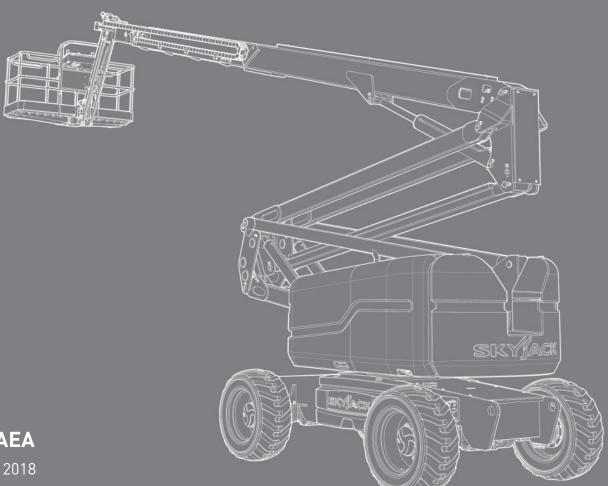


OPERATING MANUAL

SJ85AJ

ARTICULATING BOOMS



208932AEA

November 2018 AS

This manual is based on Serial Number(s):

SJ85AJ: 95 400 001 & Above

Please refer to the website (www.skyjack.com) for other Serial Numbers, most recent Technical Manuals and USB software.

Original instructions in English.

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THIS SAFETY ALERT SYMBOL MEANS ATTENTION!



BE ALERT! YOUR SAFETY IS INVOLVED.

The Safety Alert Symbol identifies important safety messages on MEWPs, 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.

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 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.

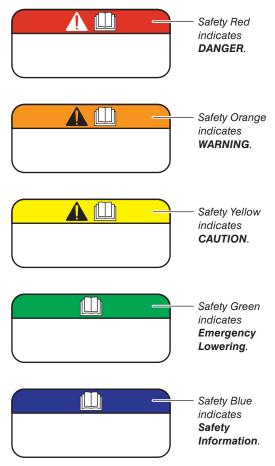


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Section 1 – About Your Mobile Elevating Work Platform (MEWP)

1.1 Read and Heed

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

1.1-1 Mobile Elevating Work Platform (MEWP) Definition

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

1.1-2 Purpose of Equipment

The SKYJACK Articulating Boom Series (Model SJ 85AJ) MEWP is designed to transport and raise personnel, tools and materials to overhead work areas.

1.1-3 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.

1.1-4 Manual

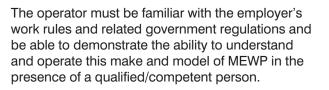
The operating manual is considered a fundamental part of the MEWP. It is a very important way to communicate necessary safety information to users and operators. A complete and legible copy of this manual must be kept in the provided weather-resistant storage compartment on the MEWP at all times.

1.1-5 Operator

The operator must read and completely understand this operating manual, the safety panel label located on the platform, the limitations, operating procedures, operator's responsibility for maintenance and all other warnings and instructions 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.

Only trained and authorized personnel shall be permitted to operate a MEWP.



1.1-6 Service Policy and Warranty

SKYJACK warrants each new product to be free of defective parts and workmanship for the first 2 years or 3000 hours, whichever occurs first. Any defective part will be replaced or repaired by your local SKYJACK dealer at no charge for parts or labor. In addition, all products have a 5 year structural warranty. Contact the SKYJACK Service Department for warranty statement extensions or exclusions.

1.1-7 Ownership of Machine

Notify Skyjack of machine ownership. If you have sold or transferred any machine, promptly notify Skyjack of new owner's contact information.

1.1-8 Optional Accessories

The SKYJACK MEWP is designed to accept a variety of optional accessories. These are listed under 7.2 Standard and Optional Features. Operating instructions for these options (if equipped) are located in Section 5 – Operation of this manual.

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

Include the model and serial number for each applicable MEWP.

1.1-9 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.
- 2. Operators are required to conform to national, state or territorial/provincial and local health and safety regulations applicable to the operation of this MEWP.

1.2 Major Assemblies

The MEWP consists of four major assemblies: the base, turret, boom assembly and platform. Refer to Figure 02.

1.2-1 Base

The base is a rigid one-piece weldment. The rear axle is hydraulic motor-driven and has springapplied, hydraulically released brakes. The front axle is steerable by a hydraulic cylinder and has springapplied, hydraulically released brakes. The rear axle is coupled to the front axle by a drive shaft.

1.2-2 Turret

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

1.2-3 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. The SJ85AJ model is equipped with a jib, controlled by a double-acting hydraulic cylinder.

1.2-4 Platform

The platform is constructed of a skid-resistant deck surface allowing visibility through the deck and a high tubular steel railing system with mid rails and toe boards. The platform can be entered through a tri-entry drop bar or an optional swing gate at the side of the railing system. The platform can be rotated in either direction. An AC GFI outlet is also located on the platform.

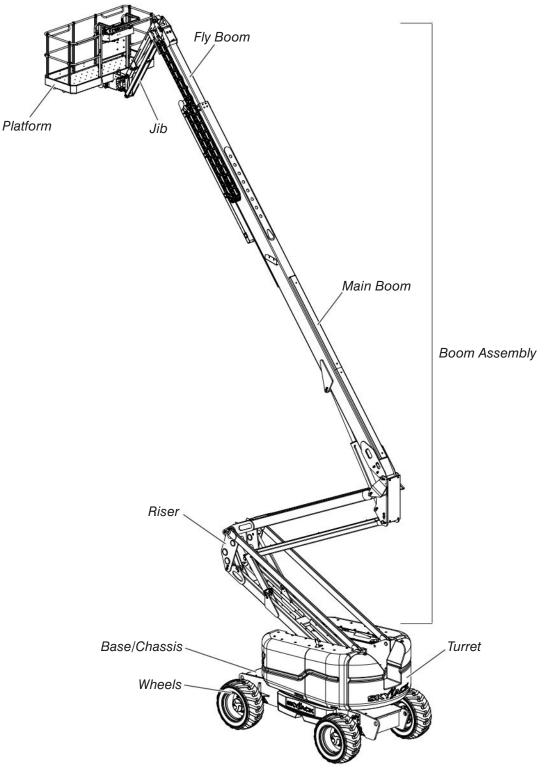


Figure 02 Major Assemblies

1.3 Serial Number Nameplate

The serial number nameplate (refer to Section 8 - Labels), located at the rear of the MEWP, lists the following:

- Model number
- Serial number
- Registration number
- High capacity zone and maximum number of persons
- Low capacity zone and maximum number of persons
- Maximum wind speed
- Maximum manual force
- Voltage
- Machine weight
- Drive height
- Platform height
- System pressure
- Lift pressure
- Maximum wheel load
- Maximum incline
- Year of manufacture
- Model year

1.4 Responsibility for Maintenance

1.4-1 Operator's Responsibility for Maintenance

🛦 warning

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

Death or serious injury could result from the use of a 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 4.4 Operator's Checklist, even if the operator is not directly responsible for the maintenance of this MEWP.

1.4-2 Maintenance and Inspection Schedule

Refer to Service manual for frequent (every 3 months or 150 hours) and annual inspection details.

The actual operating environment of the MEWP may affect the maintenance schedule.

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

🔊 NOTE

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

1.4-3 Owner's Inspections

It is the responsibility of the owner to arrange daily, quarterly (or 150 hours) and annual inspections of the MEWP. A record of annual inspection is kept on a label located close to the base control console on the cowling. Refer to Section 7.3 in this manual.

Section 2 – Operator Safety

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

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.

2.1 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.

DANGER

Avoid power lines.

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

Figure 03 Minimum Safe Approach Distance



DO NOT operate the MEWP near power lines. Maintain a minimum safe approach distance (MSAD) from energized power lines.



DO NOT operate the MEWP during lightning or storms.

🚹 WARNING

Do not use the MEWP as a ground for welding.

2.2 Safety Precautions

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

A 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 \bigcirc 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. Maintain firm footing on the platform floor at all times while working thereon.

ENSURE all occupants wear personal fall protection equipment.



DO NOT raise the MEWP or operate elevated in windy or gusty conditions that exceed the limits specified in Section 7.7.



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

DO NOT elevate the MEWP if it is not on a firm, level surface.



DO NOT drive elevated near depressions or holes of any type, loading docks, debris, drop-offs and surfaces that may affect the stability of the MEWP.



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



If operation in areas with holes or drop-offs is absolutely necessary,

elevated driving shall not be allowed. Position the MEWP horizontally only with the platform fully lowered. After ensuring that all 4 wheels or outriggers (if equipped) have contact with a firm, level surface, the MEWP can be elevated. After elevation, the drive function must not be activated.



DO NOT drive elevated on a soft or uneven surface.







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 use boom to push, pull other objects or to lift the chassis.



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

STUNT driving and horseplay are prohibited.



DO NOT use with improperly inflated/damaged tires or wheels. Refer to Section 4.2-7: 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/drop bar in place.



DO NOT exceed the rated capacity of the MEWP.



DO NOT distribute load unevenly.



DO NOT use under influence of alcohol or drugs, or if operator's performance is impaired by a medical condition, the influence of prescription or over the counter drugs, or fatigue.

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

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

DO NOT operate on slippery surfaces not capable of providing adequate traction to stop, drive or steer the MEWP.

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



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



DO NOT leave MEWP unattended with key in key switch.

2.3 Fall Protection

Skyjack recommends the use of a fall restraint system to keep an occupant within the confines of the platform, and thus not expose the occupant to any fall hazard requiring a fall arrest.

A WARNING

Failure to wear personal fall protection equipment may result in death or serious injury.

All personal fall protection equipment must comply with applicable governmental regulations and must be inspected and used in accordance with the manufacturer's recommendations.

All personal fall protection equipment must be attached only to approved anchorage points within the platform of the MEWP.

A 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.

\Lambda WARNING

An operator should not use any MEWP that:

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

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

2.4 Jobsite Inspection

Ensure operating environment (i.e. operating temperature, Electromagnetic Compatibility (EMC), and hazardous location rating) is suitable to MEWP specifications (refer to Section 7.5).

Be sure to follow all local, provincial/territorial/state and national regulations related to operating the MEWP. Do not use MEWP 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.

It is the responsibility of the operator to perform a job site inspection and avoid the following hazardous situations:

- holes or drop-offs
- ditches or soft fills
- floor obstructions, bumps or debris
- overhead obstructions
- electrical cords, hoses and high voltage conductors
- hazardous locations
- inadequate surface support to withstand all load forces imposed by the MEWP
- wind and weather conditions
- the presence of unauthorized personnel
- other possible unsafe conditions
- electrical cords, hoses and high voltage conductors

Ð	Notes						

Section 3 – Familiarization

MEWP Familiarization should be given only to individuals who are QUALIFIED/COMPETENT and TRAINED to operate a MEWP.

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

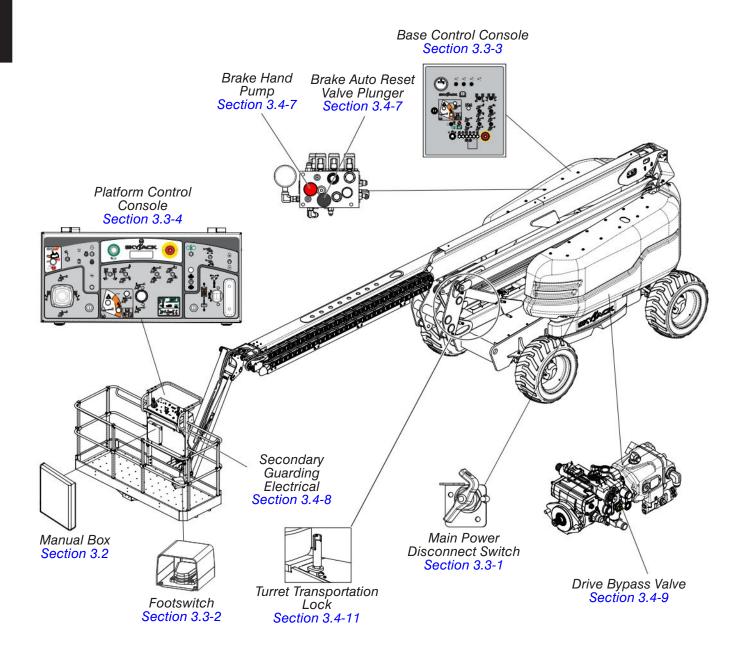
It is the responsibility of the operator to read, completely understand and follow all instructions and warnings contained in this operating manual and on the MEWP.

Read and completely understand the operating manual and all warnings and instruction labels (refer to Section 8 – Labels) on the MEWP.

Before operating this MEWP, perform the following tasks:

- Visual and daily maintenance inspections (refer to 4.2 Visual & Daily Maintenance Inspections)
- 2. Function tests (refer to 4.3 Function Tests)
- **3.** Jobsite inspection (refer to 2.4 Jobsite Inspection).

3.1 Component Identification



3.2 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.

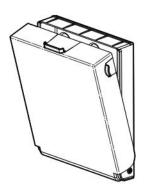


Figure 04 Manual Storage Box

3.3 Control Functions

3.3-1 Main Power Disconnect Switch

This switch is located in the engine compartment near the battery.

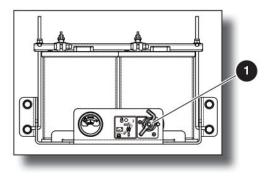


Figure 05 Main Power Disconnect Switch

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

3.3-2 Footswitch

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

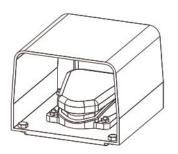


Figure 06 Footswitch



The footswitch is equipped with a 7-second antitiedown feature that deactivates footswitch when operator depresses it for 7 seconds without activating any function.

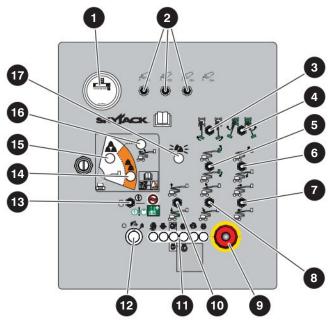


Figure 07 Base Control Console

3.3-3 Base Control Console

This control console is located in the panel mounted in the control compartment. It has the following controls:

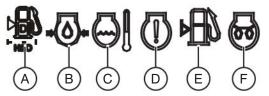
- **1** Hourmeter This gauge records accumulated operating time of engine.
- Circuit Breakers In the event of a power overload or positive circuit grounding, the circuit breaker pops out. Push breaker back in to reset.
- Platform Rotation Switch This switch controls
 - 👃 left or 🖕 right rotation of platform.

Turret Rotation Switch - This switch controls left or right rotation of turret.

9 Platform Leveling Override Switch - This switch overrides automatic leveling of platform and

controls and tilting up or tilting down of platform.

- 6 Jib Up/Down Switch This switch controls ↓ up or ↓ down movement of jib.
- Fly Boom Extend/Retract Switch This switch controls extension or retraction of fly boom.
- Main Boom Raise/Lower Switch This switch controls raising or lowering of main boom.
- Emergency Stop Button This red "mushroomhead" opushbutton disconnects power to control circuit and shuts engine off.
- Riser Raise/Lower Switch This switch controls raising or provide lowering of riser.
- Status Indicator Pilot Lights These lights indicate operational status and errors in any function in the controls/engine.



Section 3 - Familiarization

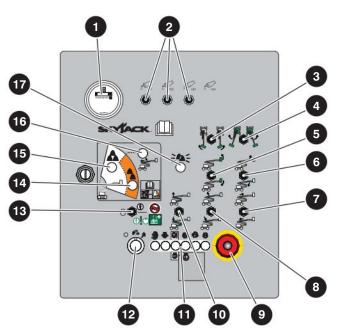


Figure 07 Base Control Console

- A. Water In Fuel Light This light indicates water separator is full. Open drain to release water. Engine damage could occur if ignored for excessive length of time.
- B. **Engine Oil Pressure** This light indicates low engine oil pressure.
- C. Engine Coolant Temperature/Level This light indicates overheating of engine coolant and low level of engine coolant.
- 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.
- Off/Base/Platform Key Switch This three-way selector switch allows operator to power to MEWP or to activate either for base or platform control console.

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. Engine speed increases when selected. With engine off, and when held in felco emergency power unit position, allows base control functions to operate using emergency power unit.

🛦 WARNING

Do not operate boom functions if platform capacity is exceeded.

- Low Capacity Zone Indicator Light Indicates MEWP is in "low" platform capacity zone. Refer to Section 7.7.
- High Capacity Zone Indicator Light Indicates MEWP is in "high" platform capacity zone. Refer to Section 7.7.
- Capacity Zone Border Light Indicates MEWP is at limits of travel for high capacity zone. Lower and capacity zone extend functions are not available..
- Overload Light This red light indicates overload status. Refer to Section 3.4-6.

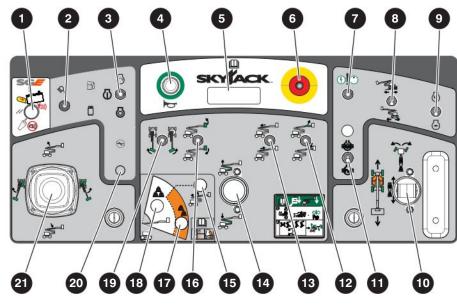


Figure 08 Platform Control Console

3.3-4 Platform Control Console

Section 3 - Familiarization

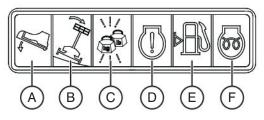
This control console is mounted at front guardrail of the platform. It has the following controls:

- Secondary Guarding Electrical (SGE) Reset Button - This button, when depressed, shuts off the audible/visual alarm from the SGE.
- Work Light Switch (If Equipped) This switch turns on work light.

Sengine Start/On/Off Switch - This switch, when held momentarily in
 start position, starts engine. Once started, the switch returns to
 on position. When in
 off position, it turns engine off.

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 7-second antitiedown feature deactivates footswitch when operator depresses it for 7 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 3.7 for instructions regarding recovery from an inclined position.
- C. **Overload Light** This red light indicates overload status. Refer to Section 3.4-6.
- 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.
- Emergency Stop Button This red "mushroomhead" opushbutton disconnects power to control circuit and shuts engine off.



Section 3 – Familiarization

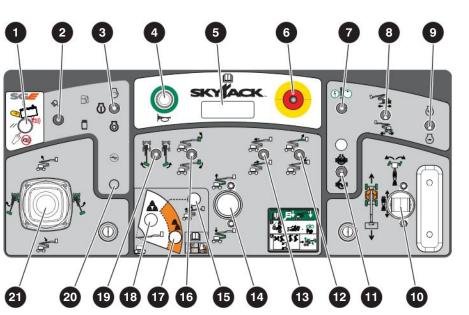


Figure 08 Platform Control Console

Emergency Power Unit - This switch enables emergency power unit when engine is off.

Torque Switch - This switch selects in low or in high torque. Select in low torque (higher speed) or in high torque (lower speed). Select in high torque when driving on a slope.

Low/High Throttle Switch - This switch allows selection between Iow and high engine throttle speeds.

Drive/Steer Controller - This single-axis lever

controls driving forward or backward. The rocker switch controls steering right. Internal springs return it to neutral when released.

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.

Jib Up/Down Switch - This switch controls up or or down movement of jib.

- B Fly Boom Extend/Retract Switch This switch controls extension or retraction of fly boom.
- Riser Raise/Lower Controller This single-axis lever controls raising or lowering of riser.
- Capacity Zone Border Light Indicates MEWP is at limits of travel for high capacity zone. Lower and capacity zone.
 Lower capacity and capacity zone.
- Platform Leveling Override Switch This switch overrides automatic leveling of platform and

controls stilting up or stilting down of platform.

- Low Capacity Zone Indicator Light Indicates MEWP is in "low" platform capacity zone. Refer to Section 7.7.
- High Capacity Zone Indicator Light Indicates MEWP is in "high" platform capacity zone. Refer to Section 7.7.
- Platform Rotation Switch This switch controls
 If in the second se

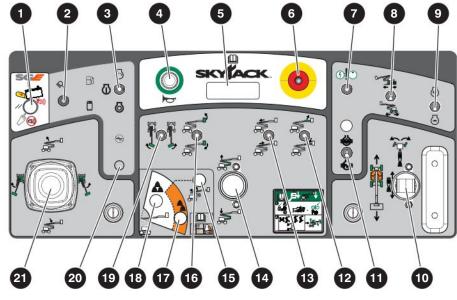


Figure 08 Platform Control Console

Generator On/Off Switch (If Equipped) - This

switch turns the hydraulic generator 😔 on or O off.



All functions are disabled while the generator switch is 💮 on.

Boom/Turret Controller - This dual-axis lever controls raising or is lowering of main boom or rotating V left right of turret.

FAMILIARIZATION

3.4 Features and Devices

Available MEWP functions depend upon a combination of machine configuration (lowered travel position/elevated travel position), chassis tilt, platform load, and boom positioning (high/low capacity).

The MEWP is in the lowered travel position if it is in ALL of the positions shown in Figure 09.

The MEWP is in the elevated travel position if it is in ANY of the positions shown in Figure 10.

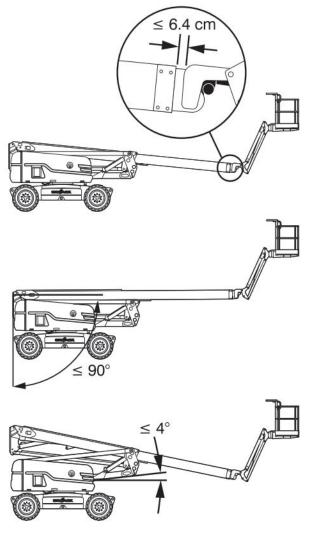


Figure 09 Lowered Travel Position

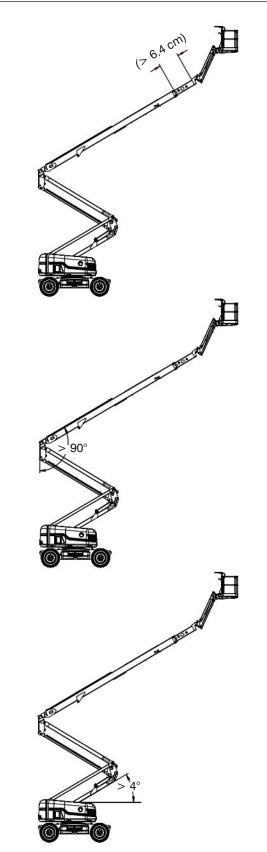


Figure 10 Elevated Travel Position (any of the boom positions shown)

3.4-1 Driving Speed

The driving speed depends upon the machine configuration (lowered travel position/elevated travel position). When the MEWP is in the elevated travel position, the maximum achievable drive speed should be significantly less than Lowered Travel Position drive speed. Refer to Section 7.4.

3.4-2 Driving Direction

The driving function operates in accordance with the general orientation of the turret's counterweight over the chassis (i.e. joystick forward means counterweight is facing forward). Therefore, the MEWP will move in the general direction of the joystick's movement.

3.4-3 Tilt Switch

The tilt switch is located within the base control console. When the MEWP is on a slope greater than a predetermined limit, an audible alarm sounds, a visual indicator illuminates, and boom movement or drive functions are disabled (refer to Section 3.4-4: Function Restrictions when Tilted).

When tilt settings are exceeded, causing the alarm to sound and the light to illuminate, the platform should be lowered and retracted immediately. Refer to Section 3.7 for instructions on how to recover from an inclined position.

🖉 NOTE

Resetting power to the controls (e.g. e-stop depressed then pulled out) when the MEWP is tilted and at the limits of the lowered travel position will cause the MEWP to be considered tilted while elevated.

3.4-4 Function Restrictions when Tilted

Mode/Condition	Restrictions
In lowered travel position, tilted, moving into elevated travel position	Boom extend, boom up, riser up disabled (on platform and base, powered by emergency pump)
Elevated travel position, tilted	Drive disabled

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3.4-5 Platform Load Sensing System

The platform capacity is determined by boom position (boom extension and boom angle). Each boom position zone (High Capacity Zone or Low Capacity Zone) has a separate capacity. Refer to platform capacity label(s) for maximum platform capacity of each zone.

The platform load sensing system indicates when the load is approaching overload status (refer to Section 3.4-6: Overload Status).

If the platform is overloaded while in elevated travel position, the load sensing system will disable functions as per Section 3.4-6: Overload Status and signal the operator with an indicator light and an audible alarm.

If the platform is overloaded while in lowered travel position, the load sensing system will signal the operator with an indicator light and an audible alarm but will not disable any functions (refer to Section 3.4-6: Overload Status).

A WARNING

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 to release the platform from the obstruction.
- Do not attempt to free a snagged platform with lower controls until personnel are removed from the platform.

🖉 NOTE

Movement into the Low Capacity Zone occurs when the boom is either lowered or extended into a position where it is raised less than 47 degrees and extended 3.1 m (refer to Figure 11 and Figure 12). There are approximately 5 1/2 cutouts visible on the fly boom when extended 3.1 m.



3.4-6 Overload Status

Mode/Condition	Indicator Light	Audible Alarm	Drive Functions	Powered Boom Functions (Platform or Base)	Emergency Power (Platform)	Emergency Power (Base)
93-99% of platform capacity	On	Off	Enabled	Enabled	Enabled	Enabled
Lowered Travel Position, ≥ 100% of platform capacity	Flashing	Pulsing	Enabled	Enabled	Enabled	Enabled
Elevated Travel Position, ≥ 100% of platform capacity	Flashing	Pulsing	Disabled	Disabled	Enabled	Enabled
Elevated Travel Position, ≥ 100% of platform capacity for Low Capacity Zone, Boom extended or lowered to Border between High and Low Capacity Zones	Flashing	Off	Disabled	Boom raise and Boom retract only	Enabled	Enabled

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Movement into Low Capacity Zone is restricted if platform capacity exceeds Low Capacity Zone platform capacity. Refer to Section 3.4-6: Overload Status.

If the platform load sensing system is in fault mode (capacity zone lights flash alternately, overload light flashes and capacity zone border light illuminates), do the following:

• Ensure platform is level and there are no obstructions contacting the platform.

If the platform load sensing system remains in fault mode, the emergency power unit may be used to lower the platform. Contact a qualified/ competent person for repairs.

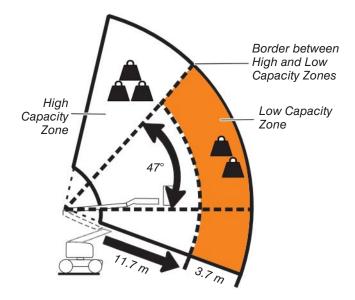


Figure 11 High and Low Capacity Zones

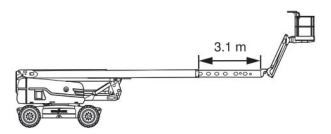


Figure 12 Fly Boom Extension into Low Capacity Zone

3.4-7 Brake System

The brake system is located in the control compartment. The brakes must be manually disengaged before winching or towing. Refer to Section 6.1-1 for procedure on how to release brakes manually. The system contains the following controls:

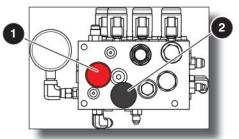


Figure 13 Brake System

Brake Hand Pump

2 Brake Auto Reset Valve Plunger

3.4-8 Secondary Guarding Electrical (SGE)

The purpose of this device is to prevent sustained involuntary operation of the lift, which may result from accidental contact with the platform controls, and to activate an alarm (audible/visual) to alert others of the event.

This device will not prevent collision or eliminate the potential for injuries resulting from a collision.

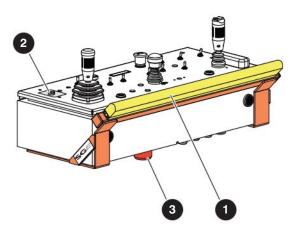


Figure 14 Secondary Guarding Electrical (SGE)

- Sensor Bar This bar is located in front of the platform control console. When pressure is applied to the sensor bar, it interrupts/halts all functions.
- Reset Button This button is located on the top left corner of the platform control console. It lights up when pressure is applied to the sensor bar for more than 1 second. When depressed, it shuts off the audible/visual alarm.
- Audible/Visual Alarm This alarm is located on the underside of the platform control console. It activates when pressure is applied to the sensor bar.

SGE Operation

- 1. When pressure is applied to the sensor bar for less than 1 second, the audible/visual alarm will activate while the bar is being pressed, interrupting all functions. The audible/visual alarm will turn off after the sensor bar is released, and functions will resume.
- When pressure is applied to the sensor bar for more than 1 second, the audible/visual alarm will activate and the engine will shut off, halting all functions. The reset button will illuminate. Emergency power functions remain active.
- **3.** After removing pressure from the bar, press the reset button to shut off the audible/visual alarm and resume all functions.



3.4-9 Drive Bypass Valve

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

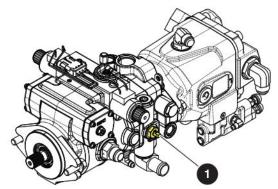


Figure 15 Drive Bypass Valve

Drive Bypass Valve with Override Stems - This valve, when loosened 90 degrees clockwise, 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 6.1 for winching and towing procedure.

3.4-10 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 terrain. Differential locks are used to prevent MEWP from getting stuck when driving on loose, muddy, or rocky terrain. Refer to Section 4.3-24 for instructions regarding testing differential lock switch.

3.4-11 Turret Transportation Lock

This locking device is located in the turret.

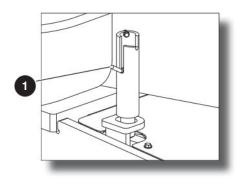


Figure 16 Turret Transportation Lock

1 Turret Transportation Lock - This locking device is used to lock turret in place during shipping only. Refer to Section 6.3-2 for procedure on how to lock the turret.

3.4-12 All Motion Alarm

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

Optional Equipment and 3.5 **Attachments**

🖉 ΝΟΤΕ

Refer to optional equipment or attachment labels for actual weight. This weight must be included when determining the total load on the platform, including personnel and other materials.

NOTE

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

3.5-1 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 the platform control console and the plug is located beside the hydraulic tank in the control compartment.

3.5-2 Work Light (If Equipped)

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

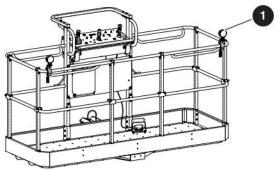


Figure 17 Work Light



Ensure base emergency stop button is pulled out and platform control console has been activated using off/base/platform key switch.



1 Work Light - This light turns on when the work light switch is activated.

WARNING

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

Flashing Amber Light (If Equipped) 3.5-3

The flashing amber light is located on top of the turret of the MEWP.

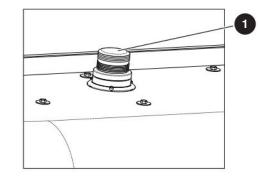


Figure 18 Flashing Amber Light

Flashing Amber Light - This light flashes when a boom function is activated. This works in conjunction with the all motion alarm.



3.6 Emergency Lowering Procedure

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

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 to release the platform from the obstruction. Refer to Section 3.4-6: Overload Status.
- Do not attempt to free a snagged platform with lower controls until personnel are removed from the platform.

At Base Control Console:

- 1. Ensure engine is off.
- 2. Pull out 😑 emergency stop button.
- 3. Select 15 base position from key switch.
- 4. Select () 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 🧶 emergency stop button.
- **3.** Select (1) on position from engine start/on/off switch.
- 4. Depress and hold footswitch.
- 5. Select **(b)** from emergency power unit switch and activate desired boom function.

3.7 Chassis Tilt Recovery

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.

A WARNING

When tilt settings are exceeded, causing the alarm to sound and the light to illuminate, the platform should be lowered and retracted immediately. Refer to Section 3.4-4: Function Restrictions when Tilted.

3.7-1 Platform Uphill

If the MEWP becomes tilted with the platform uphill (refer to Figure 19) 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.

3.7-2 Platform Downhill

If the MEWP becomes tilted with the platform downhill (refer to Figure 20) 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.

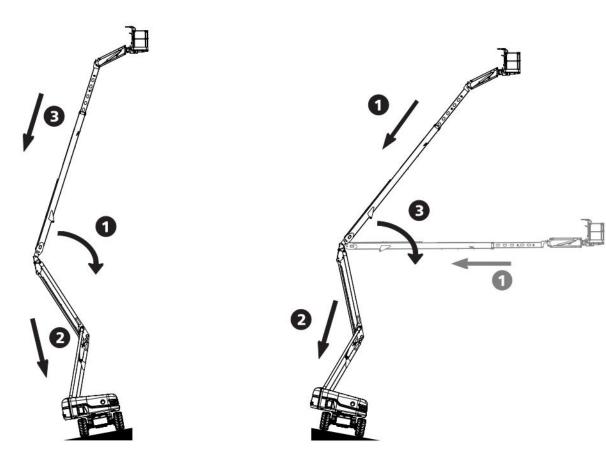


Figure 19 Platform Uphill

Figure 20 Platform Downhill



Section 4 – Pre-operation

4.1 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.

A 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 stepby-step instructions to test all MEWP functions.

The operator should make a copy of the Operator's Checklist (see Section 4.4) and fill out the visual and daily maintenance inspections and the function tests sections while performing the items outlined in Section 4.2 and Section 4.3.

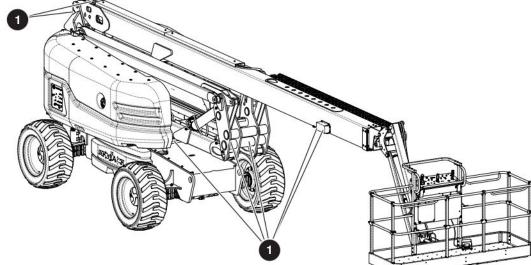
IMPORTANT

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 qualified/ competent repair personnel. After repairs are completed, the operator must perform visual and daily maintenance inspections & function tests again.

Scheduled maintenance inspections shall only be performed by a qualified/competent person.

Limit Switch Locations



4.2 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 a MEWP until all malfunctions have been corrected.

A WARNING

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

Ensure MEWP is on a firm, level surface.

🔊 ΝΟΤΕ

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

4.2-1 Labels

Refer to Section 8 – Labels in this manual and determine that all labels are in place and are legible.

4.2-2 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

4.2-3 Limit Switches

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

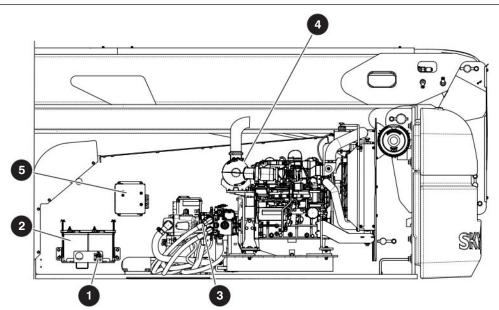
4.2-4 Hydraulic

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
- the underside of the turret
- the underside of the base
- ground area under the MEWP





4.2-5 Engine Compartment

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

1 Main Power Disconnect Switch

- Turn main power disconnect switch to off O 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.

2 Batteries

 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.



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

A WARNING

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

O Hydraulic Pumps

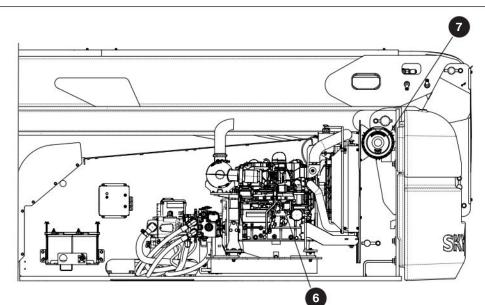
- Ensure there are no loose or missing parts and there is no visible damage.
- Ensure all bolts are properly tightened.
- Ensure all fittings and hoses are properly tightened and there is no evidence of hydraulic leakage

Muffler and Exhaust

 Ensure muffler and exhaust system are properly secured, with no evidence of damage.

Engine Control Console

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



6 Engine

Engine Pivot Tray

 Ensure there are no loose or missing parts and no visible damage to the engine pivot tray. Ensure engine pivot tray is secure.

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 Service manual for recommended oil type.

Fuel Leaks

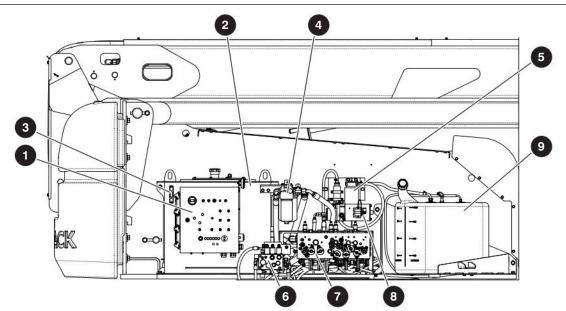
• Ensure that there are no fuel leaks.

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.

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





4.2-6 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.

2 Hydraulic Tank

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

O Hydraulic Oil Level

- 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.
- The hydraulic oil level should be between the minimum and maximum marks on the sight glass. Add oil as needed. Refer to Service manual for recommended oil type.

Hydraulic Return Filter

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

5 High Pressure Filter

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

6 Brake Manifold

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

Main Manifold

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

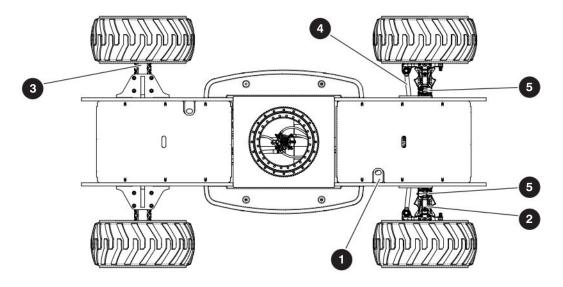
Emergency Power Unit

- 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 are no fuel leaks.

A WARNING

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.

4.2-7 Base

Turret Transportation Lock

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

Drive Axles

Ensure front drive axle 2 and rear drive axle
 are properly secured, there are no loose or missing parts, all fittings and hoses are properly tightened and there is no evidence of hydraulic leakage.

4 Tie Rod

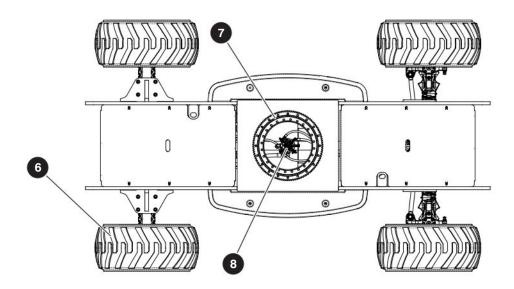
• Ensure there are no loose or missing parts, tie rod end studs are locked and there is no visible damage.

Oscillating Cylinder Assembly

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

🖉 ΝΟΤΕ

Oscillating axle is locked when MEWP is in low speed. Refer to Figure 31 - Axle Oscillation Diagram.



6 Wheel/Tire Assembly

- The MEWP is equipped with foam-filled tires. Tire and/or wheel failure could result in a MEWP tip over. Component damage may also result if problems are not discovered and repaired in a timely fashion.
- 1. Check all tire treads and sidewalls for cuts, cracks, punctures and unusual wear.
- 2. Check each wheel for damage and cracked welds.
- **3.** Check each lug nut for proper torque to ensure none are loose.

Refer to Section 7.6 for wheel/tire specifications.

A WARNING

Do not use tires other than those specified for this machine. Do not mix different types of tires. Tires other than those specified can adversely affect stability. Failure to operate with matched, approved tires in good condition can result in death or serious injury. Replace tires with the exact, Skyjack-approved types only.

7 Turret Rotation Gear

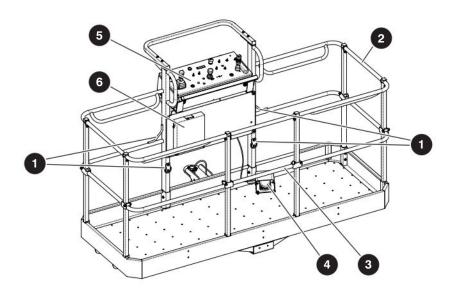
Inspect from underneath the MEWP.

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

Botary Manifold

Inspect from underneath the MEWP.

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



4.2-8 Platform Assembly

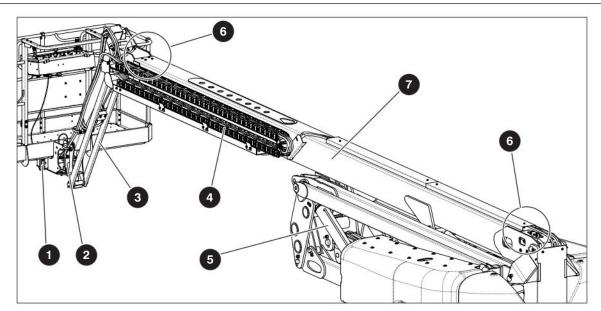
- Ensure there are no loose or missing parts and there is no visible damage.
- Ensure all fasteners are securely in place.
- Ensure fall protection anchorage(s) ① are secure and there is no visible damage.
- Ensure all railings 2 are properly positioned and secured.
- Ensure gates/drop bars 3 are in good working order.
- Ensure footswitch ④ is in good working order and has not been modified, disabled or blocked.

5 Platform Control Console

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

6 Manuals

- Ensure a copy of operating manual and other important documents are enclosed in manual storage box.
- 1. Check to be sure manual storage box is present and in good condition.
- **2.** Ensure manuals are legible and in good condition.
- **3.** Always return manuals to the manual storage box after use.



4.2-9 Boom Assembly

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 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.

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.

4 E-Chain

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

5 Cylinders

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

6 Wear Pads

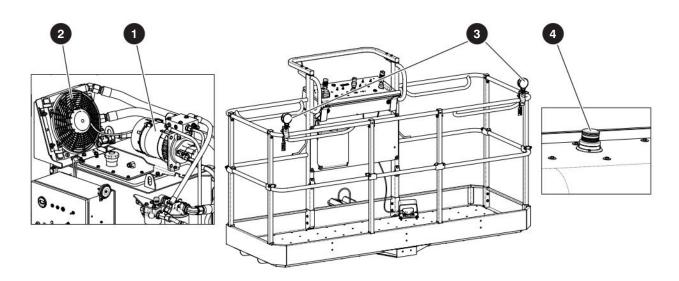
 Ensure all bolts are tight, there is no visible damage to the wear pads and that no parts are missing.

🛛 Boom

- 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.

Hoses

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



4.2-10 Optional Equipment/Attachments

Hydraulic Generator 1 /Oil Cooler 2 (If Equipped)

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

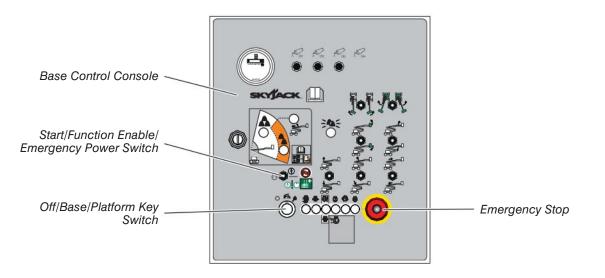
Work Light (If Equipped)

- 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.

Islashing Amber Light (If Equipped)

• Ensure lamp is properly secured with no signs of visible damage.





4.3 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.

Never use a malfunctioning MEWP. If malfunctions are discovered, MEWP must be tagged and taken out of service. Repairs to MEWP may only be made by qualified/competent repair personnel.

🔊 ΝΟΤΕ

To perform these function tests, ensure there is sufficient space to fully raise and extend boom.

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 5.1 - Start Operation.

🖉 NOTE

All motion alarm should sound while operating any boom or drive function.

4.3-1 Test Main Power Disconnect Switch

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

2. In engine compartment, turn main power disconnect switch to 1 on position.

🖉 ΝΟΤΕ

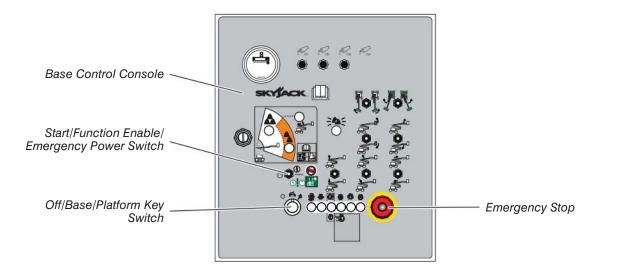
Close all cowlings before proceeding to next item.

4.3-2 Base Control Console

- On platform control console, pull out emergency stop button.
- On base control console, pull out emergency stop button.
- 3. Turn off/base/platform key switch to the base position.

4.3-3 Test Base Emergency Stop Button and Base Emergency Stop Light

- 1. Push in emergency stop button and attempt to operate any MEWP function.
 - **Result:** Engine should shut down and MEWP functions should not operate.
- 2. Pull out emergency stop button and restart engine.
 - **Result:** Emergency stop light should continuously illuminate.



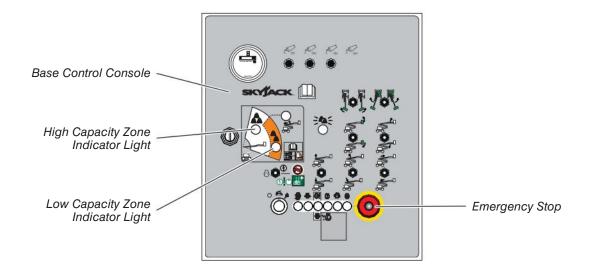
4.3-4 Test Start/Function Enable/ Emergency Power Switch and All Boom and Platform Functions

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

- 1. Ensure emergency stop button is pulled out.
- 2. Start engine.
- **3.** Do not hold ④ start/function enable/ emergency power switch in function enable position. Attempt to activate each boom and platform switch.
 - **Result:** All boom and platform functions should not operate.
- **4.** Hold ④ start/function enable/emergency power switch in function enable position and activate each boom and platform function.
 - Result: Engine speed increases from idle to intermediate. All boom and platform functions should operate as selected.

4.3-5 Test Platform Self-leveling

- 1. Lower boom to stowed position.
- 2. Adjust platform to a level position using platform leveling switch, which controls
- 3. Fully raise 着 main boom.
 - **Result:** Platform should remain level at all times and lifting speed should slow down before boom reaches full height.
- **4.** Fully lower 💭 main boom.
 - **Result:** Platform should remain level at all times.



4.3-6 Test Platform Capacity Zone Indicator Lights

🖉 ΝΟΤΕ

To perform this function test, ensure there is sufficient space to fully raise and extend boom.

🔊 ΝΟΤΕ

Ensure boom is in stowed position to begin this function test.

- **1.** Push in 😑 emergency stop button.
- **2.** Pull out **e** emergency stop button.
 - Result: Capacity zone border light should illuminate for 1 second and then turn off. High capacity zone indicator light should illuminate.
- **3.** Extend solution boom until high capacity zone indicator light turns off.
 - **Result:** Low capacity zone indicator light should illuminate.
- **4.** While boom is extended, ensure there are no visible cracks in welds or structure and there are no signs of deformation.
- 5. Fully retract and lower boom.

4.3-7 Test Emergency Power

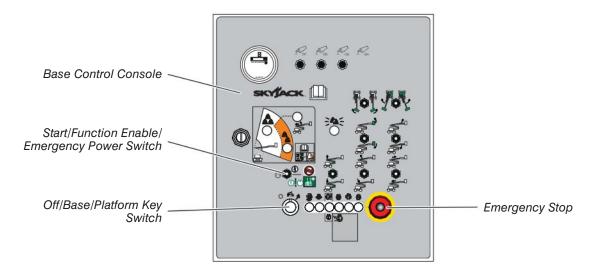
- 1. On base control console, push in emergency stop button to turn engine off.
- 2. On platform control console, push in emergency stop button.

When operating on emergency power, do not operate more than one function at a time to avoid overloading 12-Volt emergency pump motor.

🖉 NOTE

To conserve battery power, test each function through a partial cycle.

- On base control console, pull out
 emergency stop button.
- Turn off/base/platform key switch to K base position.
- 5. Select **(b)** emergency power position from start/function enable/emergency power switch and activate each boom function.
 - **Result:** All selected functions should operate.



4.3-8 Test Off/Base/Platform Switch

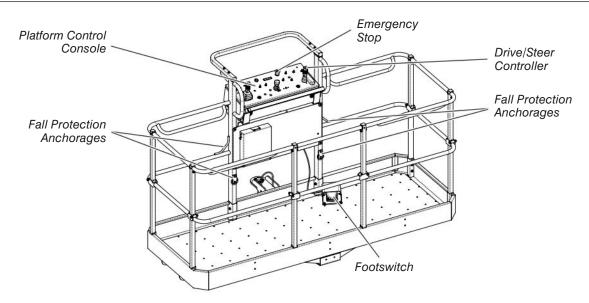
- 1. Ensure both emergency stop buttons at base and platform are pulled out.
- 2. Start engine.
- **3.** On base control console, turn off/base/platform key switch to O off position.
 - **Result:** Engine should shut down and MEWP functions should not operate.
- On base control console, turn off/base/platform key switch to platform position.

WARNING

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

- **5.** Enter platform and close gate/drop bar.
- 6. Select 👌 start position from engine start/on/off switch until engine starts.
- 7. Dismount from platform.
- 8. On base control console, attempt to activate each boom and platform switch while holding start/function enable/emergency power switch in function enable position.
 - Result: All boom and platform functions should not operate while holding start/function enable/emergency power switch in function enable position.
- **9.** Push in **e**mergency stop button to turn engine off.
- **10.** Pull out 🔴 emergency stop button.





4.3-9 Platform Control Console

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

- Ensure both emergency stop buttons at base and platform are pulled out.
- 2. On base control console, turn off/base/platform key switch to platform position.
- 3. Enter platform and close gate/drop bar.

🛦 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!

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

4.3-10 Test Platform Emergency Stop Button and Platform Emergency Stop Light

- **1.** Ensure engine is running.
- 2. Push in emergency stop button and attempt to operate any MEWP function.

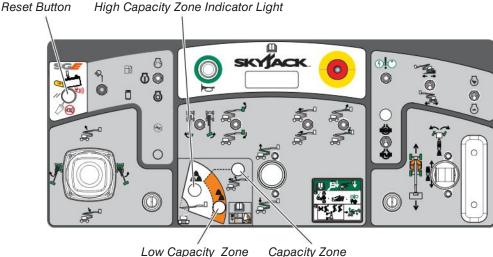
- **Result:** Engine should shut down and MEWP functions should not operate.
- **3.** Pull out **e** emergency stop button and restart engine.
 - **Result:** Emergency stop light should continuously illuminate.

4.3-11 Verify Load Sensing Module Self-Check

- 1. Push in 😑 emergency stop button.
- 2. Pull out 😑 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.

4.3-12 Test Footswitch and All Boom and Platform Functions

- Ensure emergency stop button is pulled out.
- Ensure engine start/on/off switch is in
 On position.
- 3. Do not start engine.
- Select generator on/off switch to off position (if equipped).
- 5. Depress and hold footswitch and attempt to start engine by selecting ∂ start position from engine start/on/off switch..
 - Result: Engine should not start.



Low Capacity Zone (Indicator Light

- **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.

🖉 ΝΟΤΕ

A 7-second anti-tiedown feature deactivates footswitch when operator depresses it for 7 seconds without activating any function.

- **8.** With engine running, depress and hold footswitch and test all boom and platform functions.
 - **Result:** All MEWP functions should operate. Test Boom Lowering Cutout Switch
- With engine running, depress and hold footswitch and raise main boom 0.6 m (2 ft).
- 2. Fully lower and continue to command lowering for 5 seconds.
 - Result: Main boom should fully lower, riser should not raise, and there should be an audible sound when the pump disengages.

4.3-13 Test Platform Capacity Zone Indicator Lights

Border Light

To perform this function test, ensure there is sufficient space to fully raise and extend boom.

🖉 NOTE

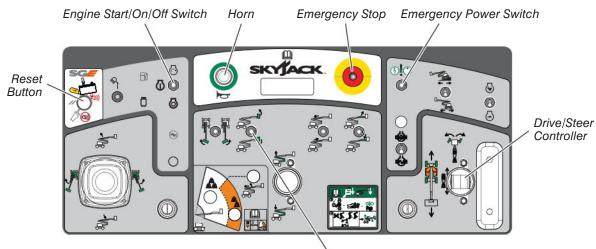
Ensure boom is in stowed position to begin this function test.

- 1. Push in 🧶 emergency stop button.
- 2. Pull out 🧶 emergency stop button.
 - **Result:** Capacity zone border light should illuminate for 1 second and then turn off. High capacity zone indicator light should illuminate.
- 3. Start engine.
- Depress and hold footswitch and extend
 boom until high capacity zone indicator light turns off.
 - **Result:** Low capacity zone indicator light should illuminate.
- **5.** Depress and hold footswitch and fully retract and lower boom.

4.3-14 Test Secondary Guarding Electrical (SGE)

- 1. Press the sensor bar for less than 1 second and then release.
 - Result: The audible/visual alarm should activate while the bar is being pressed and turn off after being released. The reset button should illuminate as soon as the sensor bar is pressed, and turn off when the bar is released.

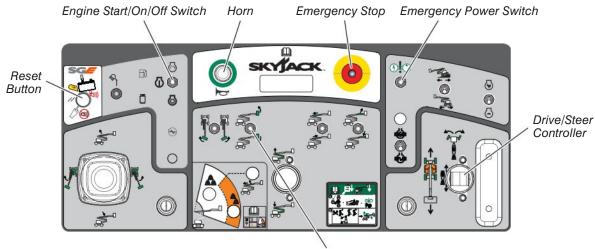




Platform Leveling Override Switch

- 2. Press the sensor bar for more than 1 second and then release.
 - Result: The audible/visual alarm should activate immediately and stay on after the bar is released. The reset button should illuminate.
- 3. Press the reset button.
 - **Result:** The audible/visual alarm and reset button light should go off.
- 4. Start the engine.
- **5.** Press the sensor bar for less than 1 second and then release.
 - Result: The audible/visual alarm should activate while the bar is being pressed and turn off after being released. The reset button should illuminate as soon as the sensor bar is pressed, and turn off when the bar is released.
- **6.** Press the sensor bar for more than 1 second and then release.
 - Result: The audible/visual alarm should activate immediately and stay on after the bar is released. The engine should shut down after 1 second. The reset button should illuminate.
- 7. Press the reset button.
 - **Result:** The audible/visual alarm and reset button light should go off.
- 8. Start the engine.
- 9. Activate any drive function in high torque 🚝 .
- **10.** Press the sensor bar for less than 1 second and then release.

- Result: The function will stop while the bar is being pressed and motion will resume when the bar is released. The audible/visual alarm should activate while the bar is being pressed and turn off after being released. The reset button should illuminate as soon as the sensor bar is pressed, and turn off when the bar is released.
- **11.** Press the sensor bar for more than 1 second and then release.
 - Result: The function will stop and the audible/ visual alarm should activate immediately and stay on after the bar is released. The engine should shut down after 1 second. The reset button should illuminate.
- 12. Start the engine.
- **13.** Activate any platform function (i.e. lift/extend/ rotate).
- **14.** Press the sensor bar for less than 1 second and then release.
 - Result: The function will stop while the bar is being pressed and motion will resume when the bar is released. The audible/visual alarm should activate while the bar is being pressed and turn off after being released. The reset button should illuminate as soon as the sensor bar is pressed and turn off when the bar is released.



Platform Leveling Override Switch

- **15.** Press the sensor bar for more than 1 second and then release.
 - Result: The function will stop and the audible/ visual alarm should activate immediately and stay on after the bar is released. The engine should shut down after 1 second. The reset button should illuminate.
- 16. While the audible/visual alarm is sounding, verify that the LED strobe light is also active.Test Engine Start/On/Off Switch
- **1.** Ensure engine is running.
- 2. Select of fposition from engine start/on/off switch.
 - **Result:** Engine should shut down and platform control console is disabled.
- **3.** Select **(**) on position from engine start/on/off switch.
 - **Result:** Platform control console is enabled.
- **4.** Start engine by selecting Start position from engine start/on/off switch.

4.3-15 Test Emergency Power

A CAUTION

When operating on emergency power, do not operate more than one function at a time to avoid overloading 12-Volt emergency pump motor.



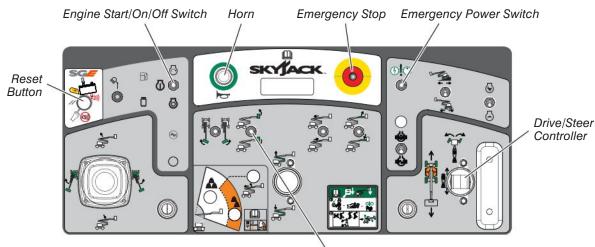
To conserve battery power, test each function through a partial cycle.

- On platform control console, push in emergency stop button to turn engine off.
- Pull out
 emergency stop button.
- Select on position from engine start/on/off switch.
- 4. Depress and hold footswitch.
- 5. Select () from emergency power unit switch and activate each function control handle or switch.
 - **Result:** All boom functions should operate, except drive/steer functions.

4.3-16 Test Manual Platform Leveling

- 1. Start engine.
- 2. Depress and hold footswitch.
- On platform leveling override switch, select s
 in position to tilt platform up or down
 position to tilt platform down.
 - **Result:** Platform should tilt up or down.





Platform Leveling Override Switch

4.3-17 Test Steering

- 1. Pull out 😑 emergency stop button.
- 2. Start engine by selecting 🔗 start position from engine start/on/off switch.
- 3. Depress and hold footswitch.
- Press rocker switch on top of drive/steer controller to ³□^d left and ^d□^d right.
 - **Result:** Steer wheels should turn left and right.
- **5.** Return wheels to parallel position before proceeding.

4.3-18 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 $\stackrel{d}{\downarrow}$ 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.

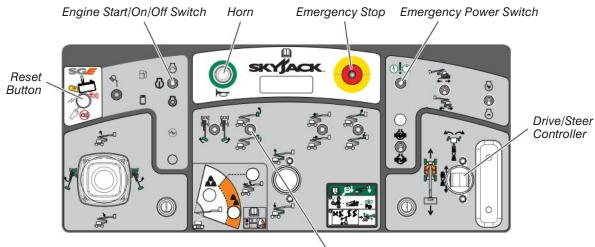
4.3-19 Test Brakes

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

- 1. Start 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 $\frac{1}{4}$ forward then $\frac{1}{4}$ reverse at full speed.

- 5. 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.-



Platform Leveling Override Switch

4.3-20 Test Driving Speed

- 1. Depress and hold footswitch.
- 2. Raise main boom approximately 4 m (14 ft) and then slowly move drive/steer controller to full drive position.
 - **Result:** The maximum achievable drive speed should be significantly less than Lowered Travel Position drive speed.
- 3. Lower boom to stowed position.
- 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 Lowered Travel Position drive speed.
- 5. Fully retract fly boom.

4.3-21 Test Horn

- 1. Push 🕞 horn pushbutton.
 - Result: Horn should sound.

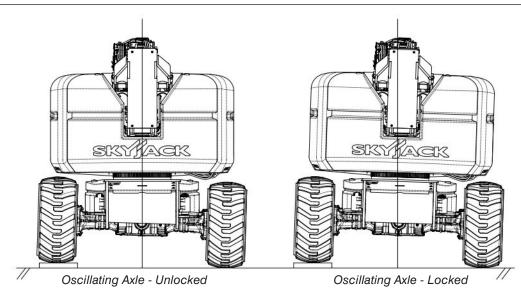
4.3-22 Test Differential Lock Switch

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

- 1. 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 5 for operation.





4.3-23 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 surface.
 - 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.
- 3. Retract Fly boom while in tilt position.
 - **Result:** The steer axles should unlock and the MEWP chassis should level itself to ground.

Operator's Checklist 4.4



Serial Number:	
Model:	
Hourmeter Reading:	Operator's Name (Printed):
Date:	
Time:	Operator's Signature:

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

- Ρ - PASS
- F - FAIL
- R
- REPAIRED NA - NOT APPLICABLE

	N/A	Р	F	R		N/A	Ρ	F	R
Visual and Daily Maintenance Inspections					Rotary Actuator				
Labels					Jib				
Electrical					E-Chain				
Limit Switches					Cylinders				
Hydraulic					Wear Pads				
Engine Compartment					Boom				
Main Power Disconnect Switch					Hoses				<u> </u>
Batteries					Optional Equipment/Attachments				
Hydraulic Pumps					Hydraulic Generator/Oil Cooler (If Equipped)				
Muffler and Exhaust					Work Light (If Equipped)				-
Engine Control Console					Flashing Amber Light (If Equipped)				
Engine					Function Tests				
Engine Pivot Tray					Test Main Power Disconnect Switch				
Engine Oil Level					Base Control Console				\vdash
Fuel Leaks					Test Base Emergency Stop Button and Base				\vdash
Engine Air Filter					Emergency Stop Light				
Control Compartment					Test Start/Function Enable/Emergency Power Switch &				
Base Control Console					All Boom Functions				
Hydraulic Tank					Test Platform Self-leveling				
Hydraulic Oil Level					Test Platform Capacity Zone Indicator Lights				
Hydraulic Return Filter					Test Emergency Power				
High Pressure Filter					Test Off/Base/Platform Switch				
Brake Manifold					Platform Control Console				
Main Manifold					Test Platform Emergency Stop Button and Platform				
Emergency Power Unit					Emergency Stop Light				
Fuel Tank					Verify Load Sensing Module Self-Check				
Fuel Leaks					Test Footswitch and All Boom and Platform Functions				
Base					Test Boom Lowering Cutout Switch				
Turret Transportation Lock					Test Platform Capacity Zone Indicator Lights				
Drive Axles					Test Secondary Guarding Electrical (SGE)				
Tie Rod					Test Engine Start/On/Off Switch				
Oscillating Cylinder Assembly					Test Emergency Power				
Wheel/Tire Assembly		1			Test Manual Platform Leveling				
Turret Rotation Gear					Test Steering				
Rotary Manifold		1			Test Driving Function				
Platform Assembly					Test Brakes				
Platform Control Console		i			Test Driving Speed				
Manuals					Test Horn				
Boom Assembly					Test Differential Lock Switch				\vdash
Load Cell					Test Oscillating Axles				1

Ø **NOTE:** Make a copy of this page or visit the Skyjack website at www.skyjack.com for a printable copy.

Section 5 – Operation

This section provides the necessary information needed to operate the MEWP. Carefully read and completely understand the operating manual and all warnings and instruction labels (refer to Section 8 – Labels) on the MEWP.

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

Before operating this MEWP, perform the following steps:

- Visual and daily maintenance inspections (refer to 4.2 Visual & Daily Maintenance Inspections)
- 2. Function tests (refer to 4.3 Function Tests)
- **3.** Jobsite inspection (refer to 2.4 Jobsite Inspection).
- 4. If, as a result of the risk assessment, the need for rescue planning is identified, a system of communication shall be established between people working on the platform and nominated support personnel trained in the use of ground controls for platform retrieval.

An operator should not use any MEWP that:

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

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

DO NOT operate MEWP under engine power in an enclosed space. Use only in an open or wellventilated area.

5.1 Start Operation

5.1-1 To Activate Base Control Console

A WARNING

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

- 1. Enter platform and close gate/drop bar.
- On platform control console, pull out emergency stop button.
- 3. Dismount from platform.
- 4. In engine compartment, turn main power disconnect switch to 1 on position.
- 5. On base control console, turn off/base/platform key switch to i€ base position.
- 6. Pull out 🧶 emergency stop button.
- Select 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, contact qualified/ competent repair personnel.

5.1-2 To Rotate Platform Using Base Control Console

- 1. Activate function enable ④ by selecting and holding start/function enable/emergency power switch to function enable position.
- 2. Push platform rotation switch to either 👃 left or
 - right position. Release switch to stop.

5.1-3 To Rotate Turret Using Base Control Console

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

1. Activate function enable ④ by selecting and holding start/function enable/emergency power switch to function enable position.

 Push turret rotation switch to either clockwise or counterclockwise position. Release switch to stop.

🖉 ΝΟΤΕ

Turret can be rotated continuously 360 degrees.

5.1-4 To Move Jib Up and Down Using Base Control Console

- **1.** Activate function enable (f) by selecting and holding start/function enable/emergency power switch to function enable position.
- Push jib up/down switch to either [▲] up or
 down position. Release switch to stop.

5.1-5 To Move Riser Up and Down Using Base Control Console

- 1. Activate and hold function enable switch ④ by pushing it to the right.
- 2. Push riser up/down switch to either up or down position. Release switch to stop.

5.1-6 To Raise or Lower Main Boom Using Base Control Console

🕅 ΝΟΤΕ

Maximum platform capacity varies with boom position. Indicator lights on the base and platform control consoles indicate whether platform is in the "high" or "low" capacity zone.

- 1. Activate function enable ④ by selecting and holding start/function enable/emergency power switch to function enable position.
- Push main boom raise/lower switch to either
 raise or lower position. Release switch to stop.

5.1-7 To Extend or Retract Fly Boom Using Base Control Console

🖉 ΝΟΤΕ

Maximum platform capacity varies with boom position. Indicator lights on the base and platform control consoles indicate whether platform is in the "high" or "low" capacity zone.

- 1. Activate function enable (1) by selecting and holding start/function enable/emergency power switch to function enable position.
- 2. Push fly boom extend/retract switch to either extend or retract position. Release switch to stop.

5.1-8 To Level Platform Using Base Control Console

- **1.** Activate function enable (f) by selecting and holding start/function enable/emergency power switch to function enable position.
- 2. Push platform leveling override switch to either

witch to stop.

5.1-9 To Operate Using Emergency Power Switch at Base Control Console

This is a momentary-type switch. This switch allows all functions except the drive functions to operate in the event of engine malfunction. Refer to Section 3.6 for the emergency lowering procedure. To Activate Platform Control Console

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

A WARNING

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

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/drop bar.
- Attach body harness lanyards of each occupant to fall protection anchorage points. Rated for one (1) person per anchorage.
- On platform control console, pull out emergency stop button.
- 7. Select 🖑 start position from engine start/on/off switch until engine starts.

🖉 ΝΟΤΕ

Maximum platform capacity varies with boom position. Indicator lights on the base and platform control consoles indicate whether platform is in the "high" or "low" capacity zone.

A WARNING

DO NOT over crank the starter. If engine fails to start after multiple attempts, contact qualified/ competent repair personnel.

🖉 NOTE

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

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

- 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.

5.1-10 To Drive Forward or Reverse Using Platform Control Console

🖉 NOTE

The driving function operates in accordance with the general orientation of the turret's counterweight over the chassis (i.e. joystick forward means counterweight is facing forward). Therefore, the MEWP will move in the general direction of the joystick's movement.

- 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.

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.

When driving on a slope:

- Torque Switch MUST be in high torque mode.
- DO NOT exceed the rated gradeability listed in Section 7.4.
- Ensure fuel level is above half to avoid a possible stall condition.

5.1-11 To Steer Using Platform Control Console

- 1. Depress and hold footswitch.
- Press rocker on top of drive/steer controller in this direction [™]□ to steer left or □ to steer right.

🔊 NOTE

Driving and steering may be active at the same time.

5.1-12 To Move Jib Up and Down Using Platform Control Console

- 1. Depress and hold footswitch.

5.1-13 To Move Riser Up and Down Using Platform Control Console

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

5.1-14 To Extend or Retract Fly Boom Using Platform Control Console

🖉 ΝΟΤΕ

Maximum platform capacity varies with boom position. Indicator lights on the base and platform control consoles indicate whether platform is in the "high" or "low" capacity zone.

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

5.1-15 To Level Platform Using Platform Control Console

- 1. Depress and hold footswitch.
- 2. On platform leveling override switch, move switch to upward position to tilt platform up or move switch to downward position to tilt platform down. Release switch to stop.

5.1-16 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.

5.1-17 To Raise or Lower Main Boom Using Platform Control Console

🖉 ΝΟΤΕ

Maximum platform capacity varies with boom position. Indicator lights on the base and platform control consoles indicate whether platform is in the "high" or "low" capacity zone.

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

5.1-18 To Sound Horn

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

5.1-19 To Rotate Turret Using Platform Control Console

A WARNING

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

rotate counterclockwise.

3. Release controller handle to stop.

Turret can be rotated continuously 360 degrees.

5.1-20 To Operate Using Emergency Power Switch at Platform Control Console

This is a momentary-type switch. This switch allows all functions except drive functions to operate in the event of engine malfunction. Refer to Section 3.6 for the emergency lowering procedure.

5.1-21 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.

5.1-22 To Disengage Differential Lock Switch

- 1. Ensure path of intended motion is clear.
- 2. Depress and hold footswitch.
- **3.** Pull differential lock switch backward 4 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).

5.1-23 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 \bigcirc off position. Remove key.
- Turn main power disconnect switch to O off position.

5.1-24 Hydraulic Generator (If Equipped)

To start hydraulic generator:

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

To restore normal operation:

1. On platform control console, turn generator on/ off switch to \bigcirc off position.

🖉 ΝΟΤΕ

An engine shut down will turn the generator off. All functions are disabled while the generator switch is $\textcircled{}{}$ on.

Notes	5			

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Section 6 – Additional Procedures

6.1 Winching and Towing Procedures

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

Ensure boom is in stowed position before winching or towing. Sudden motion could cause MEWP to become unstable. Death or serious injury could result.

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).

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

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.

- 1. 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 (refer to Section 6.1-1).

- **3.** Remove wheel chocks or blocks, and then winch or tow MEWP to desired location.
- 4. Position MEWP on a firm and level surface.
- 5. Chock or block wheels to prevent MEWP from rolling.
- Locate the bypass valve on the inboard side of the drive pump. Re-engage the drive pump by loosening the valve stem (item 1 - marked with yellow paint) 90 degrees counterclockwise.

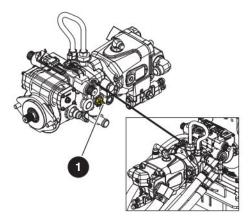


Figure 21 Drive Bypass Valve

7. Apply brakes by pulling out black brake auto reset valve.

🖉 ΝΟΤΕ

Brakes automatically apply when platform controls are engaged.

Brakes must be applied immediately after reaching desired location.

6.1-1 To Release Brakes Manually

Brakes must be manually disengaged for winching or towing.

A WARNING

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

- 1. Ensure MEWP is on level ground. Chock or block wheels to keep MEWP from rolling.
- 2. Turn main power disconnect switch to \bigcirc off position.

Do not use hydraulic power with brake disengaged.

 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) 90 degrees clockwise.

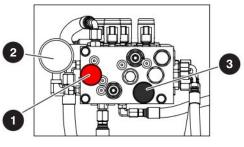


Figure 23 Brake Manifold

5. Actuate red hand pump (item 1) slowly by moving knob in and out until pressure gauge (item 2) (if equipped) registers 300 psi/21 bar. DO NOT exceed 350 psi/24 bar. Brake is now released. If MEWP is not equipped with a pressure gauge, refer to the Service manual for instructions on how to install the pressure gauge.

A WARNING

Brakes must be applied immediately after reaching desired location. Refer to Section 6.1 on how to reengage brakes.

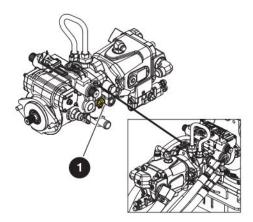


Figure 22 Drive Bypass Valve

Do not release brakes before disengaging drive motor!

4. Push in black brake valve plunger (item 3).



6.2 Refueling Procedure

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

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.
- Never try to start a MEWP if you smell gasoline.
- Gasoline engine models: Use only unleaded gasoline with an octane rating 87 or higher.
- Diesel engine models: Use ultra low sulfur fuel only.

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

When operating on a slope, ensure fuel level is above half to avoid a possible stall condition.

IMPORTANT

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

6.2-1 Refuelling (Gasoline or Diesel)

IMPORTANT

Use unleaded gasoline or ultra low sulfur diesel as indicated on fuel tank.

- 1. 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. Secure 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.

6.3 Loading/Unloading

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

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

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

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

6.3-1 Loading and Tie-down

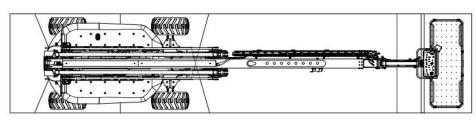
- 1. Lock turret using turret transportation lock (refer to Section 6.3-2).
- **2.** Turn key switch to \bigcirc off position and remove key before transporting.
- **3.** Turn main power disconnect switch to \bigcirc off position.
- 4. Chock MEWP wheels (if necessary).
- 5. Remove all loose items.

- **6.** Anchor down MEWP to transport surface using tie-down points (refer to Figure 24).
- 7. 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.
- 8. Place block underneath platform rotator and gently lower rotator onto block and secure in place. Strap must be secured underneath hoses and cables to avoid damage to MEWP (refer to Figure 25). Do not use excessive downward force when securing platform.

Inspect MEWP for loose or unsecured items.

Ø NOTE

For loading and unloading using a winch line, refer to Section 6.1.



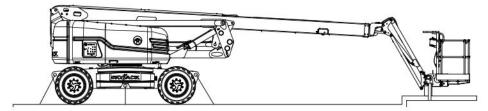


Figure 24 Tie-down Points

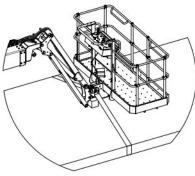


Figure 25 Platform Tie-down



6.3-2 Locking the Turret

- Ensure that turret is positioned so that turret transportation lock tube (item 2 – Figure 26) is aligned into one of two turret locking points on the chassis.
- Lift turret lock retaining pin (item 1 Figure 26) and rotate 90 degrees. Lower turret lock retaining pin into locked position.

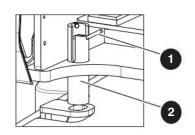


Figure 26 Turret Transportation Lock

6.3-3 Lifting

1. Rotate the boom and position the MEWP as shown in Figure 29.

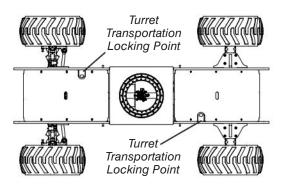


Figure 27 Turret Transportation Locking Points

- 2. Turn main power disconnect switch to \bigcirc off position.
- **3.** Clear platform of all personnel, tools and materials.

When lifting the MEWP, lifting devices must be attached to designated lifting points only (refer to Figure 28).

Use chains with load capacity sufficient to withstand MEWP weight. Refer to the serial plate of the MEWP for specific weight.

 Properly adjust rigging to ensure MEWP remains level during lifting. See Center of gravity location (Figure 29).

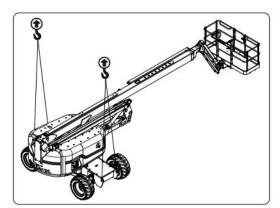


Figure 28 Lifting Points

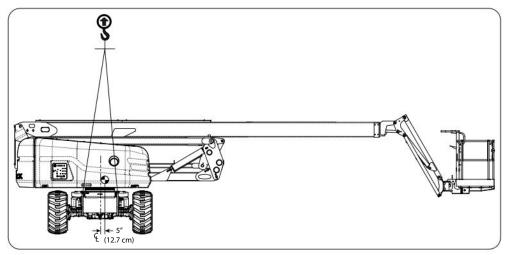
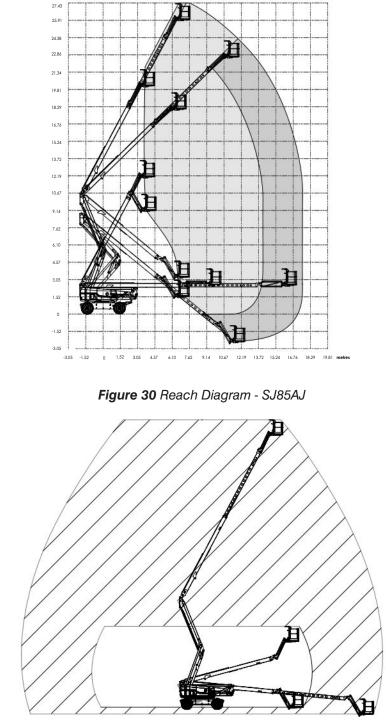


Figure 29 Center of Gravity

?	Notes

Section 7 – Technical Diagrams & Specifications

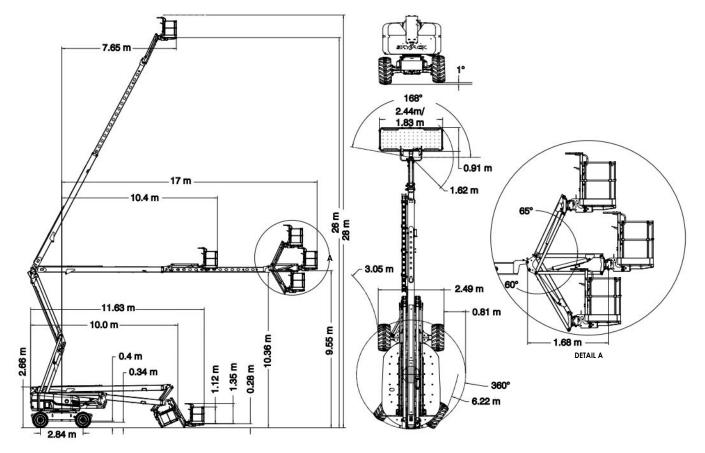
7.1 Technical Diagrams





Axle oscillation free (lowered travel position) - drive speed 4.83 km/h max. Axle oscillation locked (elevated travel position) - drive speed 0.8 km/h max.

Figure 31 Axle Oscillation - SJ85AJ



Technical Diagrams Continued

Figure 32 Dimensions - SJ85AJ

7.2 Standard and Optional Features

MODEL	SJ 85AJ
STANDARD EQUIPMENT	
12 Volt DC emergency power	✓
1.68 m jib	✓
0.91 m x 2.44 m platform	✓
Base controls	√
Continuous drive and steer directional sensing	√
Diesel engine	✓
Engine anti-restart protection	√
Foam-filled non-marking tires	√
Four-wheel drive	√
Glow plug heaters	✓
Load sensing system	✓
Manual brake release	√
Operator horn	√
All motion alarm	✓
Oscillating axle (steer)	✓
Platform controls	✓
Tri-entry drop bar	√
Spring-applied hydraulically released brake	√
Variable speed drive and function controls	1
Operator-engaged differential lock	✓
Dual capacity rating	√
SGE	√
OPTIONAL EQUIPMENT	
7500W hydraulic generator	✓
Receptacle outlet cable on platform	√
Air line to platform	√
0.91 m x 1.83 m platform	√
Side entry spring hinged gate	√
Rear entry spring hinged gate	√
Flashing amber light	√
Oil cooler (included with generators)	√
Bio oil	√
Platform work light	√
Foam-filled tires	✓
Pipe rack	✓
Hostile environment package	√
Control box cover	4
External platform top rail	✓
SGM	✓
Tool caddy	√
Diesel scrubber (level 1)	✓
Mesh assembly	✓
	1247AA-AS

1247AA-AS



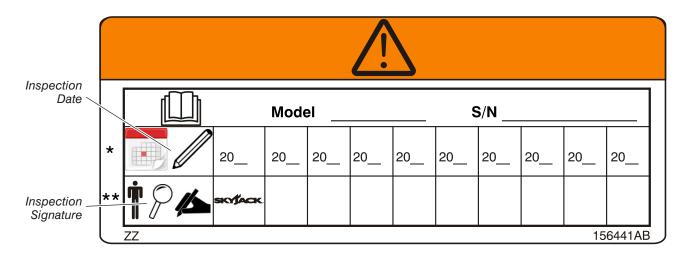


Figure 33 This decal is located on the control compartment cowling. It must be completed after an annual inspection has been completed. Do not use the MEWP if an inspection has not been recorded in the last 12 months.

7.4 Specifications and Features-A

	МС	DDEL	SJ 85AJ	
orm e	Total pla	tform length (outside)	1.83 m / 2.44 m	
Platform Size	Total pla	tform depth (outside)	0.91 m	
		Working	27.8 m	
jht	Platform elevated		26 m	
Height	Drive		driveable at all heights	
	Stowed		2.66 m	
Length	Ove	rall with platform	11.63 m	
Width	0	utside std. tires	3.00 m	
Weight	Weight	(with foam-filled tires)	16,465 kg	
	Platfor	n rotation	168 degrees	
	Horizo	ntal reach	17 m	
	Whe	elbase	2.84 m	
	Turret	rotation	360 degrees continuous	
	Turret	tailswing	0.81 m	
G	iradeability (to	rque equivalent to)	45%	
	Ground clear	ance under axle	0.34 m	
Turning Radius	Inside	4WD	3.05 m	
Tur Ra	Outside		6.22 m	
	Syster	n voltage	12 V DC	
Battery		Туре	Lead Acid	
Bat	Cold	cranking amperes	800 A	
	Main boom up		55 seconds (approx.)	
	Main boom down		52 seconds (approx.)	
mes	Fly boom extend		60 seconds (approx.)	
iT gr	Fly boom retract		60 seconds (approx.)	
Operating Times	Jib up		20 seconds (approx.)	
Opé	Jib down		17 seconds (approx.)	
	Turret rota	ate - 360° (fully stowed)	130 seconds (approx.)	
	Plat	form rotate - 168°	10 seconds (approx.)	
Driving Speeds	Drive Spe	ed (maximum-stowed)	4.83 km/h	
Driv Spe	Drive Spe	ed (maximum-elevated)	0.80 km/h 1248AB-AS	

1248AB-AS

7.5 Specifications and Features-B

MODEL	SJ 85AJ
Electromagnetic Compatibility (EMC)	Meets EN13309:2010 requirements
Hazardous Location Rating	MEWP not rated for hazardous locations
Sound Pressure Level (ISO 3744)	80dBA
Guaranteed Sound Power Level (ISO 4871)	112dBA
Whole-body Vibration on Platform	0.4 m/s ²
Operating Tempera	tures
Standard	-20°C to +40°C
	104044 40

1249AA-AS

7.6 Tire/Wheel Specifications

	SJ 85AJ
Tire Size	Outrigger R4 18-625
	0.48 m x 1.05 m
Туре	Foam-filled
Tire Ply Rating	16
Wheel Nuts Torque	373 Nm

1250AA-AS

7.7 Maximum Platform Capacities

	SJ 85AJ
Total Capacity (High)	340 kg
Total Capacity (Figh)	3 Persons
Total Capacity (Low)	227 kg
Total Capacity (Low)	2 Persons
Maximum Wind	12.5 m/s
Maximum Side Force	400 N
Tilt Cutout Setting	5 degrees x 5 degrees
	1251AA-AS

7.8 Floor Loading Pressure

MODEL	Gross Aerial	Total Aerial Platform Load			
	Platform Weight	Wheel	LCP	OUP	
	kg	kg	kPa	kPa	
SJ 85AJ	16,805	7,500	1,179	17.0	
				1252AA-AS	

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.

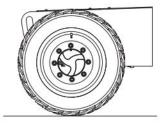
7.8-1 Locally Concentrated Pressure (LCP)

Foot Print Area identified by test.

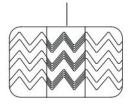
7.8-2 Overall Uniform Pressure (OUP)

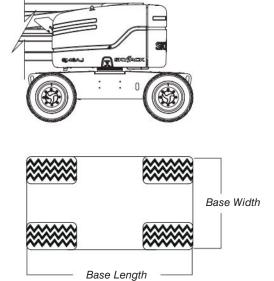
Base Area = Length x Width

Base Area



Foot Print Area





A WARNING

Do not use tires other than those specified for this machine. Do not mix different types of tires. Tires other than those specified can adversely affect stability. Failure to operate with matched, approved tires in good condition can result in death or serious injury. Replace tires with the exact, Skyjack-approved types only.

SJ85AJ

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Section 8 – Labels

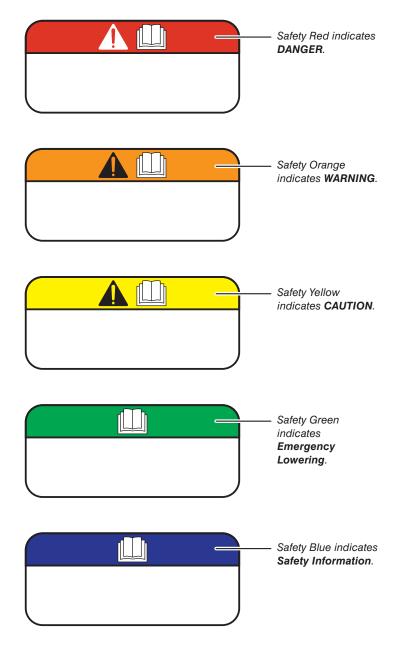
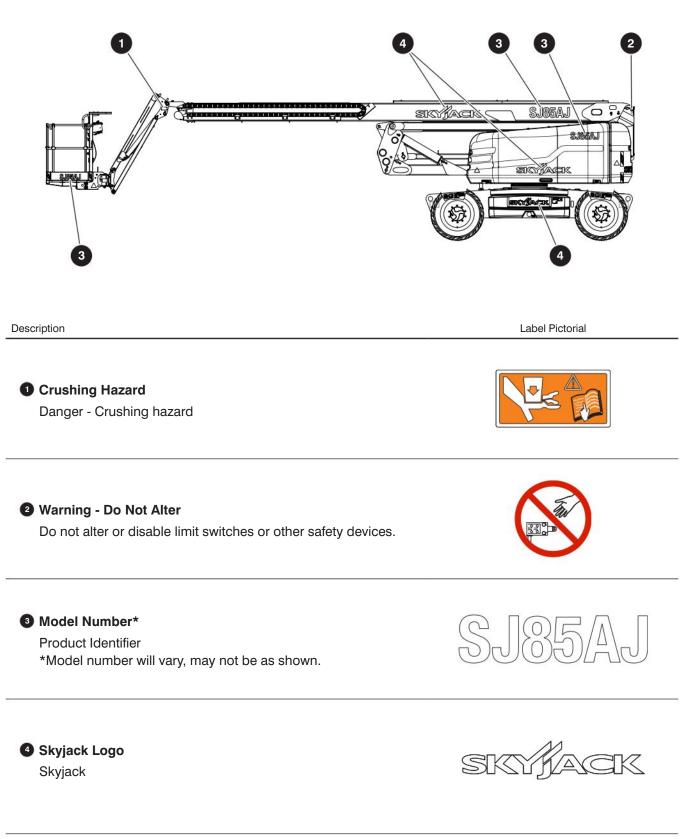


Figure 34 Label legend

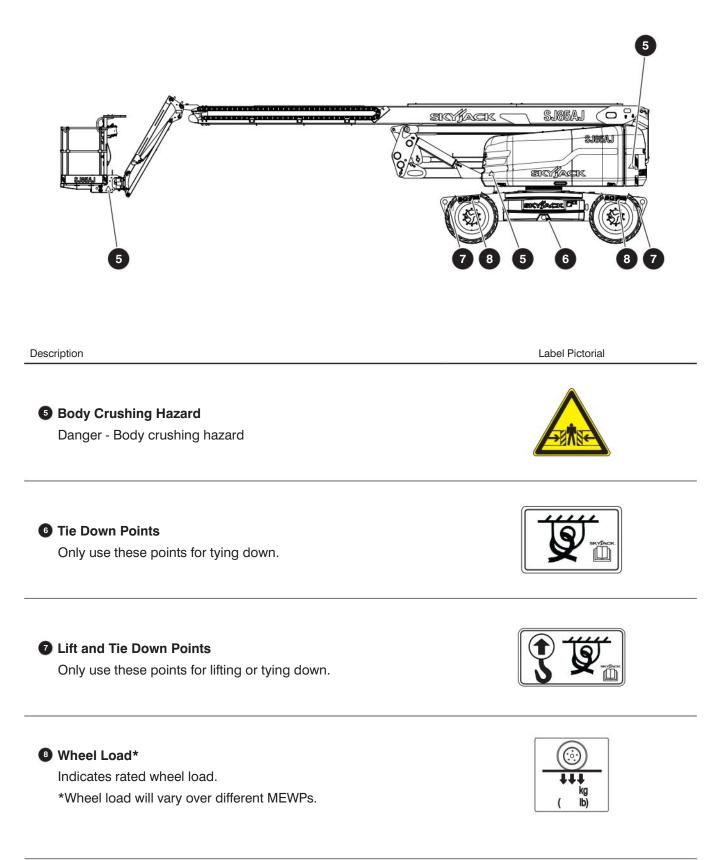
8.1 SJ85AJ

Engine Side



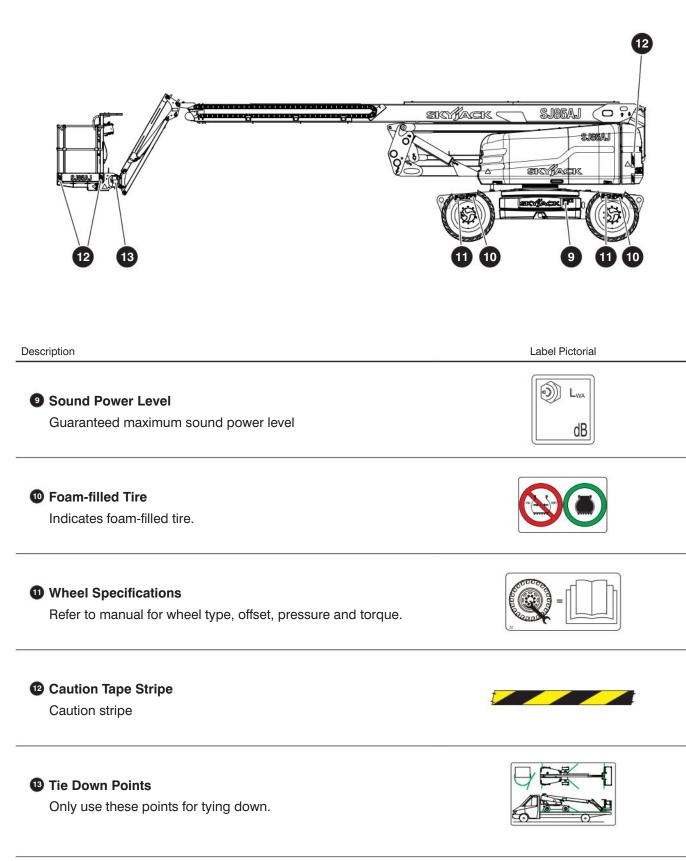


Engine Side (Continued)



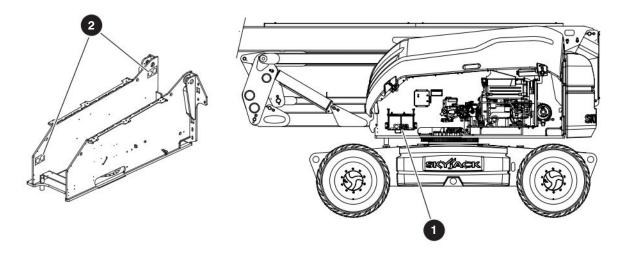
81

Engine Side (Continued)





Engine Compartment



Description

1 Main Power Disconnect Main power disconnect lever

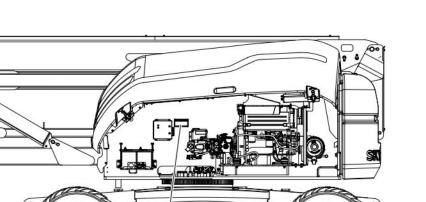


Do not enter the space beneath the work platform or extending structure during maintenance unless a means of structure support is in place. Refer to Service manual for instructions regarding machine power isolation and structure support during maintenance.



Label Pictorial





SKYKACK

Description

Label Pictorial

3 Winching & Towing Procedure

Refer to Operating manual.

- 1. Block or chock wheels to prevent MEWP from rolling.
- 2. Turn main power disconnect switch to off position.
- **3.** At engine side, locate bypass valve (marked with yellow color) on inboard side of drive pump.
- Rotate bypass valve flat using pliers or 1/4" (7mm) wrench by 90 degrees (clockwise).
- 5. At hydraulic tank side, locate brake valve and pump.
- 6. Push in black knob.
- 7. Pump by slowly pushing red knob in and out until 300 psi/ 21 bar shows on the gauge (if equipped). Brake is now released. Refer to Section 6.1 Winching & Towing Procedure.
- 8. A) Remove blocks from wheels.B) Winch/tow to desired location.
- 9. Block or chock wheels to prevent MEWP from rolling.
- **10.** At hydraulic tank side, reset brake by pulling out black knob.
- **11.** At engine side, close bypass valve by rotating 90 degrees (counterclockwise) to normal condition (flat is parallel to shaft axis).

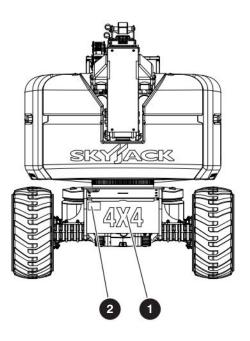


Before operation, ensure all blocks are removed from wheels.





Front Side



Description

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

Label Pictorial

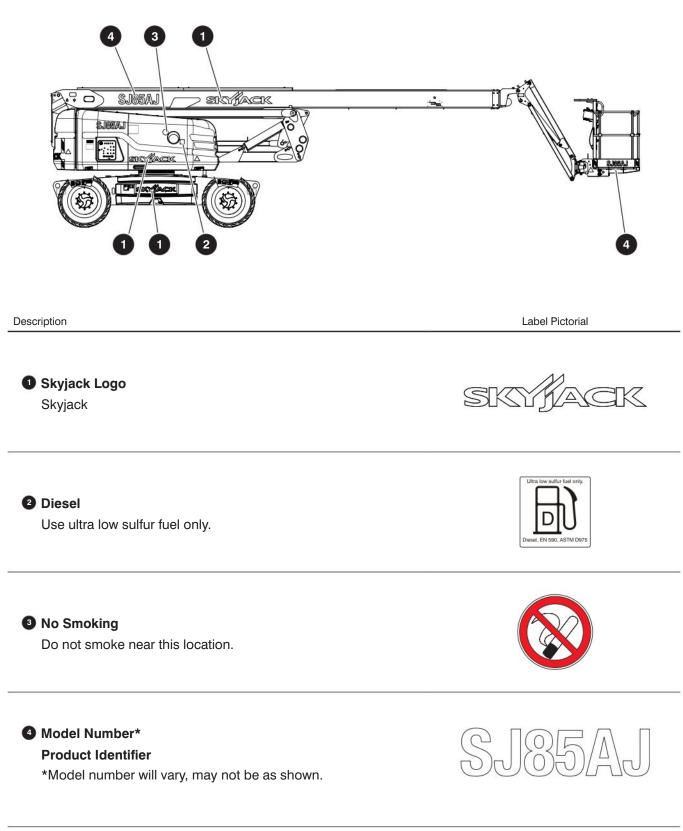


2 Serial Plate*	
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Product identification and specifications *Serial plate will vary, may not be as shown.

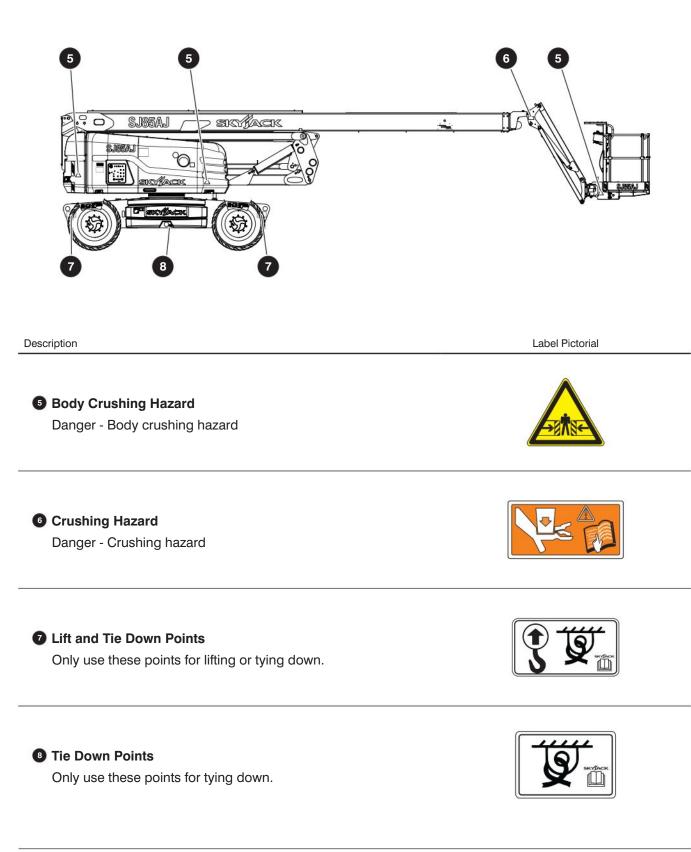
SJ85AJ			Made in Canada		
High capacity zone kg = p	ersons + eq		AU		Voltage
Low capacity zone	and maximum nu	mber of persons	Max, wi	nd speed Max.	manual forc
kg = p	persons + eq	uipment		m/s	N
Machine weight	Drive height P	latform height S	stem pressure L	It pressure M	ax. wheel is
kg	m	m	bar	bar	kg
Max, incline	Year of manufa	acture Modelly	aar.	20070	1985

Control Side

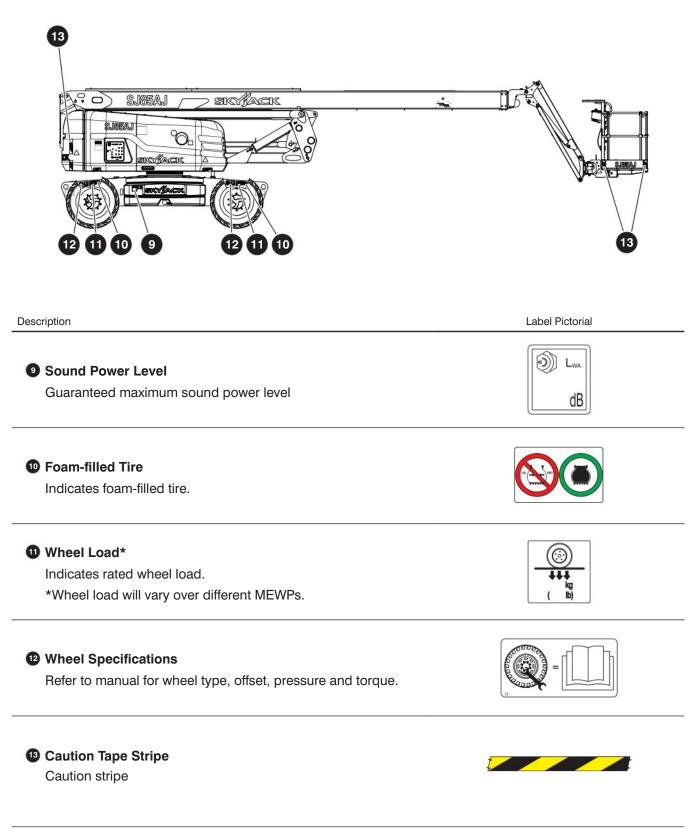




Control Side (Continued)

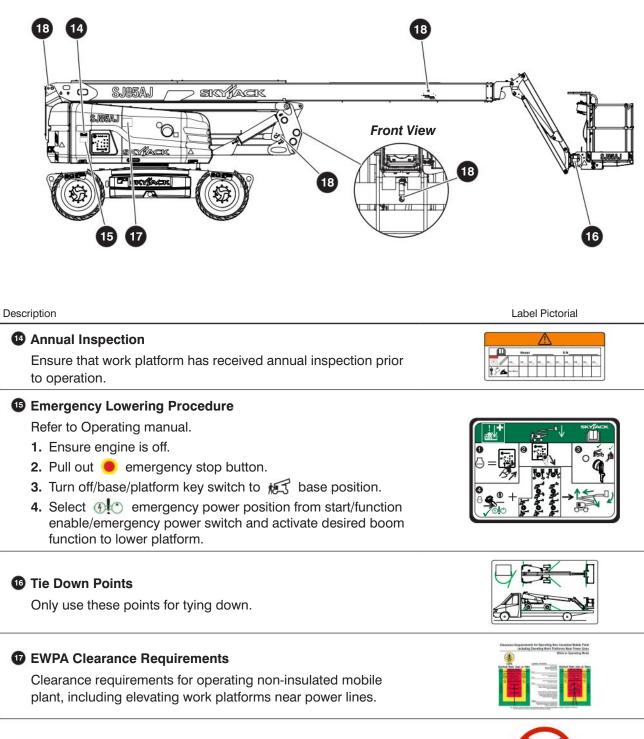


Control Side (Continued)





Control Side (Continued)

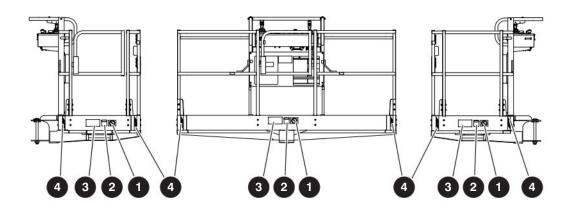


Warning - Do Not Alter

Do not alter or disable limit switches or other safety devices.



Platform Views



Description	Label Pictorial
No Jewelry Caution - Do not wear jewelry.	
Operator's Daily Inspection	
Refer to the Operating manual. Perform visual inspection and function tests at the beginning of each shift.	2
Refer to Section 4.4: Operator's Checklist.	

O Platform Capacity*

Rated work load in each configuration. 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.

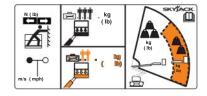
*Maximum platform capacity varies with boom position. Indicator lights on the base and platform control consoles indicate whether platform is in the "high" or "low" capacity zone.

Horizontal Load Rating

Apply no more than the indicated side load. Operate below indicated wind speed only.

4 Caution Tape Stripe

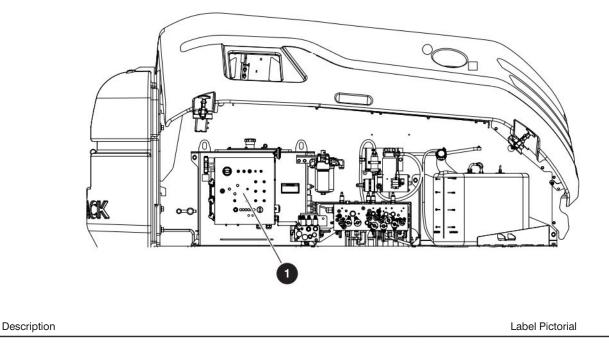
Caution stripe





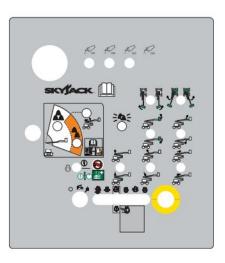


Control Compartment

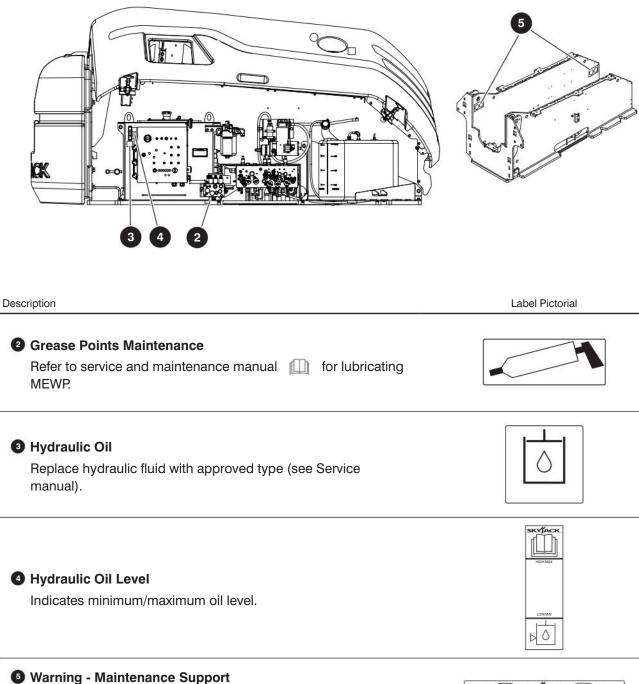


Base Control Console

Push S breaker back in to reset. Read (operating manual. Select $\frac{1}{2}$ to rotate platform to the left or $\frac{1}{2}$ to rotate to the right. Select select to tilt platform up or st to tilt platform down. Select st to move jib up or st to move jib down. Select 差 to raise riser or 🏂 to lower riser. Select 🥍 to rotate turret to the left or 😽 to rotate to the right. Select $\overset{\bullet}{\not{\sim}}$ to raise main boom or $\overset{\bullet}{\not{\sim}}$ to lower main boom. Select *stend* fly boom or *state* to retract fly boom. Select () to turn engine off, 15 to enable base control console or 🏓 to enable platform control console. Push 🔴 emergency stop to stop engine and disable controls. Push and hold \bigcirc to start engine. Push and hold (1) to enable base control functions. With engine off, push and hold to enable the emergency power unit for **W** emergency descent.



Control Compartment (Continued)

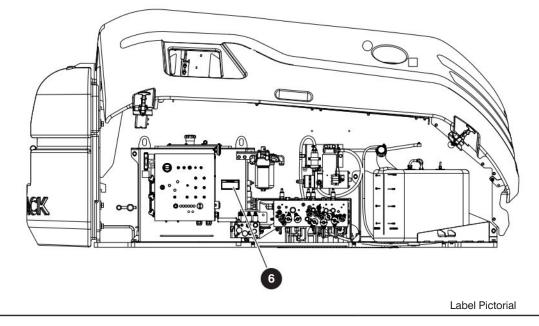


Do not enter the space beneath the work platform or extending structure during maintenance unless a means of structure support is in place. Refer to Service manual for instructions regarding machine power isolation and structure support during maintenance.





Control Compartment (Continued)



6 Winching & Towing Procedure

Refer to Operating manual.

Description

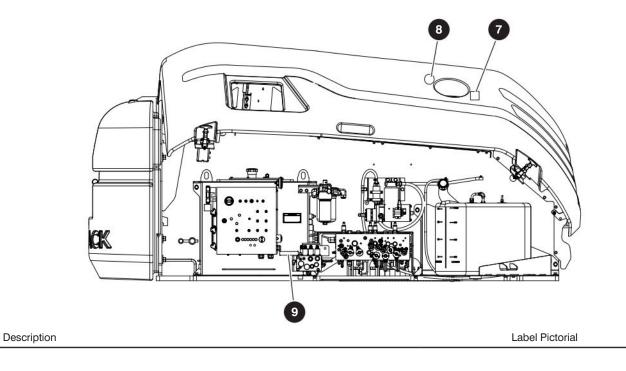
- 1. Block or chock wheels to prevent MEWP from rolling.
- 2. Turn main power disconnect switch to off position.
- **3.** At engine side, locate bypass valve (marked with yellow color) on inboard side of drive pump.
- **4.** Rotate bypass valve flat using pliers or 1/4" (7mm) wrench by 90 degrees (clockwise).
- 5. At hydraulic tank side, locate brake valve and pump.
- 6. Push in black knob.
- Pump by slowly pushing red knob in and out until 300 psi/ 21 bar shows on the gauge (if equipped). Brake is now released. Refer to Section 6.1 Winching & Towing Procedure.
- 8. A) Remove blocks from wheels.
 - B) Winch/tow to desired location.
- 9. Block or chock wheels to prevent MEWP from rolling.
- **10.** At hydraulic tank side, reset brake by pulling out black knob.
- **11.** At engine side, close bypass valve by rotating 90 degrees (counterclockwise) to normal condition (flat is parallel to shaft axis).

🖉 ΝΟΤΕ

Before operation, ensure all blocks are removed from wheels.



Control Compartment (Continued)



Diesel

Use ultra low sulfur fuel only.

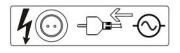
8 No Smoking

Do not smoke near this location.

Connect AC Supply Connect AC supply here.

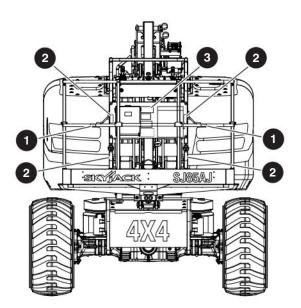








Rear Side



Description

Warning - No Step

No step warning



Label Pictorial

Pall Protection Anchorage

Attach body harness lanyards of each occupant to fall protection anchorage points.

Rated for one (1) person per anchorage.



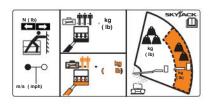
O Platform Capacity*

Rated work load in each configuration. 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.

*Maximum platform capacity varies with boom position. Indicator lights on the base and platform control consoles indicate whether platform is in the "high" or "low" capacity zone.

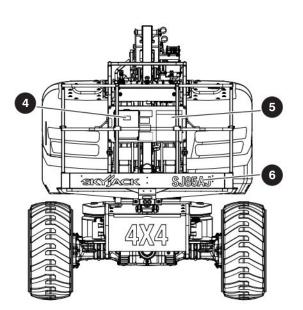
Horizontal Load Rating

Apply no more than the indicated side load. Operate below indicated wind speed only.



SJ85AJ

Rear Side (Continued)



Description

4 Manual Box

Indicates location of operating manual.

5 Hazard Identification

Refer to Section 2: Operator Safety. Read and understand outlined risks associated with this work platform prior to operation.

Model Number* Product Identifier

Froduct identilier

*Model number will vary, may not be as shown.

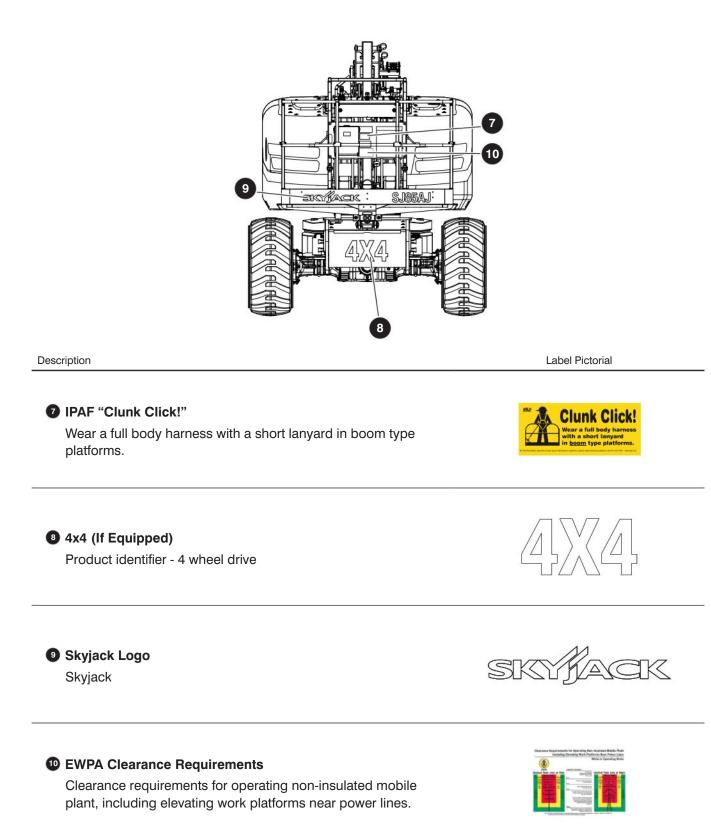


Label Pictorial



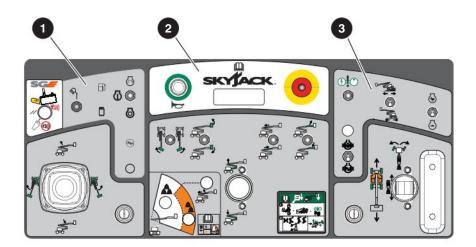


Rear Side (Continued)



97

Platform Control Console



Description



SGE Reset/Work Light (If Equipped)/Start Engine/Generator (If Equipped) Select // to reset SGE.

Select $^{\otimes}$ to enable work light (if equipped).

Push and hold O to start engine and then return to O on position or select O to turn engine off.

Select \bigcirc to turn hydraulic generator on or \bigcirc to turn it off.

Emergency Stop/Horn

Select 📂 to sound horn.

Read operating manual (

Push 😑 emergency stop to stop engine and disable controls.

3 Engine Controls/Emergency Power Unit

Select 🚯 to enable emergency power unit.

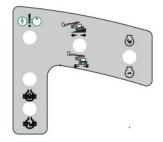
Select is low torque (higher speed) or is high torque (lower speed). Select is high torque when driving on a slope.

Select either S high or S low engine throttle speed.

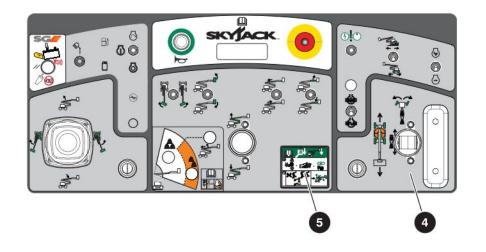
Select 4 to engage differential lock or 4 to disengage differential lock.





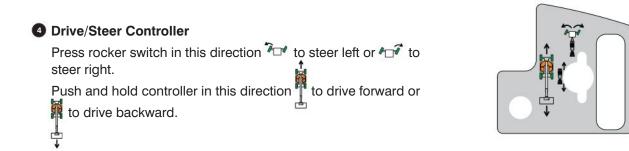


Platform Control Console Continued



Description

Label Pictorial



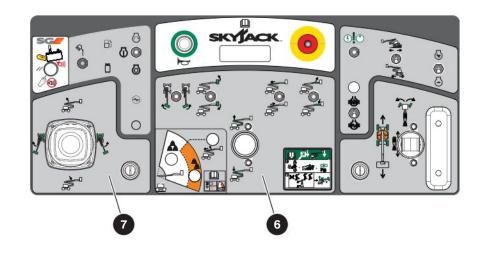
Emergency Lowering Procedure

Refer to Operating manual.

- 1. Select () on position from engine start/on/off switch, depress and hold footswitch, and select () from emergency power unit.
- 2. Activate desired boom function to lower platform.

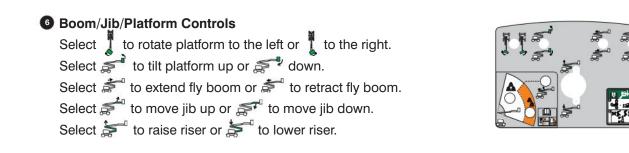


Platform Control Console Continued



Description

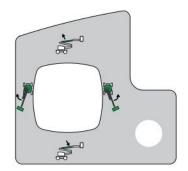
Label Pictorial



Ø Boom/Turret Controller

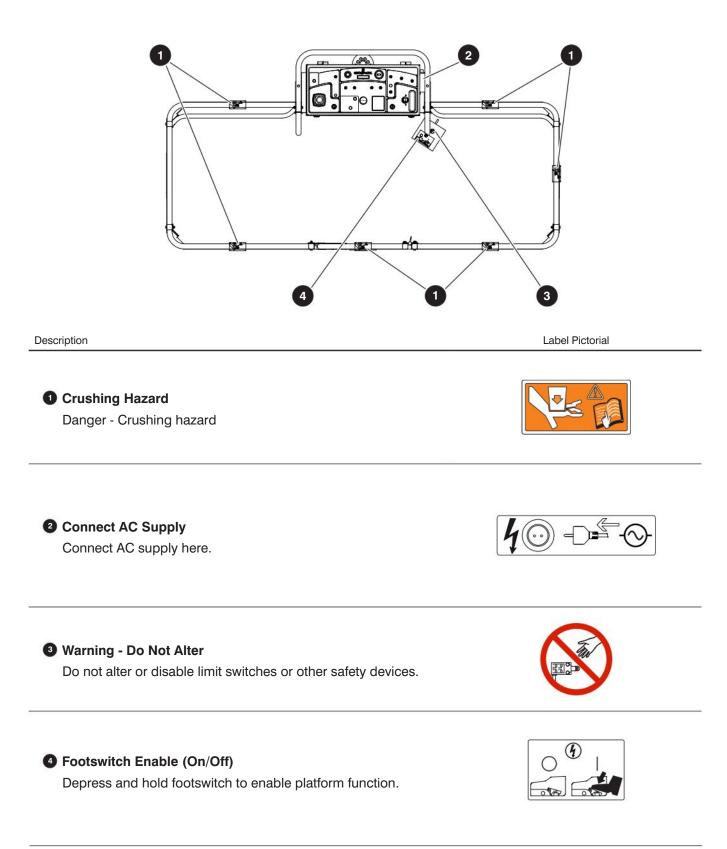
Push and hold controller in this direction \checkmark to rotate turret to the left or \checkmark to rotate turret to the right.

Push and hold the controller in this direction $\overset{\bullet}{\underset{}}$ to raise main boom or $\overset{\bullet}{\underset{}}$ to lower main boom.





Platform Railing



N	otes



Section 9 – Skyjack Features



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



Skyjack's mechanical "axle based" drive system gives positive traction and excellent rough ground "terrainability'.This industry leading terrain capability means one can use the Skyjack Rough Terrain Scissor Lifts, Boom Lifts and Telehandlers in the most challenging of conditions.



Unique boom feature only utilized by Skyjack which means the Boom Lift controls are always in the orientation of the operator regardless of position of turret over chassis. Reduces operator confusion by eliminating the need for color coded arrows to determine drive versus joystick direction.



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



A unique feature found on Skyjack's articulating boom lift. It ensures that the riser and main pivot point connecting the fly boom to the riser travel in a straight vertical line. Movement in a true vertical manner, without drifting forward or back, reduces the amount of repositioning the operator needs to do in order to stay close to a building façade.



Skyjack's Articulated Boom Lifts feature a boom geometry that allows the operator to lower the main fly boom to ground level to restock on material or supplies then return to full height at the original working position - without lowering the riser section. This functionality adds to the versatility and productivity of Skyjack's Articulating Boom Lifts, especially as it can be quickly executed and there is no need for machine repositioning or having to remember the sequence of operations to get back to the original working position.

N	otes

