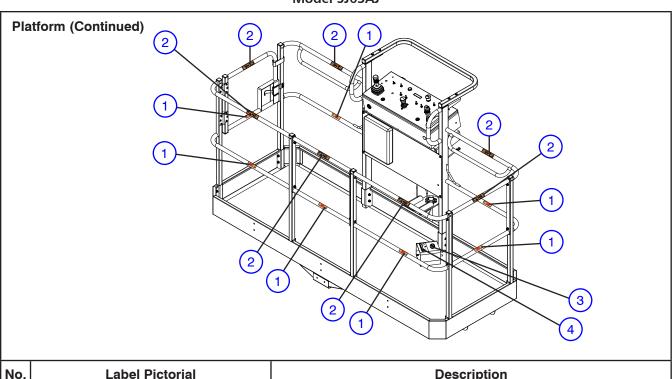
No.	Label Pictorial	Description	
1	Platform Capacity* Rated work load when operating on a level growork load includes the weight of both personnel and maximum number of people in each configurate exceed total weight or maximum number of people. Louniformly. *Platform capacity will vary over different MEWPs.		
2	Operator's Daily Inspection. Refer to the Operating manual. Perform visual inspection function tests at the beginning of each shift. Refer to Table Maintenance and Inspection Schedule.		
3	Horizontal Load Rating Apply no more than indicated side load. Operate belowind speed only.		
4		No Jewelry Caution - Do not wear jewelry.	



No.	Label Pictorial	Description			
1	Harness Anchorage Anchor safety belt/harness tethers here.				
2		Manual Box Indicates location of operating manual.			
3	kg	Platform Capacity* Rated work load when operating on a level ground. Rated work load includes the weight of both personnel and material, and maximum number of people in each configuration. Do not exceed total weight or maximum number of people. Load platform uniformly. *Platform capacity will vary over different MEWPs.			
4	N (b) m/s (mph)	Horizontal Load Rating Apply no more than indicated side load. Operate below indicated wind speed only.			

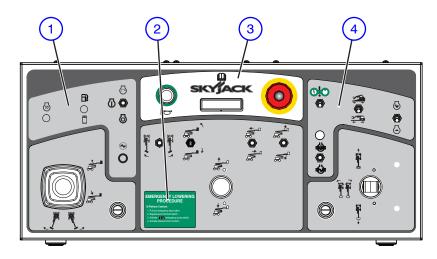


No.	Label Pictorial	Description		
5	\$\bar{\alpha}\chi \bar{\alpha}\chi	Hazard Identification Refer to Section 1: Safety Rules. Read and understand the outlined risks associated with this work platform prior to operation.		
6	SJ63AJ	Model Number* Product Identifier *Model number will vary, may not be as shown.		
7	Click It! Wear a full body harness with a short lanyard in boom type platforms	AWPT "Click It!" Indicates full body harness awareness.		
8	SKYJACK	Skyjack Logo Skyjack		
9	Converse Report results for Experiently Non-incident Marko Point Incident (Section Non-Point Line) Line Converse Non-Point Li	EWPA Clearance Requirements Clearance requirements for operating non-insulated mobile plant, including elevating work platforms near power lines.		



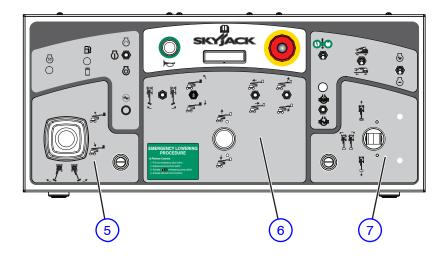
No.	Label Pictorial	Description		
1		Warning - No Step No step warning		
2		Crushing Hazard Danger - Crushing hazard		
3		Warning - Do Not Alter Do not alter or disable limit switches or other safety devices.		
4		Footswitch Enable (On/Off) Depress and hold footswitch to enable platform function.		

Platform Control Console

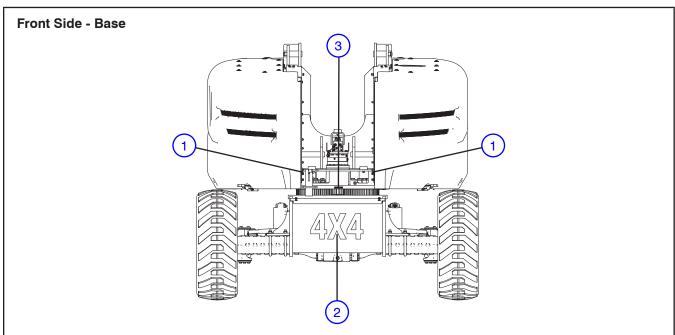


No.	Label Pictorial	Description	
1		Glow Plugs/Start Engine Select """ to energize glow plugs. Push and hold "" to start engine and then return to "" on position or select "" to turn engine off. Select "" to turn hydraulic generator on or "" to turn it off.	
2	Emergency Lowering Procedure Procedure To Interpret table To In		
3	SKYJACK O	E-Stop/Horn Select " to sound horn. Read operating manual "	
4		Engine Controls/Emergency Power Unit Select "To enable emergency power unit. Select "To enable emergency power unit.	

Platform Control Console (Continued)



No.	Label Pictorial	Description			
5		Boom/Turret Controller Push and hold controller in this direction " " to rotate turret to the left or " " to rotate turret to the right. Push and hold the controller in this direction " " to raise main boom or " " to lower main boom.			
6		Boom/Jib/Platform Controls Select "" to rotate platform to the left or "" to the right. Select " " to tilt platform up or " " down Select " " to extend fly boom or " " to retract fly boom. Select " " to move jib up or " " to move jib down. Select " " to raise riser or " " to lower riser.			
7		Press rocker switch in this direction to steer left or to steer right. Push and hold controller in this direction to drive forward or to drive backward.			



No.	Label Pictorial	Description	
1		Body Crushing Hazard Danger - Body crushing hazard	
2		4x4 (If Equipped) Product identifier - 4 wheel drive	
3	40-0-	Connect AC Supply Connect AC supply here.	

Notes

Notes

