



OPERATING MANUAL (CE)

ARTICULATING BOOMS

MODEL **SJ63AJ**



170496AFA September 2020



SKYJACK

This manual is based on Serial Number(s):

SJ 63AJ 95 300 481 & Above

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

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



This Safety Alert Symbol means attention!

Become alert! Your safety is involved.



DANGER

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



WARNING

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



CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

IMPORTANT

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

Original instructions in English.

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

Mobile Elevating Work Platform (MEWP) Definition

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

Purpose of Equipment

The SKYJACK Articulating Boom Series (Model SJ 63AJ) MEWP is designed to transport and raise personnel, tools and materials to overhead work areas.

Use of Equipment

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

Manual

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

Operator

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

Service Policy and Warranty

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

Optional Accessories

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

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

☎ : 44-1691-676-235

📠 : 44-1691-676-238

Include the model and serial number for each applicable MEWP.

Scope of this Manual

- a. This manual applies to the CE version of the Articulating Boom MEWP models listed in [Table 4.1](#).
 - Equipment identified with “CE” meets the requirements of the Machinery Directive 2006/42/EC and the EMC Directive 2004/108/EC.
- b. Operators are required to conform to national, state or territorial/provincial and local health and safety regulations applicable to the operation of this MEWP.

**WARNING**

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

Operator Safety Reminders

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

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

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

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

Electrocution Hazard

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

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

**DANGER**

Avoid Power Lines

Minimum Safe Approach Distance**CE Guidance Note**

“Avoidance of danger from overhead lines”

Adhere strictly to the governmental rulings and regulations applicable in your country.

FAILURE TO AVOID THIS HAZARD WILL RESULT IN DEATH OR SERIOUS INJURY!

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Safety Precautions

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

**WARNING**

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

- **KNOW** all national, state or territorial/provincial and local rules which apply to your MEWP and jobsite.
- **TURN** main power disconnect switch “○” 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 4, Table 4.5](#).



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



- **DO NOT** elevate 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.



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



Safety Precautions (Continued)

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

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



- **DO NOT** exert horizontal (manual) force on MEWP that exceeds the limits specified in [Table 4.5](#).



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



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



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



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



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



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



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

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

- **DO NOT** 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.

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

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



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

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

Safety Precautions (Continued)

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

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



- **DO NOT** distribute load unevenly.



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



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

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

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

- **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.



Safety Precautions (Continued)

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

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.

**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 aerial platform.

**WARNING**

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

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

**WARNING**

An operator should not use any MEWP that:

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

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

Jobsite Inspection

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

2.1 Familiarization of Articulated Boom Series

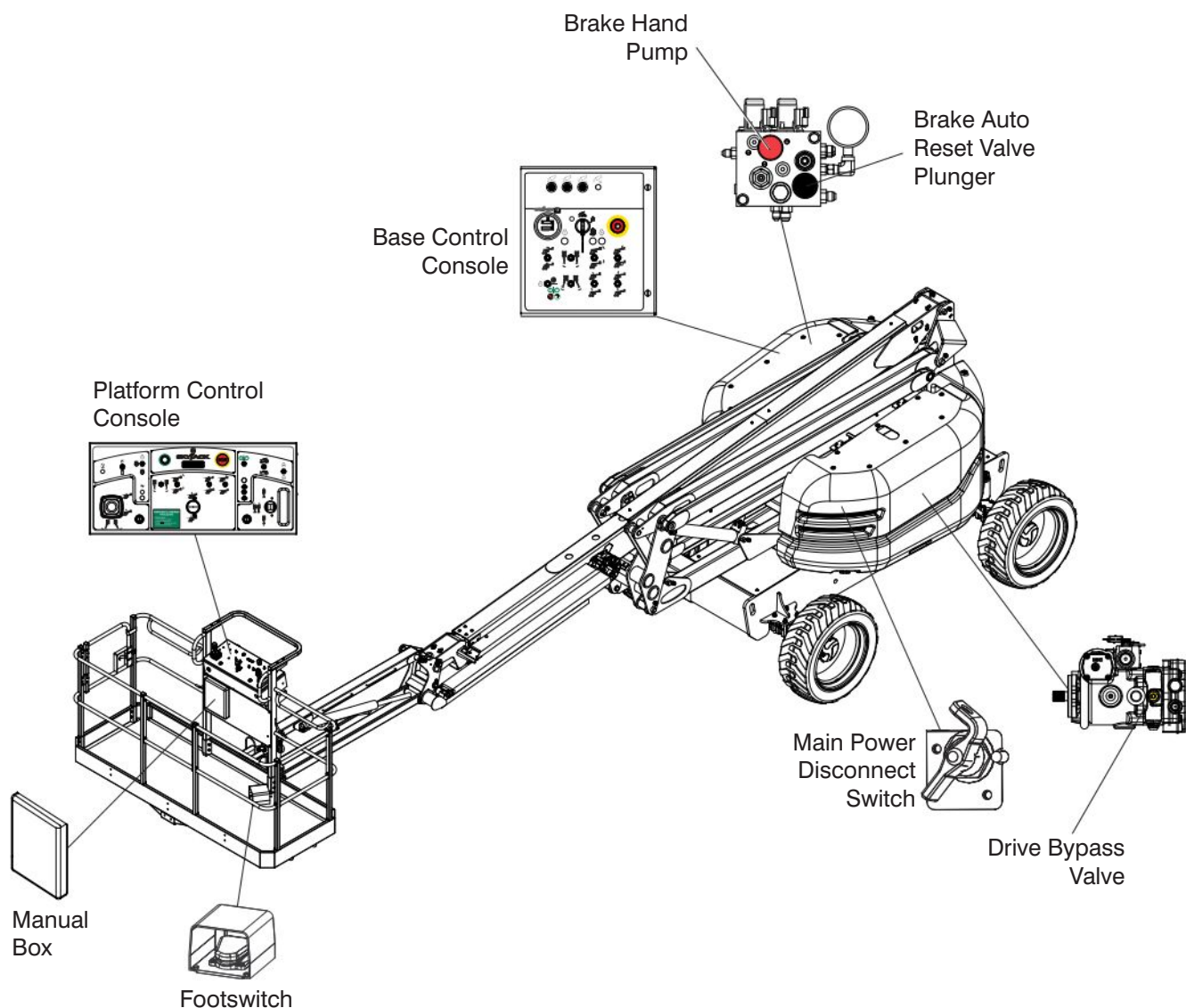
**WARNING**

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

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

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

2



FAMILIARIZATION

2.2 Component Identification

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

2.2-1 Main Power Disconnect Switch & Battery Charge Indicator

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

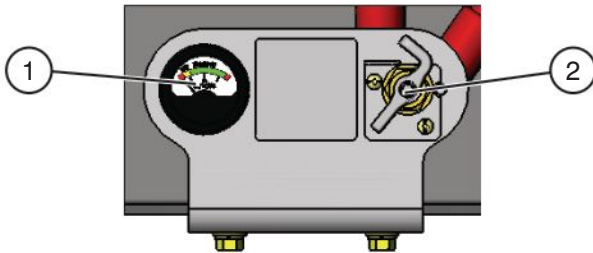


Figure 2-1. Main Power Disconnect Switch & Battery Charge Indicator

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

2.2-2 Tilt Sensor

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



WARNING

If MEWP becomes tilted causing alarm to sound, the platform must be fully lowered immediately. Ensure that MEWP is on a firm level surface before operating the MEWP. Refer to [Section 3.12](#) for instructions regarding recovery from an inclined position.

2.2-3 Drive Bypass Valve

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

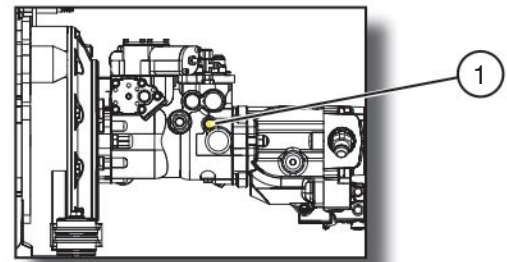


Figure 2-2. Drive Bypass Valve

1. **Drive Bypass Valve with Override Stems** - This valve, when rotated by 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 2.5](#) for Winching and Towing procedure.

2.2-4 Brake System

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

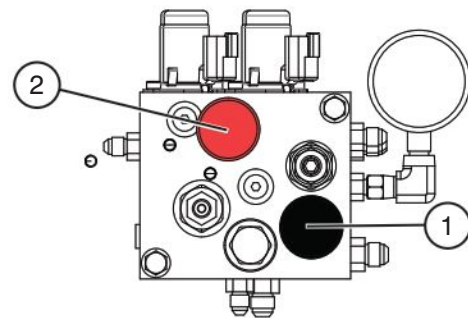


Figure 2-3. Brake System

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

2.2-5 Differential Lock Switch

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



WARNING

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

2.2-6 Footswitch

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

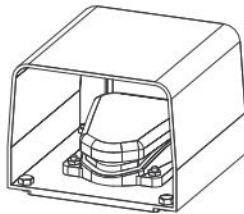


Figure 2-4. Footswitch

NOTE

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

2.2-7a Platform Load Sensing System

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

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

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

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

2.2-7b Overload Status Table

Weight	Indicator Light	Audible Alarm	Platform Function Controls
93% - 99%	On	Off	Enabled
100%	Flashing	Off	Enabled
≥ 100% (Work Mode)	Flashing	Pulsing	Disabled
≥ 100% (Travel Mode)	Flashing	Pulsing	Disabled

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WARNING

Do not operate emergency power unit if platform capacity is exceeded. If the platform is overloaded due to contact with an overhead obstruction, do one of the following:

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

2.2-8 Base Control Console

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

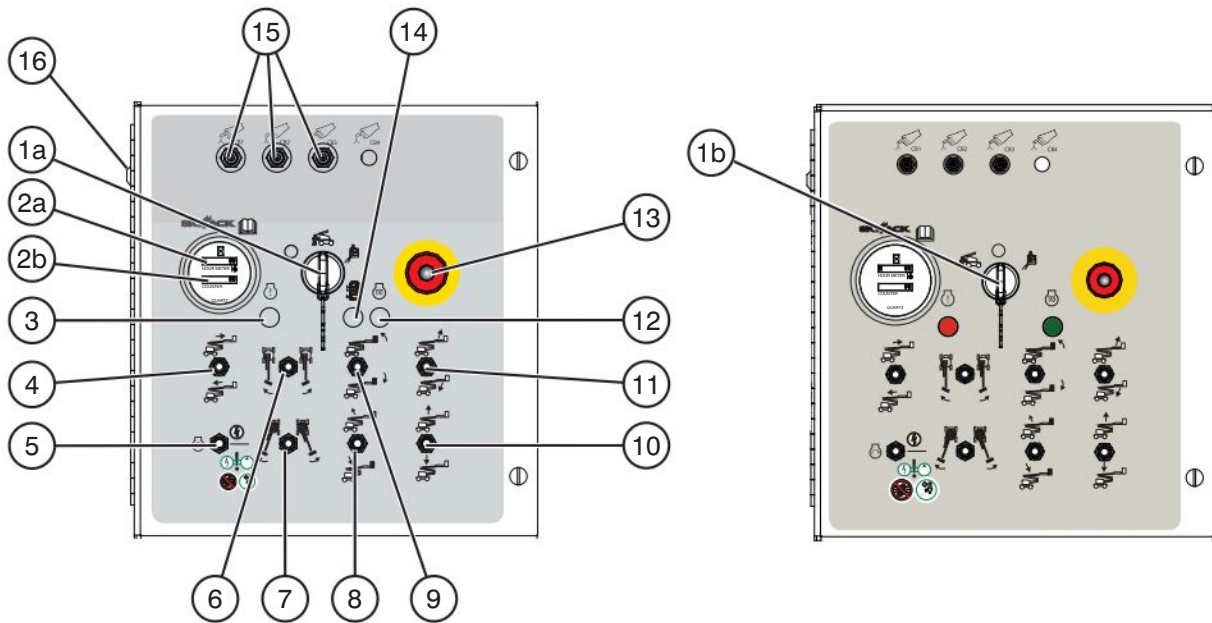


Figure 2-5. Base Control Console

1a. Off/Base/Platform Key Switch - This three-way selector switch allows operator to “O” turn off power to MEWP or to activate either “” base or “” platform control console.

1b. Base/Off/Platform Key Switch - This three-way selector switch allows operator to “O” turn off power to MEWP or to activate either “” base or “” platform control console.

2a. Hourmeter - This gauge records accumulated operating time of engine.

2b. Emergency Lowering Counter - This gauge increments each time the emergency power unit is activated while MEWP is in work mode and overloaded.

3. Engine Fault - This light indicates failure in engine control system.

4. Fly Boom Extend/Retract Switch - This switch controls “” extension or “” retraction of fly boom.

5. Start/Function Enable/Emergency Power Switch - This momentary switch, when held in “” start position, starts engine. When held in “” function enable position, allows base control functions to operate. With engine off, and when held in “” emergency power unit position, allows base control functions to operate using emergency power unit.



WARNING

Do not operate boom functions if platform capacity is exceeded.

6. Platform Rotation Switch - This switch controls “” left or “” right rotation of platform.

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

8. Main Boom Raise/Lower Switch - This switch controls “” raising or “” lowering of main boom.

2.2-8 Base Control Console (Continued)

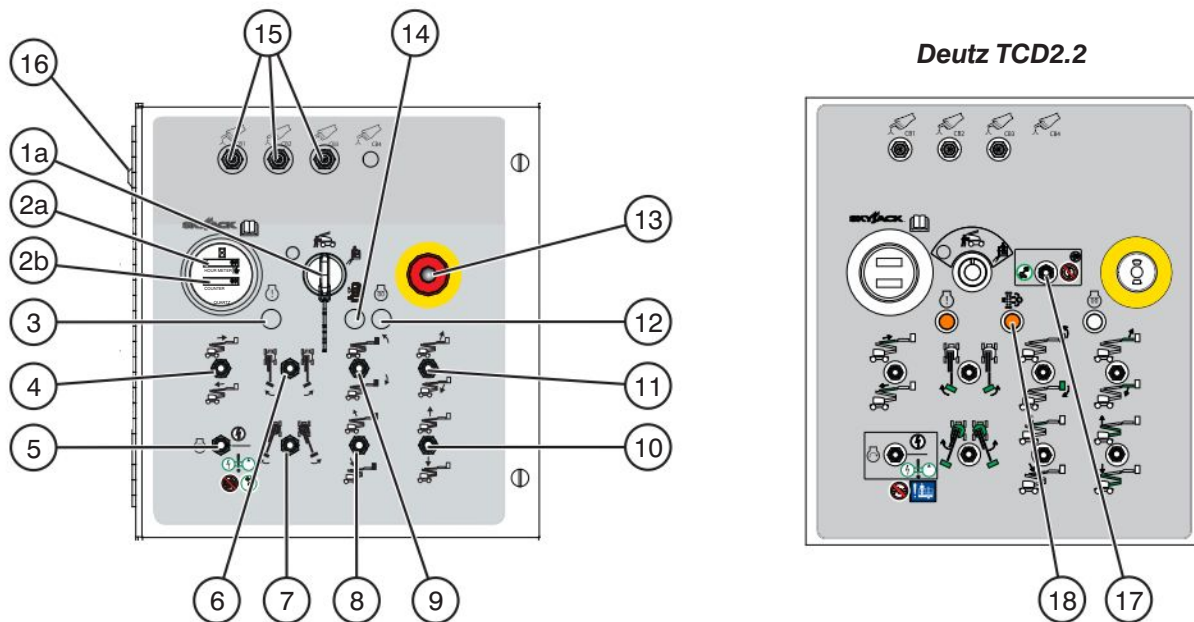


Figure 2-5. Base Control Console

9. **Platform Leveling Override Switch** - This switch overrides automatic leveling of platform and controls “” tilting up or “” tilting down of platform.
10. **Riser Raise/Lower Switch** - This switch controls “” raising or “” lowering of riser.
11. **Jib Up/Down Switch** - This switch controls “” up or “” down movement of jib.
12. **Glow Plug (Diesel)** - This light illuminates until glow plugs have completed their timed cycle. When the lamp goes out, the engine is ready to be started.
13. **Emergency Stop Button** - This red “mushroom-head” “” pushbutton disconnects power to control circuit and shuts engine off.
14. **Water In Fuel Light (If Equipped)** - This light indicates water separator is full. Open drain to release water. Engine damage could occur if ignored for excessive length of time.
15. **Circuit Breakers** - In the event of a power overload or positive circuit grounding, the circuit breaker pops out. Push breaker back in to reset.
16. **Engine Diagnosis Switch (If Equipped)** - When held in either direction, this switch “” enables an error blink code for engine control unit (ECU).
17. **Standstill switch (Deutz TCD2.2)** - When moved to the right, this switch disables the base functions as part of the regeneration process. When moved to the left it enables normal MEWP operation. Refer to [Section 3.10](#).
18. **Standstill light (Deutz TCD2.2)** - This light indicates the standstill/regeneration status. An audible alarm sounds while the light is flashing. Refer to [Section 3.10](#).

2.2-9 Platform Control Console

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

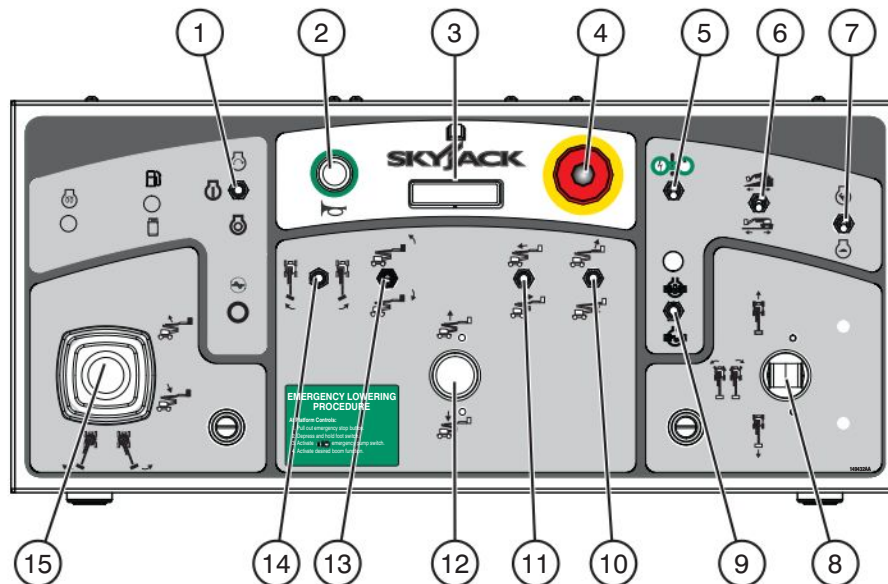
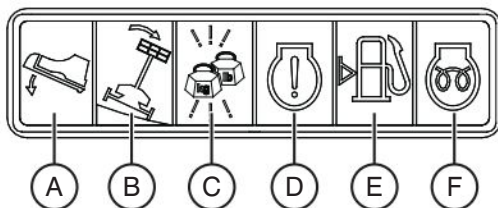


Figure 2-6. Platform Control Console

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



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

- B. **Chassis Tilt** - This light illuminates when the MEWP chassis is at an inclination that activates the tilt sensor. At this inclination, an audible alarm will sound at the platform. Refer to [Section 3.12](#) for instructions regarding recovery from an inclined position.
- C. **Overload Light** - This red light indicates overload status. Refer to [Section 2.2-7](#).
- D. **Engine** - This light indicates failure in engine control system.
- E. **Fuel** - This light indicates low fuel level.
- F. **Glow Plug (Diesel)** - This light illuminates until glow plugs have completed their timed cycle. When the lamp goes out, the engine is ready to be started.

4. **Emergency Stop Button** - This red “mushroom-head” “” pushbutton disconnects power to control circuit and shuts engine off.
5. **Emergency Power Unit** - This switch “” enables emergency power unit.
6. **Torque Switch** - This switch selects “” low or “” high torque. Select “” low torque (higher speed) or “” high torque (lower speed). Select “” high torque when driving on a slope.

2.2-9 Platform Control Console (Continued)

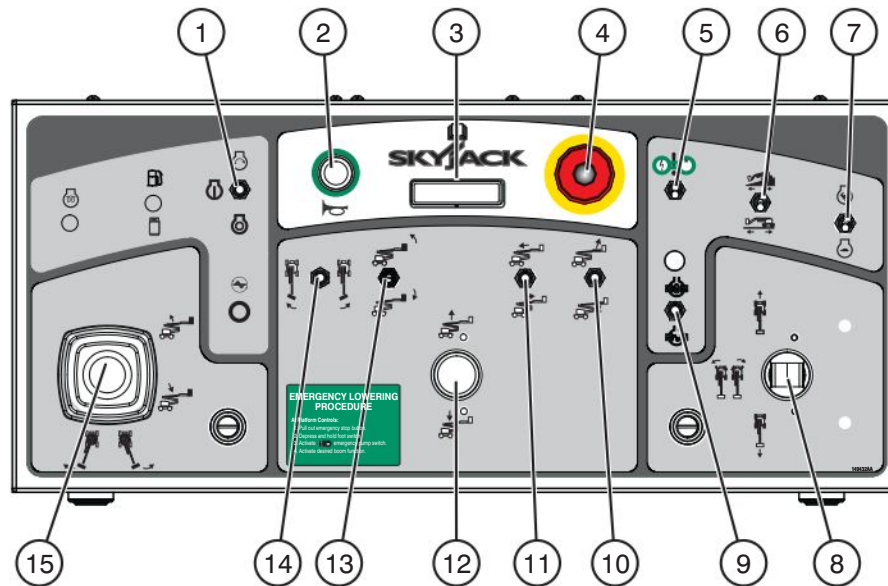
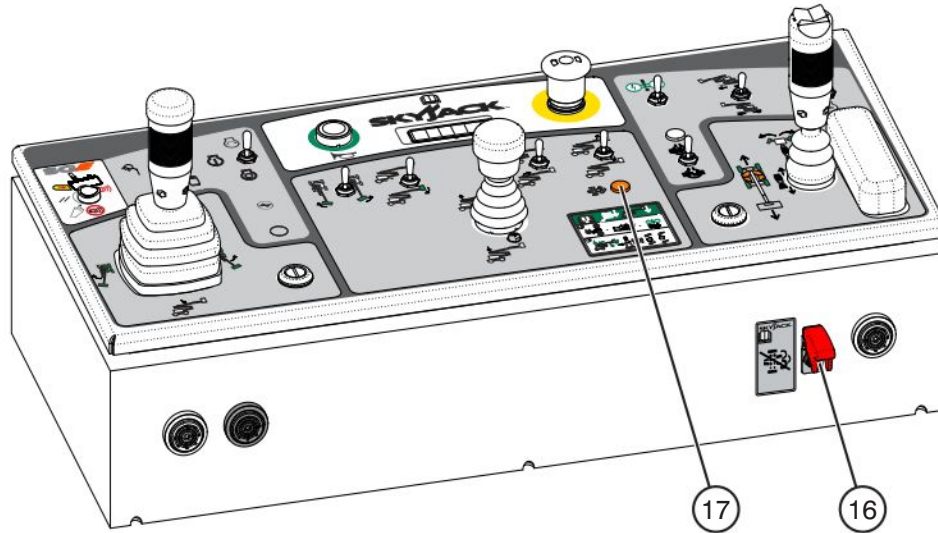


Figure 2-6. Platform Control Console

7. **Low/High Throttle Switch** - This switch allows selection between “” low and “” high engine throttle speeds.
8. **Drive/Steer Controller** - This single-axis lever controls driving “” forward or “” backward.

The rocker switch controls steering “” left or “” right. Internal springs return it to neutral when stick is released.
9. **Differential Lock Switch** - This momentary switch, when pushed forward and then released, engages “” differential lock and turns differential light on. When pulled backward and then released, disengages “” differential lock and turns differential light off.
10. **Jib Up/Down Switch** - This switch controls “” up or “” down movement of jib.
11. **Fly Boom Extend/Retract Switch** - This switch controls “” extension or “” retraction of fly boom.
12. **Riser Raise/Lower Controller** - This single-axis lever controls “” raising or “” lowering of riser.
13. **Platform Leveling Override Switch** - This switch overrides automatic leveling of platform and controls “” tilting up or “” tilting down of platform.
14. **Platform Rotation Switch** - This switch controls “” left or “” right rotation of platform.
15. **Boom/Turret Controller** - This dual-axis lever controls “” raising or “” lowering of main boom or rotating “” left or “” right of turret.

2.2-9 Platform Control Console (Continued)

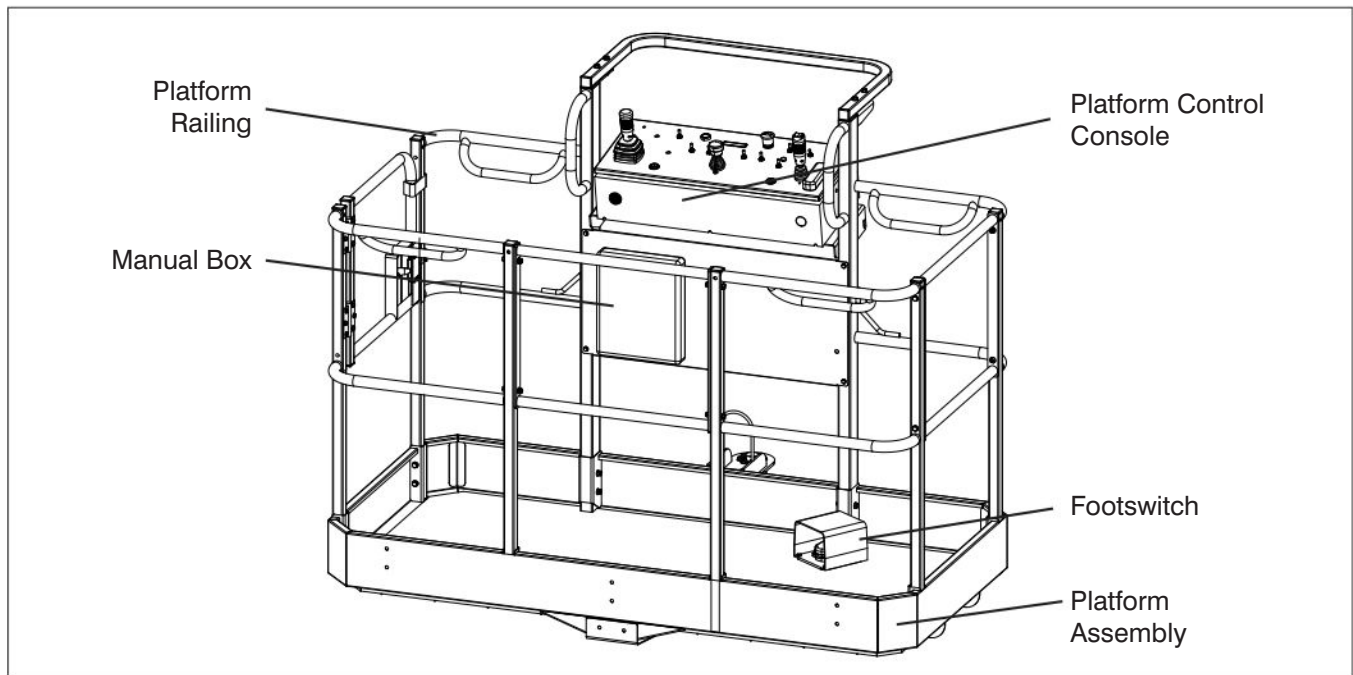
*Figure 2-6. Platform Control Console*

16. **Regeneration override switch (Deutz TCD2.2) (If Equipped)** - This switch temporarily overrides the regeneration request and returns the engine to full power and speed. Refer to [Section 3.10](#).

IMPORTANT

Be aware that use of this switch may result in diesel particulate filter failure.

17. **Standstill light (Deutz TCD2.2)** - This light indicates the standstill/regeneration status. An audible alarm sounds while the light is flashing. Refer to [Section 3.10](#).



2.3 Visual & Daily Maintenance Inspections

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



WARNING

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



WARNING

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



CAUTION

Ensure MEWP is on a firm, level surface.

NOTE

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

2.3-1 Labels

Refer to [Section 5 - Labels](#) in this manual and determine that all labels are in place and are legible.

2.3-2 Electrical

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

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

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

2.3-3 Limit Switches

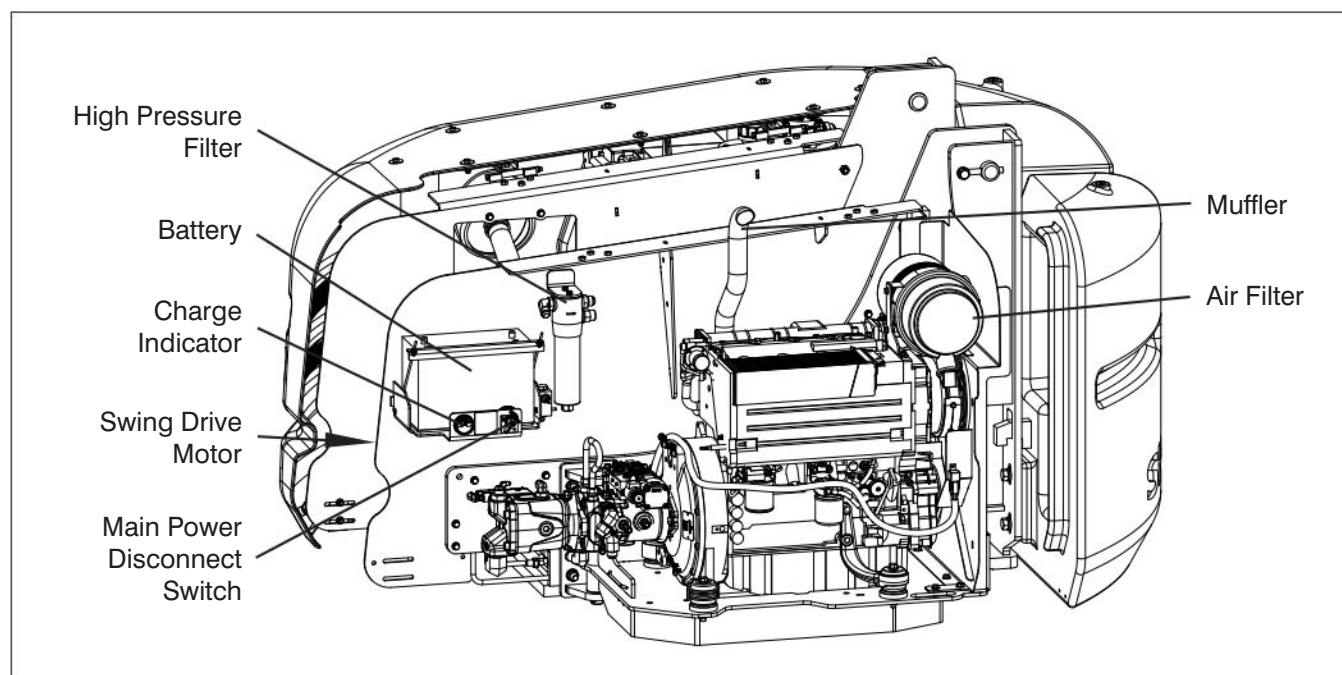
Ensure limit switches are properly secured with no signs of visible damage and movement is not obstructed.

2.3-4 Hydraulic

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

Perform a visual inspection around the following areas:

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



2.3-5 Engine Compartment

- Ensure all compartment latches are secure and in proper working order.
- **Main Power Disconnect Switch**
 - Turn main power disconnect switch to “O” off position.
 - Ensure there are no loose or missing parts and there is no visible damage.
 - Ensure all cables are secure and switch is in proper working condition.
- **Battery**
Proper battery condition is essential to good engine performance and operational safety. Improper fluid levels or damaged cables and connections can result in engine component damage and hazardous conditions.



WARNING

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



WARNING

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

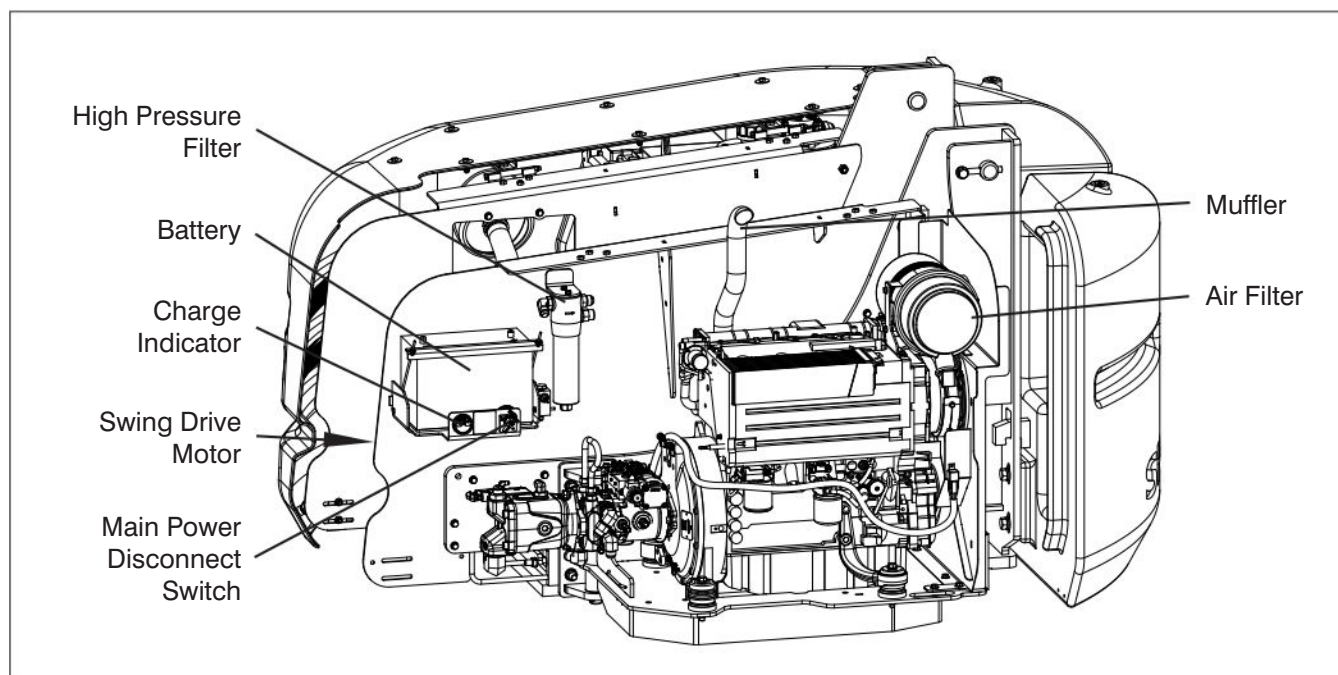
1. Check battery cases for damage.
2. Clean battery terminals and cable ends thoroughly with a terminal cleaning tool or wire brush.
3. Ensure all battery connections are tight.
4. If applicable, check battery fluid level. If plates are not covered by at least 13 mm (1/2") of solution, add distilled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



WARNING

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

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



- **High Pressure Filter**
 - Ensure housing is secure and shows no visible damage or leakage.
- **Hydraulic Pumps**
 - Ensure there are no loose or missing parts and there is no visible damage.
 - Ensure all bolts are properly tightened.
 - Ensure all fittings and hoses are properly tightened and there is no evidence of hydraulic leakage.
- **Muffler and Exhaust**
 - Ensure muffler and exhaust system are properly secured, with no evidence of damage.
- **Engine Pivot Tray**
 - Ensure there are no loose or missing parts and no visible damage to the engine pivot tray.
- **Engine Oil Level**
 - Maintaining the engine components is essential to good performance and service life of the MEWP.

**WARNING**

Beware of hot engine components.

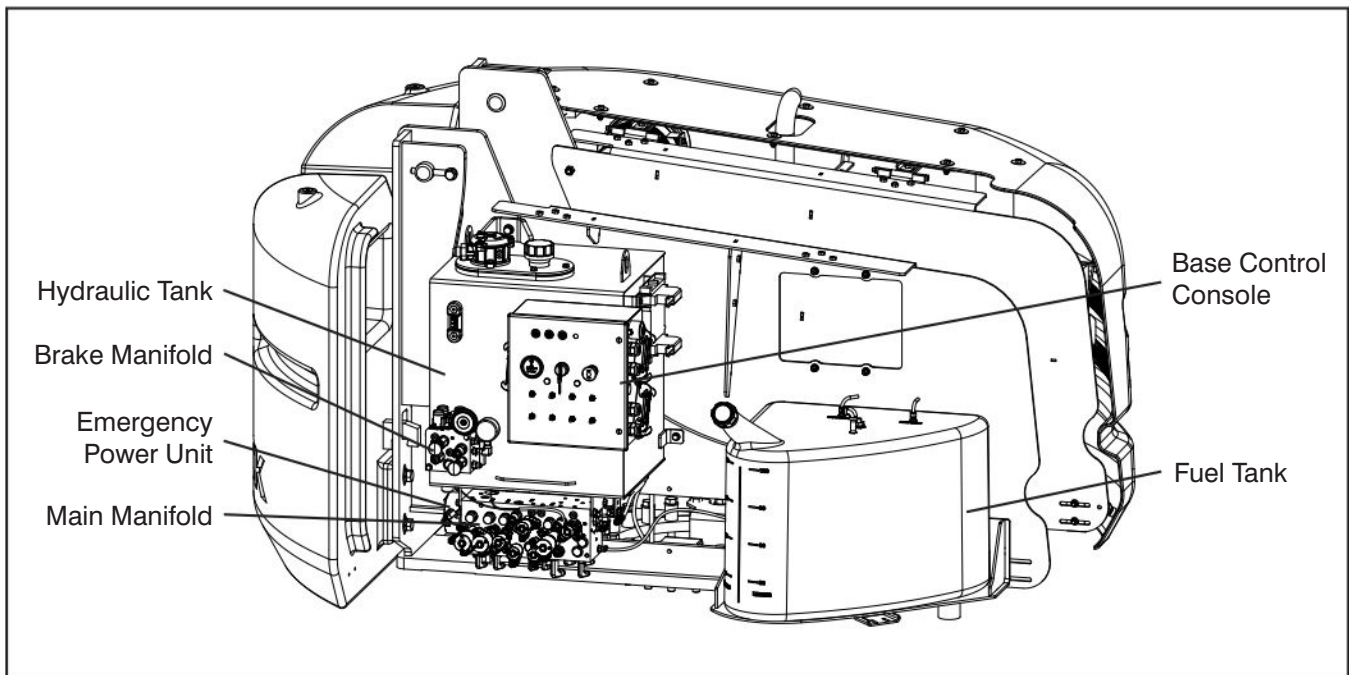
Check oil level on dipstick

- Oil level should be in the “safe” zone. Add oil as needed. Refer to [Table 4.2b](#) for recommended oil type.
- **Engine Air Filter**
 - Ensure there are no loose or missing parts and there is no visible damage.
- **Fuel Leaks**
 - Ensure that there no fuel leaks.

**DANGER**

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

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

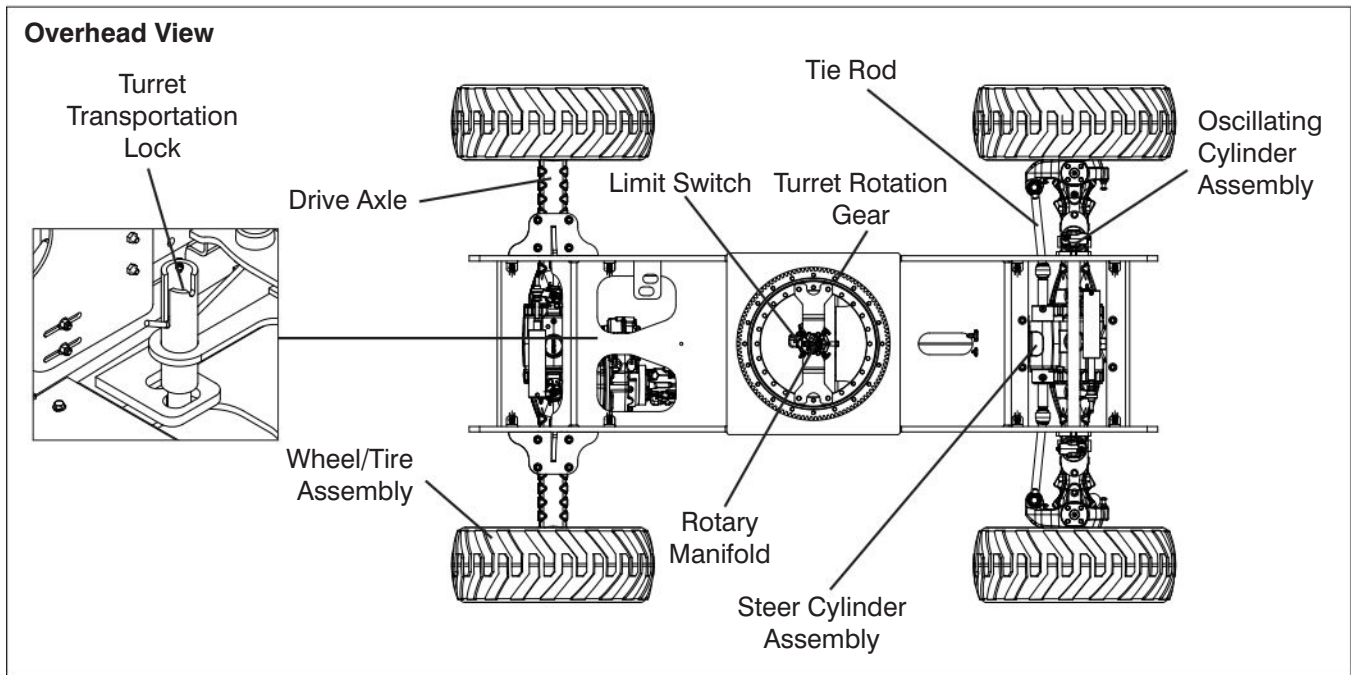


2.3-6 Control Compartment

- 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.
- **Hydraulic Tank**
 - Ensure hydraulic filler cap is secure.
 - Ensure tank shows no visible damage and no evidence of hydraulic leakage.
- **Hydraulic Oil**
 - Be sure that the boom is in the stowed position, and then visually inspect the sight gauge located on the front 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 [Table 4.2b](#) for recommended oil type.
- **Brake and Main Manifolds**
 - Ensure all fittings and hoses are properly tightened and there is no evidence of hydraulic leakage.
 - Ensure there are no loose wires or missing fasteners.
- **Emergency Power Unit**
 - Ensure there are no loose or missing parts and there is no visible damage.
 - Ensure there are no loose wires or missing fasteners.
 - Ensure all fittings and hoses are properly tightened and there is no evidence of hydraulic leakage.
- **Fuel Tank**
 - Ensure fuel filler cap is secure.
 - Ensure tank shows no visible damage and no evidence of fuel leakage.

IMPORTANT

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



- **Fuel Leaks**
 - Ensure that there no fuel leaks.



DANGER

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

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

2.3-7 Base

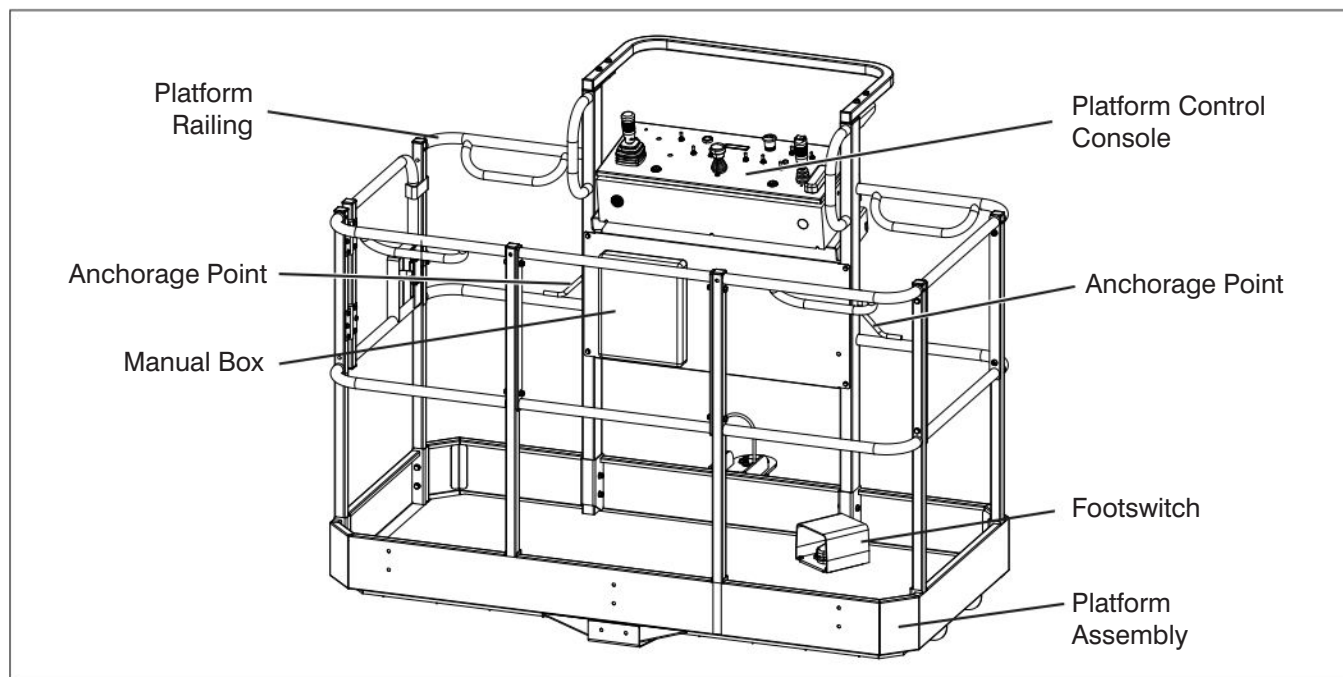
- **Turret Transportation Lock**
 - Ensure turret transportation lock is unlocked, there are no loose or missing parts and there is no visible damage.
- **Drive Axle**
 - Ensure drive axle is properly secured, there are no loose or missing parts, all fittings and hoses are properly tightened and there is no evidence of hydraulic leakage.

- **Oscillating Cylinder Assembly**
 - Ensure oscillating cylinder assembly is properly secured, there are no loose or missing parts, all fittings and hoses are properly tightened and there is no evidence of hydraulic leakage.

NOTE

Oscillating axle is locked when MEWP is in work mode. Refer to [Diagram 3.2. Axle Oscillation Diagram](#).

- **Steer Cylinder Assembly**
 - Ensure steer cylinder assembly is properly secured, there are no loose or missing parts, all fittings and hoses are properly tightened and there is no evidence of hydraulic leakage.
- **Tie Rod**
 - Ensure there are no loose or missing parts, tie rod end studs are locked and there is no visible damage.



- **Wheel/Tire Assembly**
The MEWP is equipped with foam-filled tires. Tire and/or wheel failure could result in an MEWP tip over. Component damage may also result if problems are not discovered and repaired in a timely fashion.
- Check all tire treads and sidewalls for cuts, cracks, punctures and unusual wear.
- Check each wheel for damage and cracked welds.
- Check each lug nut for proper torque to ensure none are loose.
- Check to be sure manual storage box is present and in good condition.
- Ensure manuals are legible and in good condition.
- Always return manuals to the manual storage box after use.

Refer to [Table 4.4](#) for tire/wheel specifications.



WARNING

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

2.3-8 Manuals

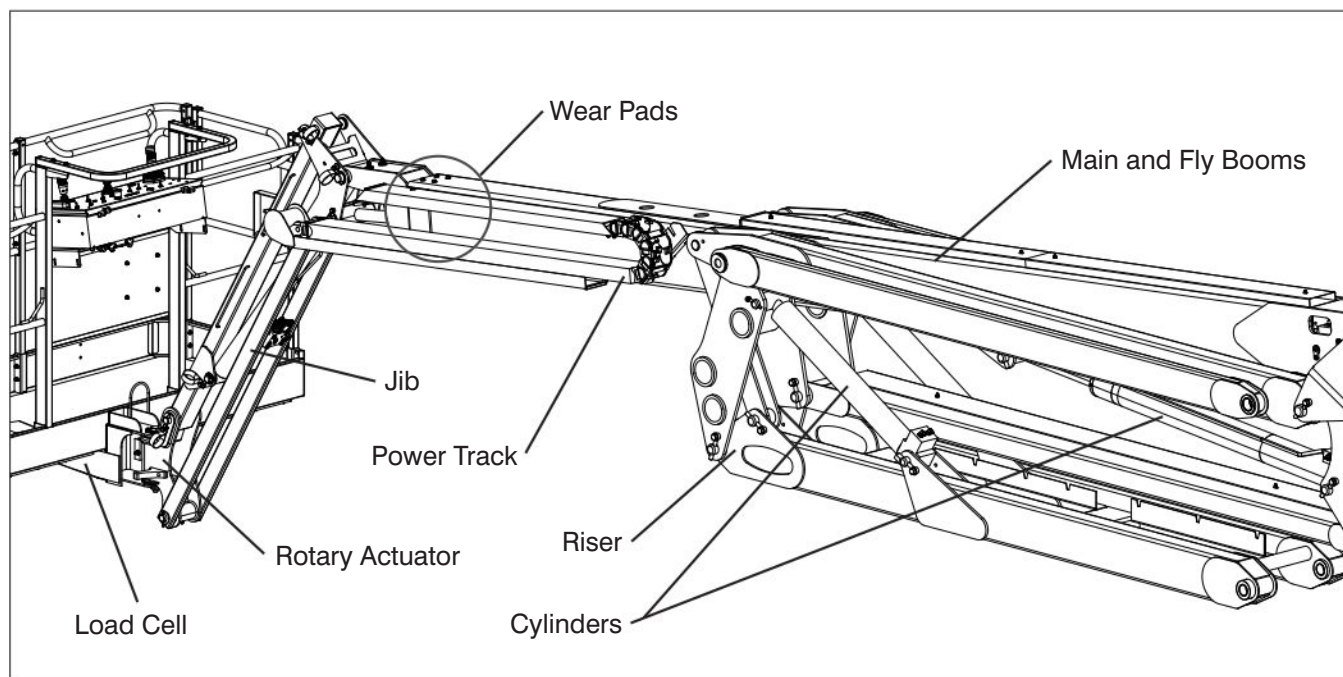
Ensure a copy of operating manual, EC declaration and other important documents are enclosed in manual storage box.

2.3-9 Platform Assembly

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

2.3-10 Platform Control Console

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

**2.3-11 Rotary Actuator**

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

2.3-12 Load Cell

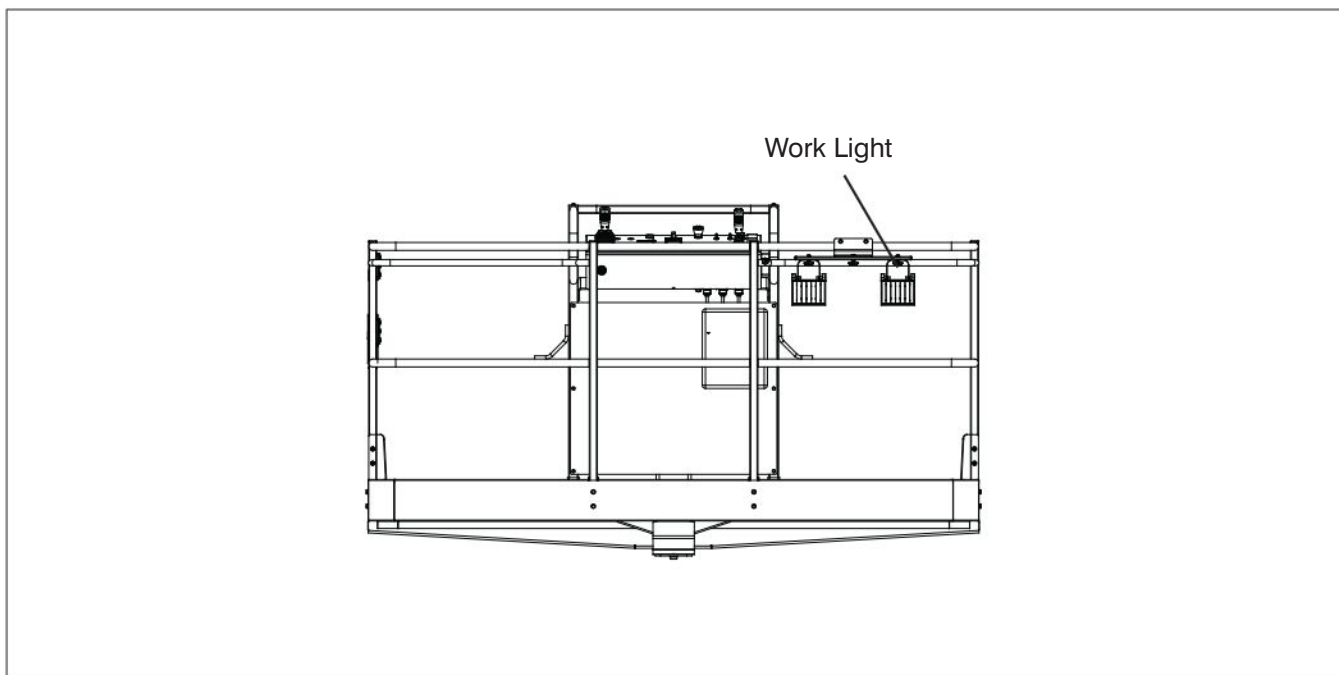
- Ensure there are no loose or missing parts and there is no visible damage.
- Ensure all bolts are properly tightened.
- Ensure all cables are secure and are in proper working condition.
- Ensure debris is not lodged between the platform and boom adaptor.

2.3-13 Jib

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

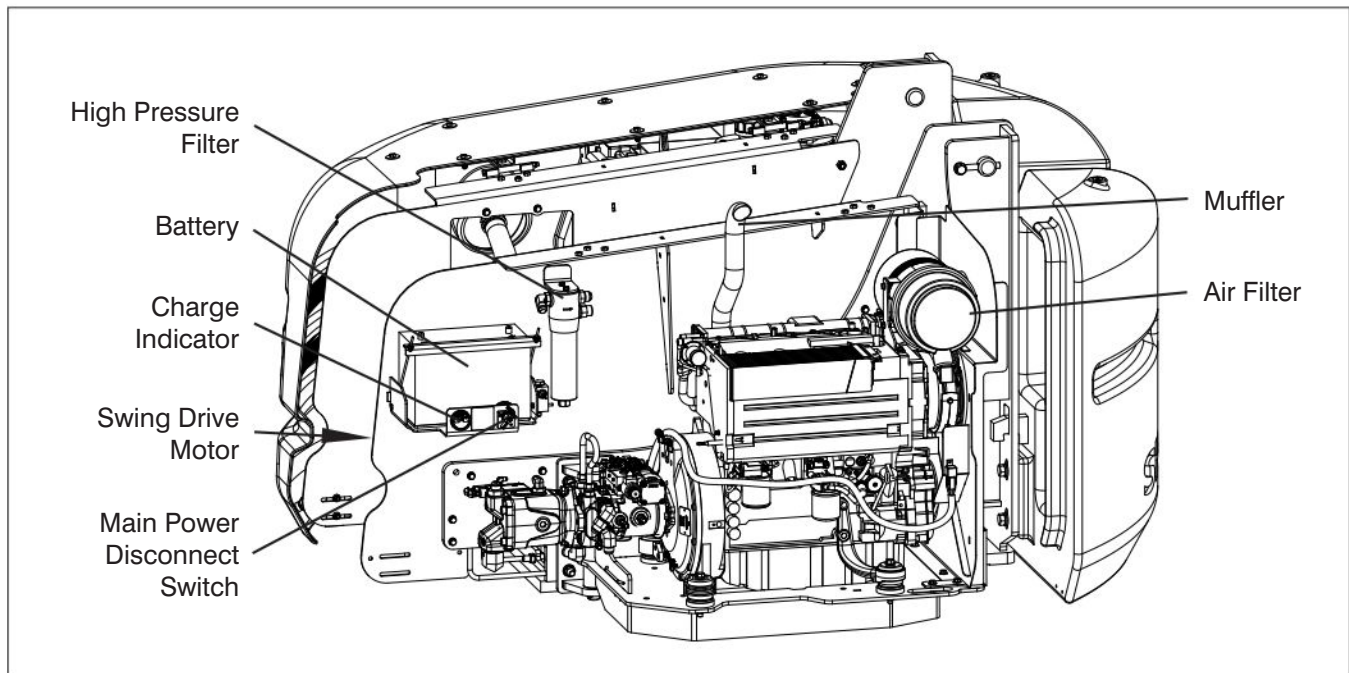
2.3-14 Boom

- Ensure there are no loose or missing parts and there is no visible damage.
- Ensure all bolts and pins are properly tightened.
- Ensure there are no visible cracks in welds or structure and there are no signs of deformation.
- Ensure all hoses are properly tightened and there is no evidence of hydraulic leakage.
- **Cylinders**
 - Ensure all cylinders are properly secured and there is no evidence of leakage.
- **Wear Pads**
 - Ensure all bolts are tight, there is no visible damage to the wear pads and that no parts are missing.
- **Hoses**
 - Ensure all hoses are properly tightened and there is no evidence of hydraulic leakage.
- **Power Track**
 - Ensure there are no loose or missing parts and there is no visible damage.



2.3-15 Optional Equipment/Attachments

- **Battery Warmer/Hydraulic Oil Heater (If Equipped)**
 - Ensure battery warmer/hydraulic oil heater cord is properly secured with no signs of visible damage and hydraulic leakage.
- **Work Light (If Equipped)**
 - Ensure lamps are properly secured with no signs of visible damage.
 - Ensure mounting bracket is properly secured.
 - Ensure there are no loose wires or missing fasteners.
- **Flashing Amber Light (If Equipped)**
 - Ensure lamp is properly secured with no signs of visible damage.



2.4 Function Tests

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

IMPORTANT

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

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

Prior to performing function tests, be sure to read and understand [Section 3.8 - Start Operation](#).



CAUTION

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



WARNING

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

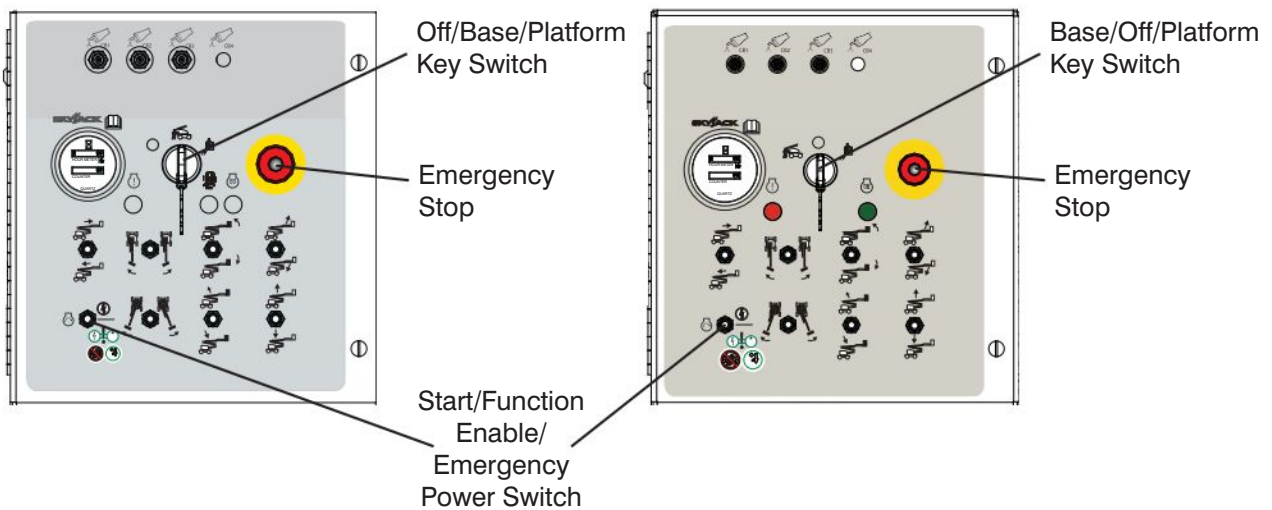
NOTE

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

2.4-1 Test Main Power Disconnect Switch

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

Base Control Console



2.4-2 Test Charge Indicator

1. Ensure both “” emergency stop buttons are pulled out.
2. In engine compartment, turn main power disconnect switch to “I” on position.
Result: Charge indicator needle should move and stay within the green area.

Charge Indicator Levels

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

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

**WARNING**

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

NOTE

Close all cowlings before proceeding to next item.

2.4-3 Base Control Console

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

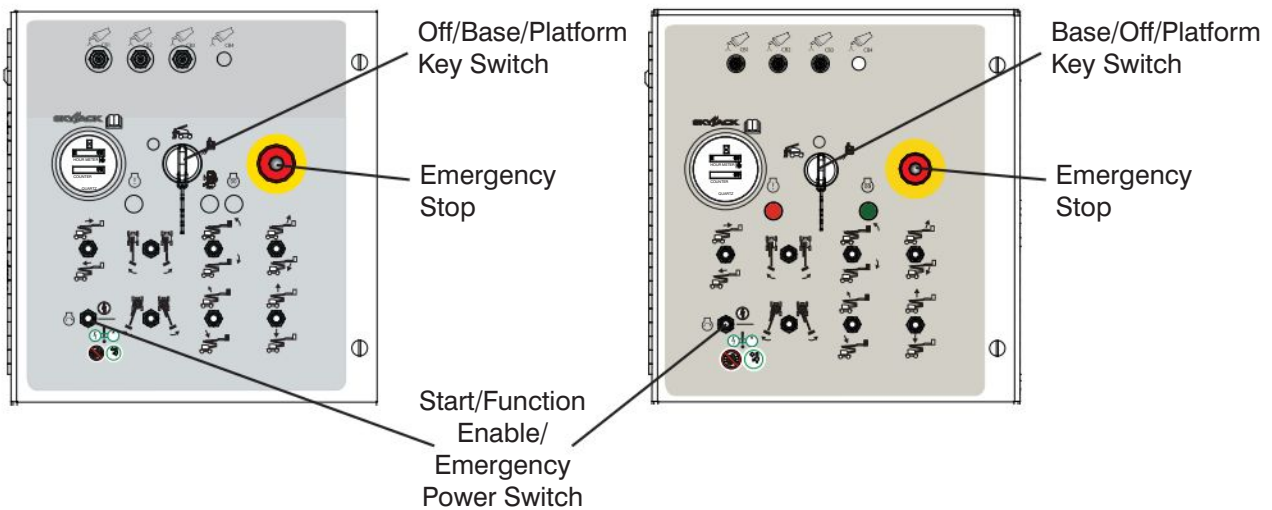
**WARNING**

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

• Test Base Emergency Stop Light

1. On base control console, pull out “” emergency stop button.
Result: Emergency stop light should continuously illuminate. Glow plug light should turn on and turn off after a slight delay.
2. Turn off/base/platform (base/off/platform) key switch to “” base position.
3. Start engine by selecting “” start position from start/function enable/emergency power switch.

Base Control Console



- **Test Base Emergency Stop**

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

- **Test Function Enable Switch and All Boom Functions**

**WARNING**

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

1. Do not hold “” function enable switch. Attempt to activate each boom and platform switch.
Result: All boom and platform functions should not operate.
2. Hold “” function enable switch and activate each boom and platform function.
Result: All boom and platform functions should operate as selected.

- **Test Platform Self-leveling**

1. Lower boom to stowed position.
2. Adjust platform to a level position using platform leveling switch.
3. Raise “” and lower “” main boom through a full cycle.
Result: Platform should remain level at all times.

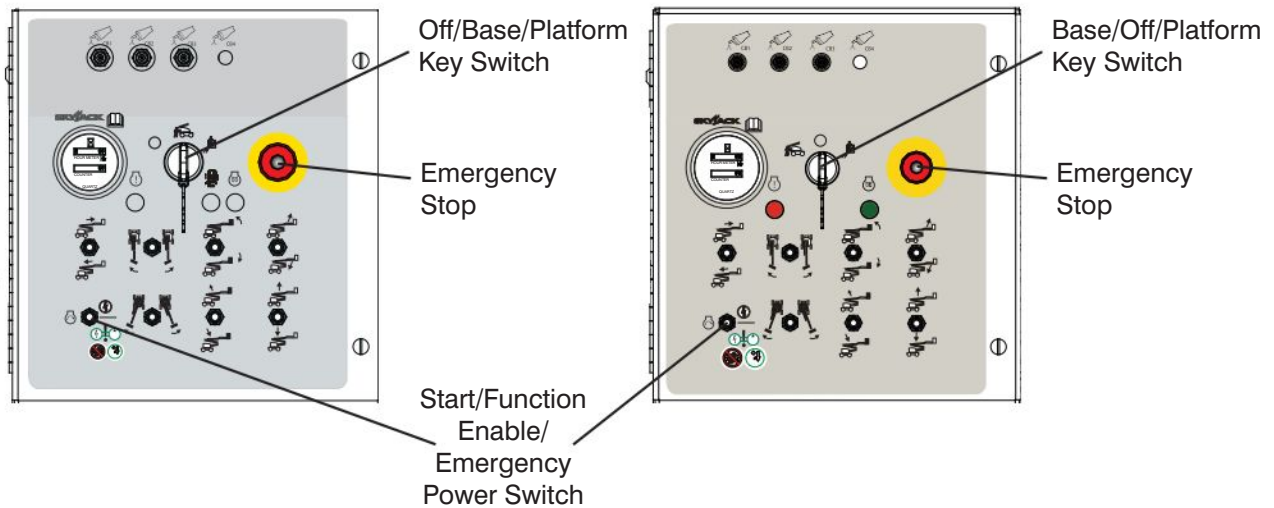
- **Test Emergency Power**

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

**CAUTION**

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

Base Control Console

**NOTE**

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

3. On base control console, pull out “” emergency stop button.
4. On base control console, turn off/base/platform (base/off/platform) key switch to “” platform position.
5. Select “” emergency power position from start/function enable/emergency power switch and activate each boom function.
Result: All selected functions should operate.
6. Turn off/base/platform (base/off/platform) key switch to “” base position.
7. Select “” emergency power position from start/function enable/emergency power switch and activate each boom function.
Result: All selected functions should operate.

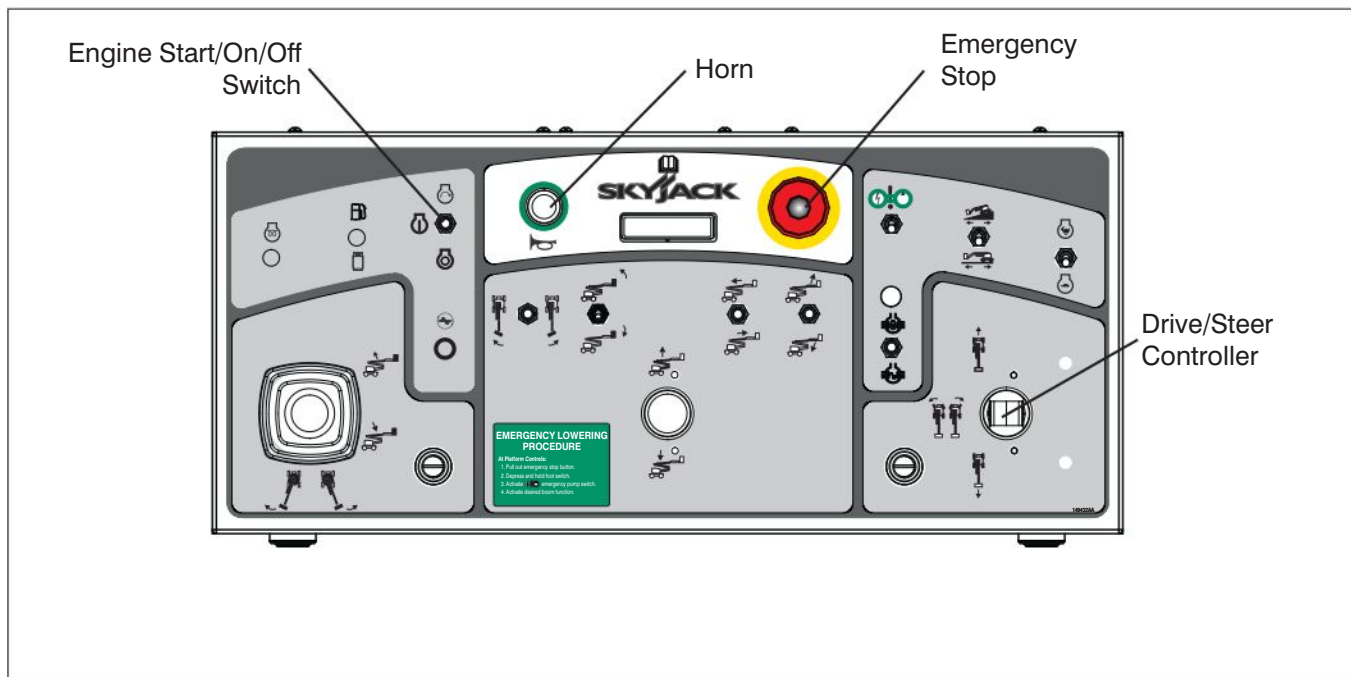
- **Test Off/Base/Platform (Base/Off/Platform) Switch**

1. Ensure both “” emergency stop buttons are pulled out.
Result: Glow plug light should turn on and turn off after a slight delay.
2. Start engine.
3. On base control console, turn off/base/platform (base/off/platform) key switch to “” off position.
Result: Engine should shut down and MEWP functions should not operate.
4. On base control console, turn off/base/platform (base/off/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.
6. On platform control console, select “” on position from engine start/on/off switch.



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

2.4-4 Platform Control Console



WARNING

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

1. Enter platform and close gate.



WARNING

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

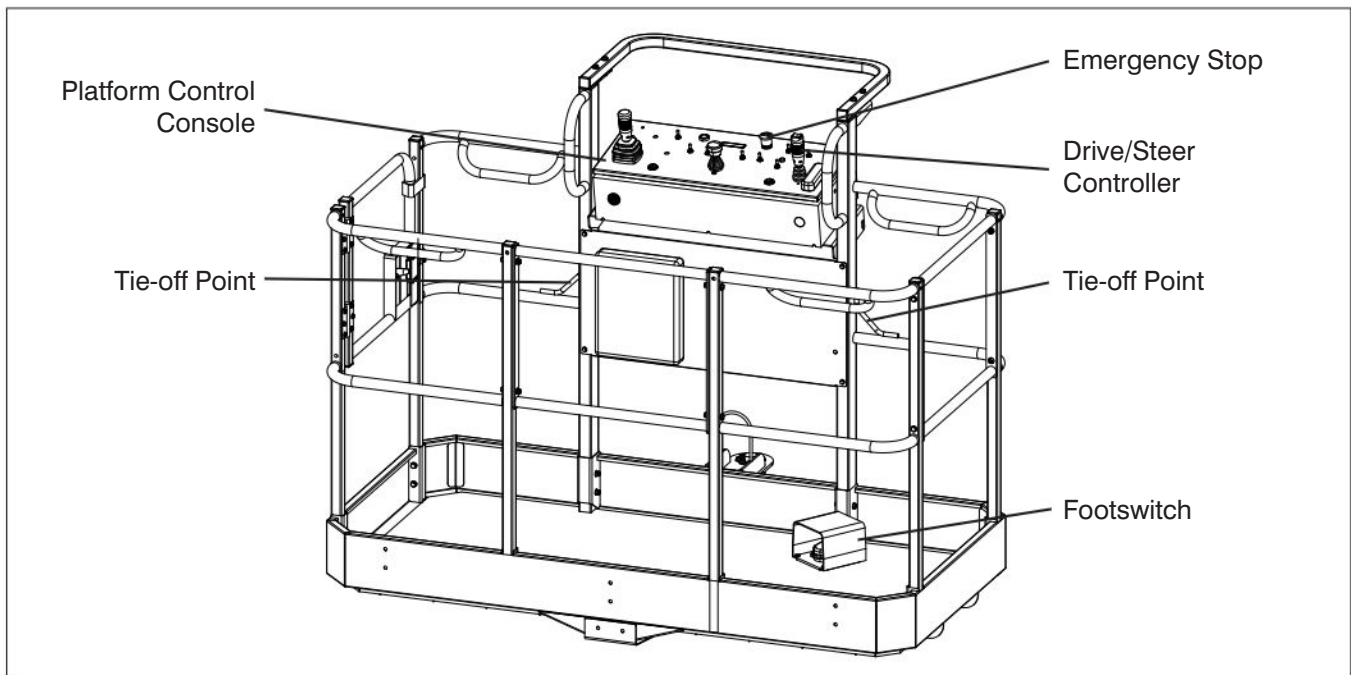


WARNING

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

• Test Platform Emergency Stop Light

1. On platform control console, pull out “” emergency stop button.
Result: Emergency stop light should continuously illuminate.



- **Test Platform Emergency Stop**

1. Start engine by selecting “” start position from engine start/on/off switch.
Result: Engine should start.

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

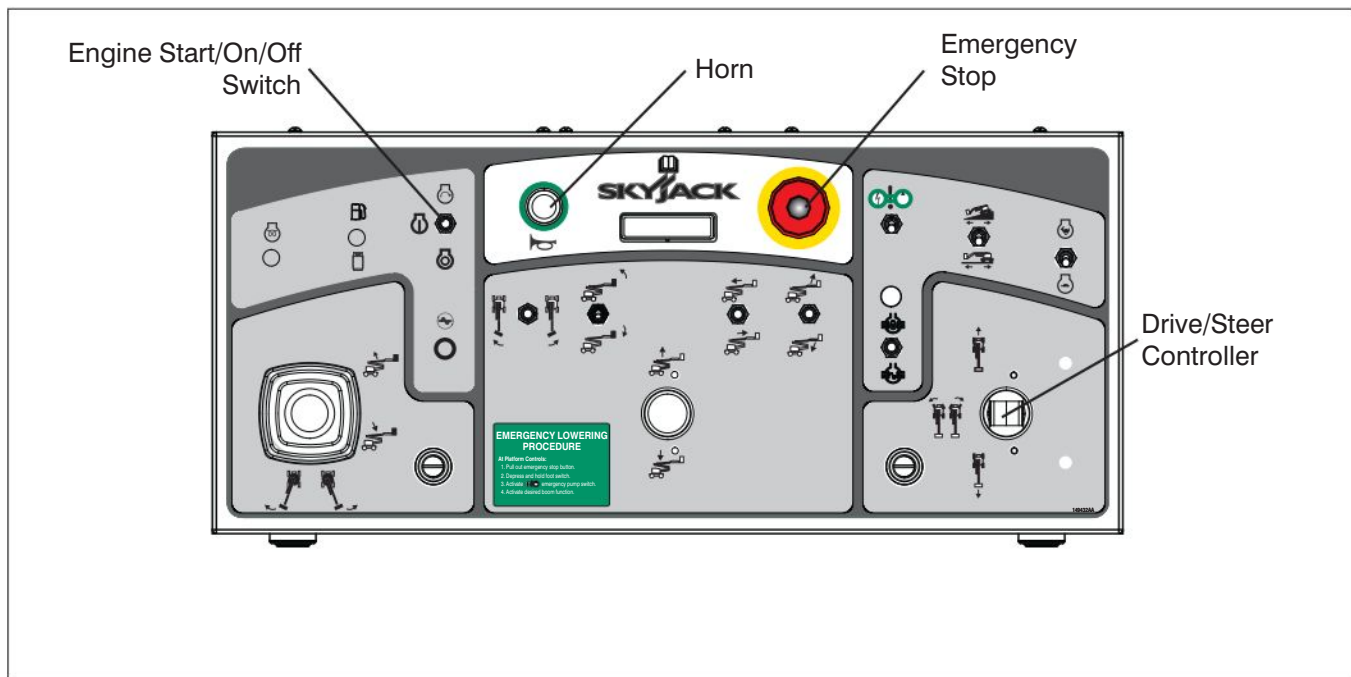
- **Test Footswitch**

1. Pull out “” emergency stop button.
2. Ensure engine start/on/off switch is in “” on position.
3. Do not start engine.
4. 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.
6. Without depressing footswitch, try to start engine.
Result: Engine should start.

7. With engine running and without depressing footswitch, test each boom and platform function.
Result: MEWP functions should not operate.

NOTE

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



- **Test Engine Start/On/Off Switch**

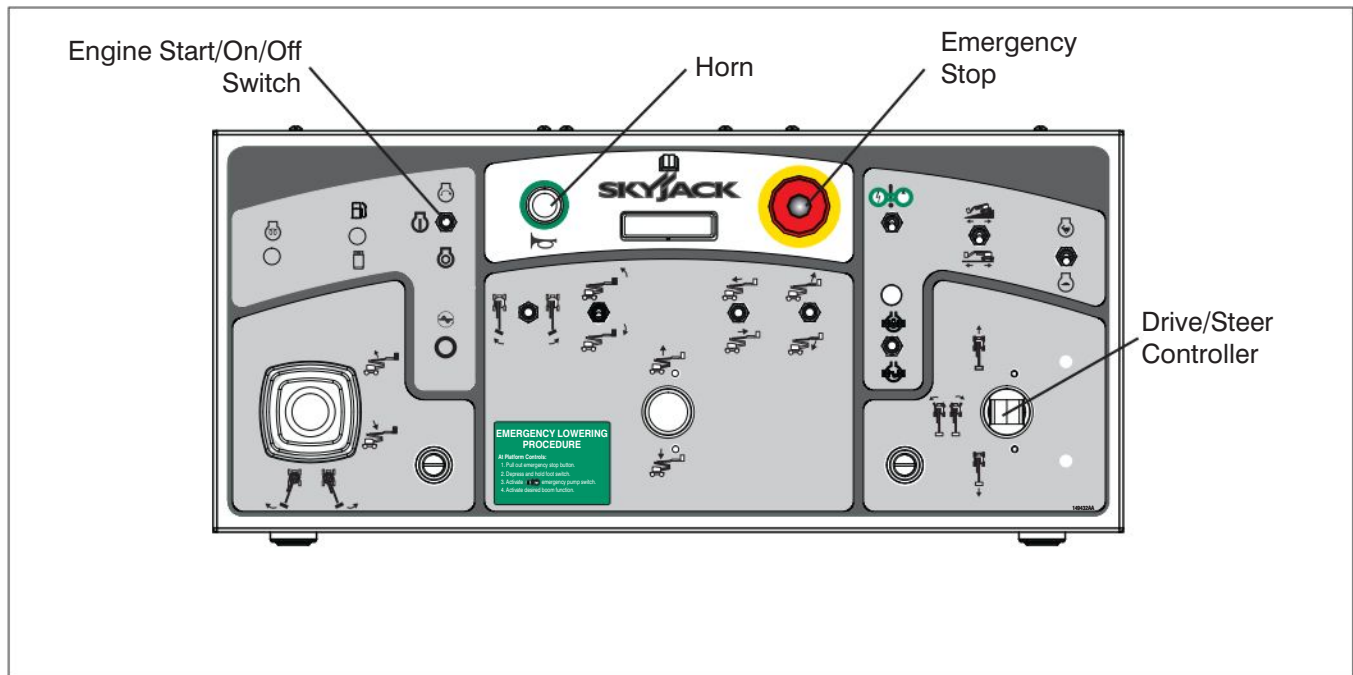
1. Ensure engine is running.
2. Select "⏻" off position from engine start/on/off switch.
Result: Engine should shut down and platform control console is disabled.
3. Select "⏻" on position from engine start/on/off switch.
Result: Platform control console is enabled.

- **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.
4. Press rocker switch on top of drive/steer controller to "⏻" left and "⏻" right.
Result: Steer wheels should turn left and right.

- **Test Driving Function**

1. Ensure path of intended motion is clear.
2. Ensure boom is in stowed position and fly boom fully retracted.
3. Depress and hold footswitch.
4. Slowly move drive/steer controller in "⏻" forward or "⏻" reverse direction until MEWP begins to move, and then return handle to center position.
Result: MEWP should move in forward or reverse direction, and then come to a stop.

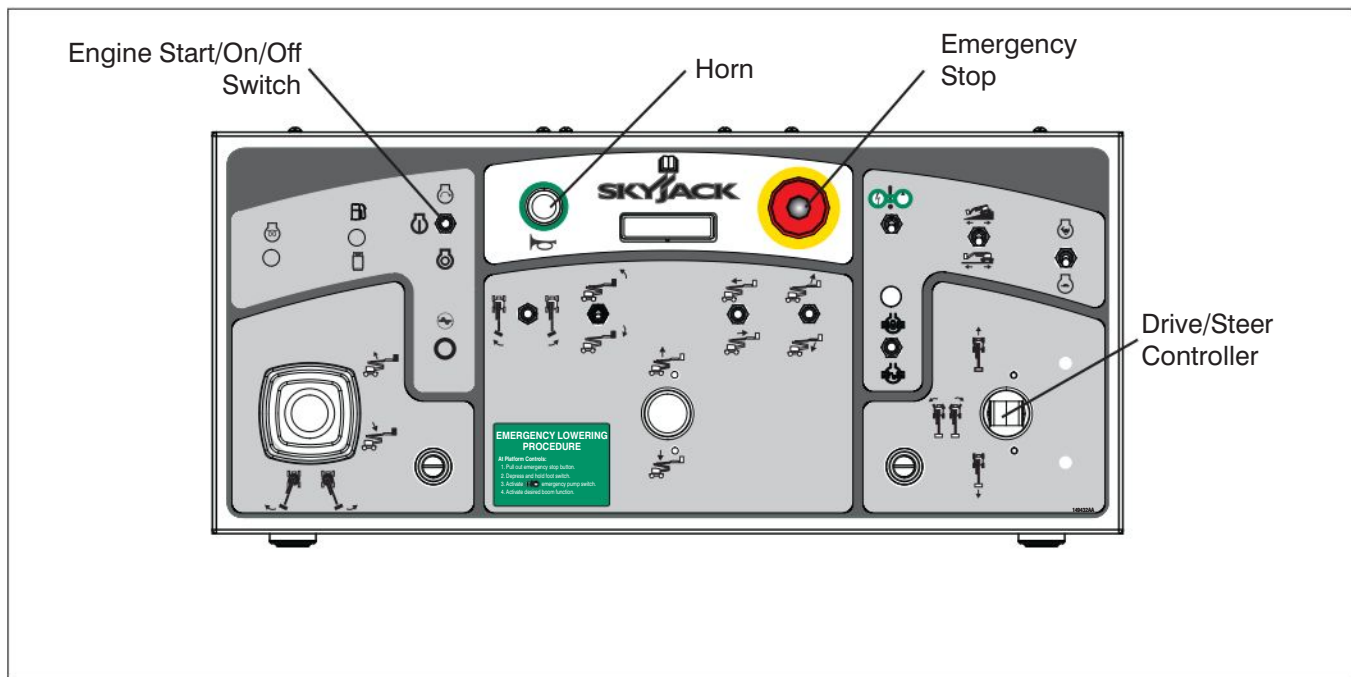


- **Test Driving Speed**

1. Depress and hold footswitch.
2. Raise "  " main boom slightly above horizontal (approximately 5 degrees) and then slowly move drive/steer controller to full drive position.
Result: The maximum achievable drive speed should be significantly less than stowed drive speed.
3. Lower boom to stowed position.
4. Extend "  " fly boom approximately 30 cm (12 inch.) and then slowly move drive/steer controller to full drive position.
Result: The maximum achievable drive speed should be significantly less than stowed drive speed.
5. Retract fly boom.
6. Raise riser until highest point is approximately 1.2 m (4 ft.) above the top of the cowling.
Result: The maximum achievable drive speed should be significantly less than stowed drive speed.

- **Test Load Sensing System**

1. Push in "  " emergency stop button.
2. Pull out "  " emergency stop button.
Result: After four seconds of time elapses, the red light and audible alarm pulse two times. This indicates the system is active and there are no faults.



- Test Emergency Power

**CAUTION**

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

NOTE

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

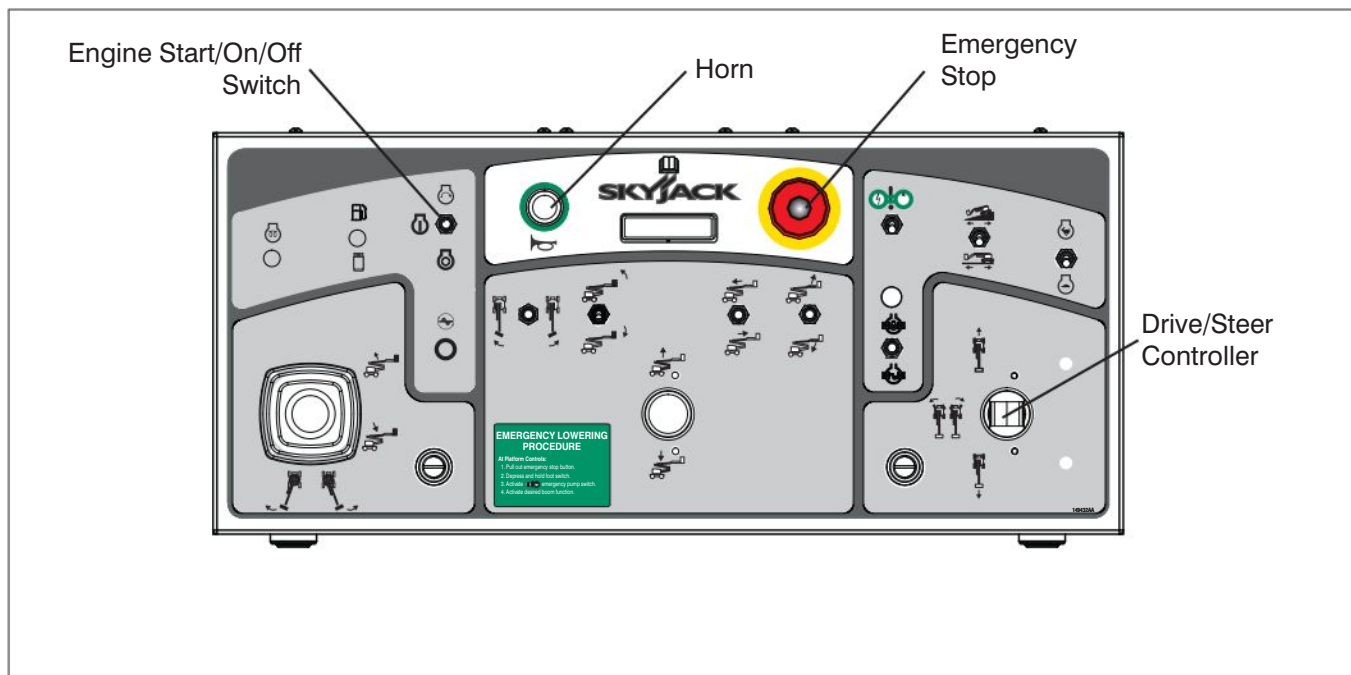
1. On platform control console, push in "⏻" emergency stop button to turn engine off.
2. Pull out "⏻" emergency stop button.
3. Select "I" on position from engine start/on/off switch.
4. Depress and hold footswitch.

5. Select "⚡" from emergency power unit switch and activate each function control handle or switch.

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

- Test Horn

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



- Test Brakes

**WARNING**

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

1. Restart engine.
2. Move MEWP to a firm level surface to ensure similar traction on left and right.
3. Ensure boom is in stowed position.
4. Depress and hold footswitch and drive

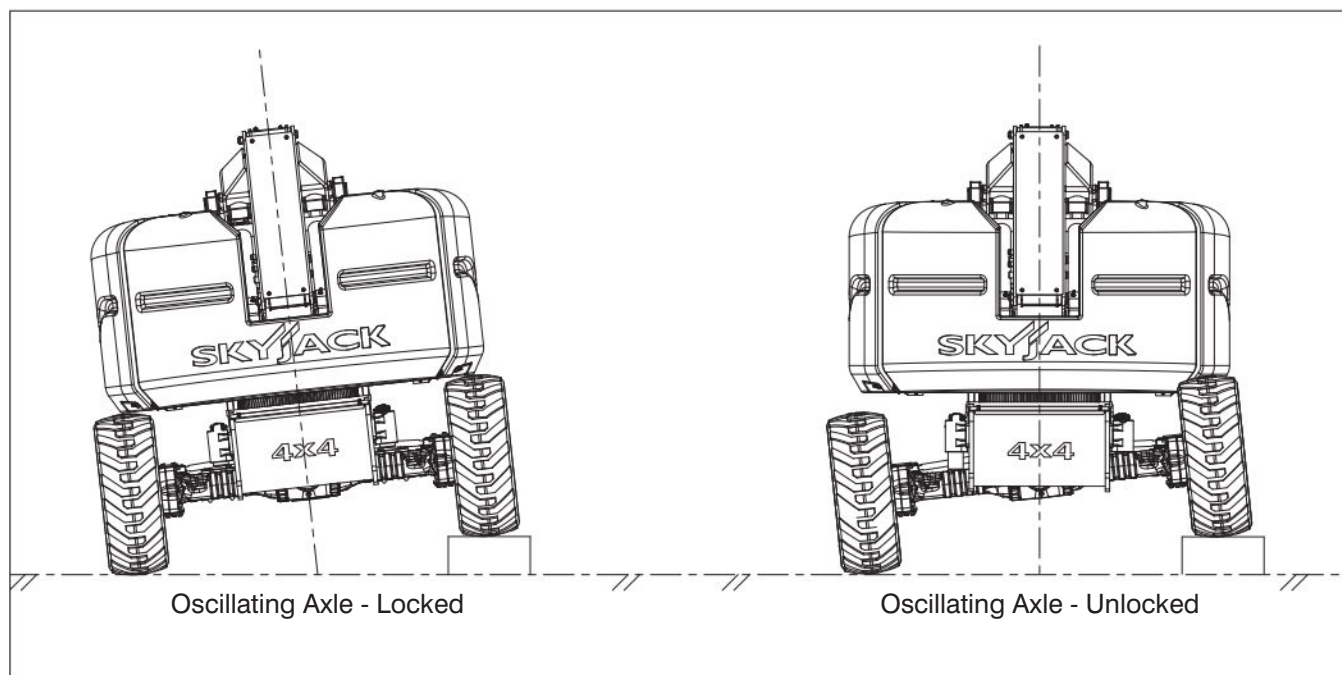
MEWP first “” forward then “” reverse.

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.

- Test Manual Platform Leveling

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

Result: Platform should tilt up or down.



- Test Differential Lock Switch



WARNING

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 3](#) for operation.

- Test Oscillating Axles



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!

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

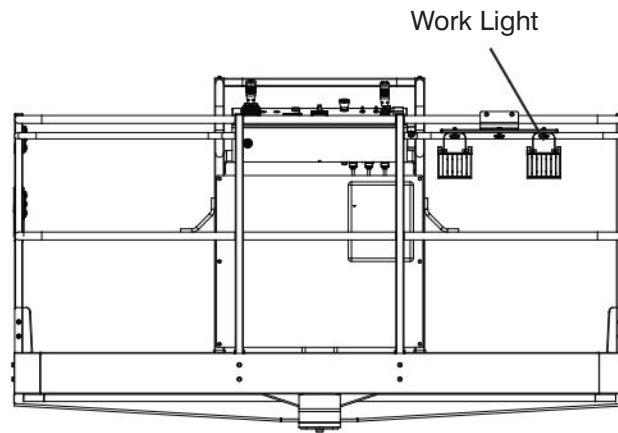
Result: The steer axles should be locked.

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

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

3. Retract fly boom while in tilt position.

Result: The steer axles should unlock and the MEWP chassis should level itself to ground.



2.4-5 Optional Equipment/Attachments

- **Test Work Light (If Equipped)**

1. Select the on/off switch located on the back of the light housing and switch it to the on position.
Result: The light should turn on.
2. Turn the switch to the off position. Push in platform “” emergency stop button.
3. Dismount the platform.



WARNING

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

- **Test All Motion Alarm (If Equipped)**



WARNING

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

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

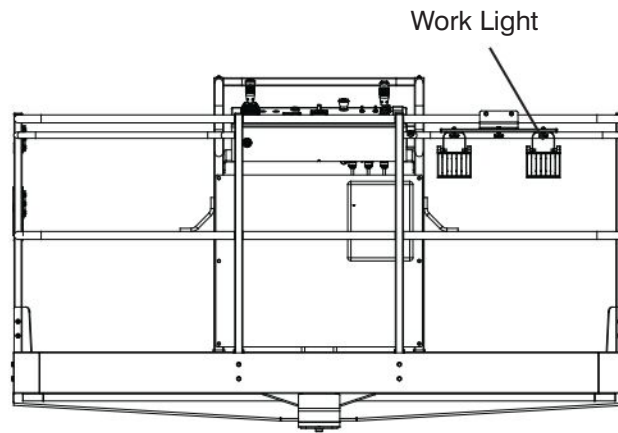
3. Stop all platform motion.
Result: Alarm should stop.

NOTE

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

- **Test Flashing Amber Light (If Equipped)**

1. Ensure path of intended motion is clear.
2. Activate any drive or lift functions.
Result: Light should flash.
3. Stop all platform motion.
Result: Light should stop flashing.



- **Test Hydraulic Generator (If Equipped)**
 1. Ensure engine is running.
 2. On platform control console, turn generator on/off switch to “” on position.
Result: Engine will automatically switch to high throttle and generator will start.
 3. On platform control console, turn generator on/off switch to “” off position.
Result: The generator will turn off and throttle will return to selected speed.

NOTE

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

2.5 Winching and Towing Procedure

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



WARNING

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



WARNING

In emergency situations where MEWP functions are not available and lowering is impeded by an obstacle, utmost care must be taken to move MEWP far enough to clear obstacle. In such cases, operation must be extremely smooth with no sudden movements and must not exceed a speed of 2 in./sec (50 mm/sec).



WARNING

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



WARNING

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



WARNING

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

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 using the following steps:

NOTE

Brakes must be manually disengaged for winching or towing.



WARNING

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

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



CAUTION

Do not use hydraulic power with brake disengaged.

- c) Locate the bypass valve on the inboard side of the drive pump. Bypass the drive pump by rotating the valve stem (item 1 - marked with yellow paint) by 90 degrees (clockwise).

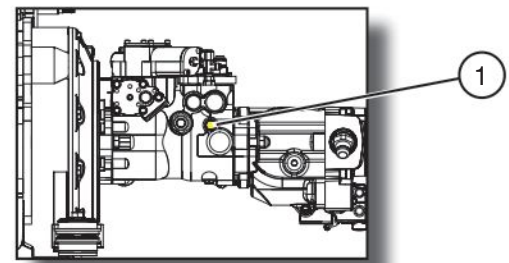


Figure 2-7. Drive Bypass Valve



CAUTION

Do not release brakes before disengaging drive motor!

- d) Push in black brake valve plunger (item 3).

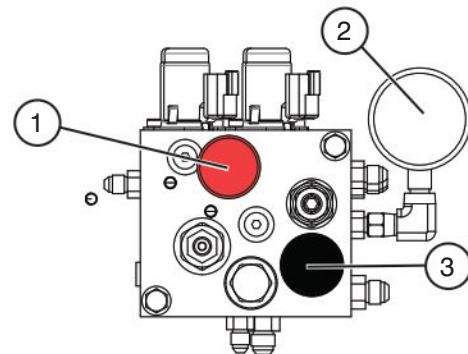


Figure 2-8. Brake Manifold

- e) 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.

**WARNING**

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

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

NOTE

Brakes automatically apply when platform controls are engaged.

**WARNING**

Brakes must be applied immediately after reaching desired location.

2.6 Emergency Lowering Procedures

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



WARNING

Do not operate emergency power unit if platform capacity is exceeded. The emergency power unit may be used to release the platform from an obstruction that has triggered an overload condition.

At Base Control Console:

1. Ensure engine is off.
2. Pull out “” emergency stop button.
3. Select either “” base position or “” platform 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 “” on position from engine start/on/off switch.
4. Depress and hold footswitch.
5. Select “” from emergency power unit switch and activate desired boom function.

NOTE

If platform is overloaded in work mode, emergency lowering is only available from base controls.

3.0 Operation

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

3.1 General

In order for this MEWP to be in good working condition, it is important that the operator meets the necessary qualifications and follow the maintenance and inspection schedule referred to in this section.

3.1-1 Operator Qualifications

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

3.1-2 Operator's Responsibility for Maintenance



WARNING

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

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

- The operator must be sure that the MEWP has been properly maintained and inspected before using it.
- The operator must perform all the daily inspections and function tests found in [Table 4.7](#), even if the operator is not directly responsible for the maintenance of this MEWP.

3.1-3 Maintenance and Inspection Schedule

- The inspection points covered in [Table 4.7](#) indicate the areas of the MEWP to be maintained or inspected and at what intervals the maintenance and inspections are to be performed.
- The actual operating environment of the MEWP may affect the maintenance schedule.



WARNING

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

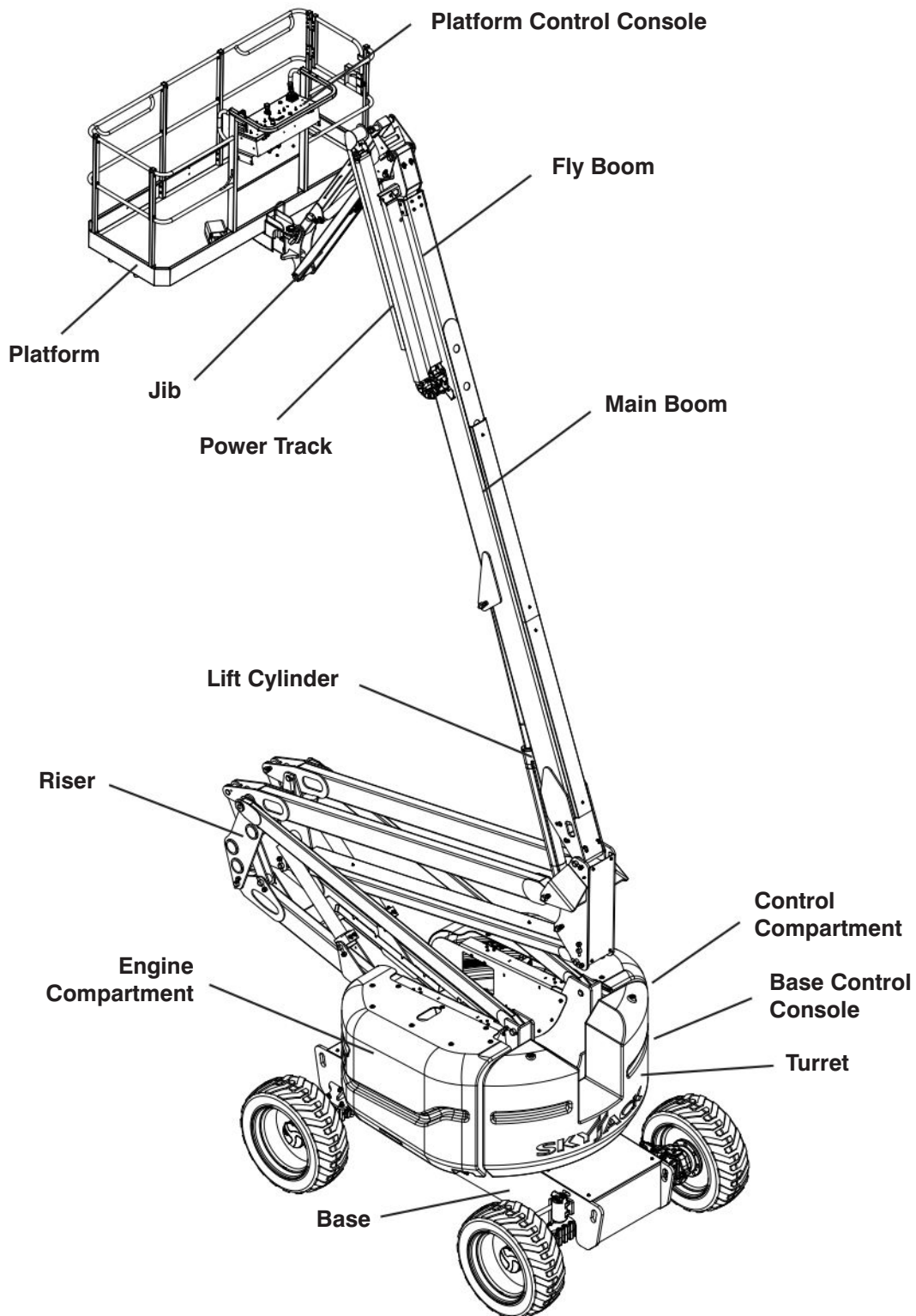
3.1-4 Owner's Inspections

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

NOTE

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

3.2 Major Components



SKYJACK Articulating Boom

3.3 Major Assemblies

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

3.3-1 Base

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

3.3-2 Turret

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

3.3-3 Boom Assembly

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

3.3-4 Platform

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

3.4 Serial Number Nameplate

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

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

3.5 Component Identification

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

3.5-1 Manual Storage Box

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



3.5-2 All Motion Alarm (If Equipped)

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

3.5-3 AC Outlet on Platform (If Equipped)

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

3.5-4 Turret Transportation Lock

This locking device is located in the turret.

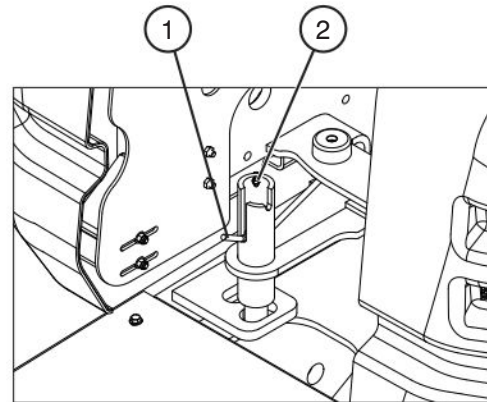


Figure 3-1. Turret Transportation Lock

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

Refer to [Section 3.11-2](#) for procedure on how to lock the turret.

3.6 Component Identification (Optional Equipment/Attachments)

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

3.6-1 Cold Weather Start (If Equipped)

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

3.6-2 Work Light (If Equipped)

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

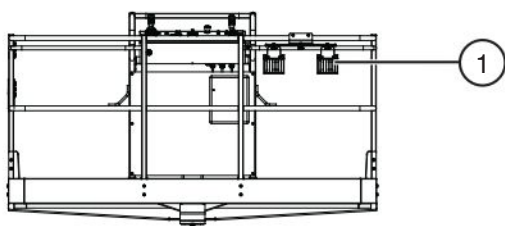


Figure 3-2. Work Light

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



WARNING

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

3.6-3 Flashing Amber Light (If Equipped)

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

NOTE

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

3.7 Operator's Responsibility

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

1. Visual and Daily Maintenance Inspections

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



WARNING

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

2. Function Tests

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

IMPORTANT

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

The operator should make a copy of the Operator's Checklist (see [Table 4.8](#)) and fill out the visual and daily maintenance inspections and the function tests sections while performing the items outlined in [Section 2.3](#) and [Section 2.4](#).

IMPORTANT

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

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

Scheduled maintenance inspections shall only be performed by qualified service technician (see [Table 4.7](#)).

3. Cold Weather Hydraulic System Warm Up



WARNING

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



CAUTION

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

Boom Functions:



WARNING

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

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

Drive Functions:



WARNING

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

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

3.8 Start Operation

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



WARNING

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

Before operating this MEWP, perform the following steps:

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



WARNING

An operator should not use any MEWP that:

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

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

3.8-1 To Activate Base Control Console



WARNING

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

1. Enter platform and close gate.
2. On platform control console, pull out “” emergency stop button.
3. In engine compartment, turn main power disconnect switch to “I” on position.
4. On base control console, turn off/base/platform (base/off/platform) key switch to “” base position.
5. Pull out “” emergency stop button.
6. Select “” start position from start/function enable/emergency power switch until engine starts.



WARNING

DO NOT over crank the starter. If engine fails to start after multiple attempts, contact a Service Technician.



CAUTION

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

3.8-2 To Rotate Platform Using Base Control Console

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

3.8-3 To Rotate Turret Using Base Control Console



WARNING

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

1. Activate and hold function enable switch “” by pushing it to the right.
2. Push turret rotation switch to either “” clockwise or “” counterclockwise position. Release switch to stop.

NOTE

Turret can be rotated continuously 360 degrees.

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

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

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

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

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

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

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

1. Activate and hold function enable switch “” by pushing it to the right.
2. Push fly boom extend/retract switch to either “” extend or “” retract position. Release switch to stop.

3.8-8 To Level Platform Manually Using Base Control Console

1. Activate and hold function enable switch “” by pushing it to the right.
2. Push platform leveling override switch to either “” up or “” down position. Release switch to stop.

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

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

3.8-10 To Activate Platform Control Console

1. In engine compartment, turn main power disconnect switch to “I” on position.
2. On base control console, turn off/base/platform (base/off/platform) key switch to “” platform position.
3. On base control console, pull out “” emergency stop button.



WARNING

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



WARNING

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

4. Enter platform and close gate.
5. Attach body harness lanyards of each occupant to platform lanyard rings.

6. On platform control console, pull out “” emergency stop button.
7. Push and hold “” start position from start/on/off switch until engine starts.



WARNING

DO NOT over crank the starter. If engine fails to start after multiple attempts, contact a Service Technician.

NOTE

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

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



WARNING

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

3.8-11 To Drive Forward or Reverse

**CAUTION**

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

1. Depress and hold footswitch.
2. Push and hold drive/steer controller in this

direction “” to drive forward or “” to drive backward.
3. Release controller handle to stop.

**CAUTION**

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.

**CAUTION**

When driving on a slope:

- Torque Switch **MUST** be in high torque mode.
- **DO NOT** exceed the rated gradeability listed in [Table 4.2a](#).
- Ensure fuel level is above half to avoid a possible stall condition.

3.8-12 To Steer

1. Depress and hold footswitch.
2. 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.

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

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

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

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

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

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

3.8-16 To Rotate Platform Using Platform Control Console

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

3.8-17 To Level Platform Manually Using Platform Control Console

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

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

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

3.8-19 To Sound Horn

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

3.8-20 To Rotate Turret Using Platform Control Console**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 “” to rotate counterclockwise.
3. Release controller handle to stop.

NOTE

Turret can be rotated continuously 360 degrees.

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

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

3.8-22a To Engage Differential Lock Switch

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

3.8-22b To Disengage Differential Lock Switch

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

NOTE

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

3.8-23 Hydraulic Generator (If Equipped)**To start hydraulic generator:**

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

To restore normal operation:

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

NOTE

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

3.8-24 Shutdown Procedure

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

For MEWP with cold weather start option:

NOTE

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

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

3.9 Refueling Procedure

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



WARNING

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

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



WARNING

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



CAUTION

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.

3.9-1 Regular Fuel (Diesel)

IMPORTANT

Use unleaded gasoline only.

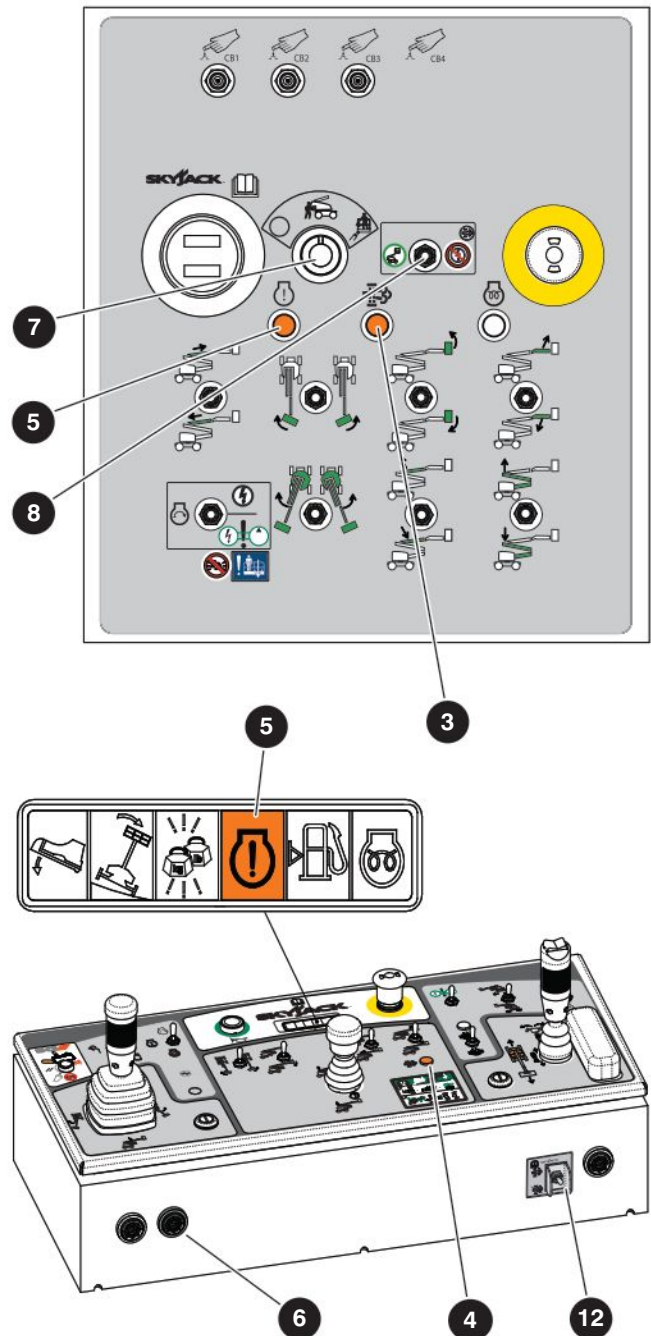
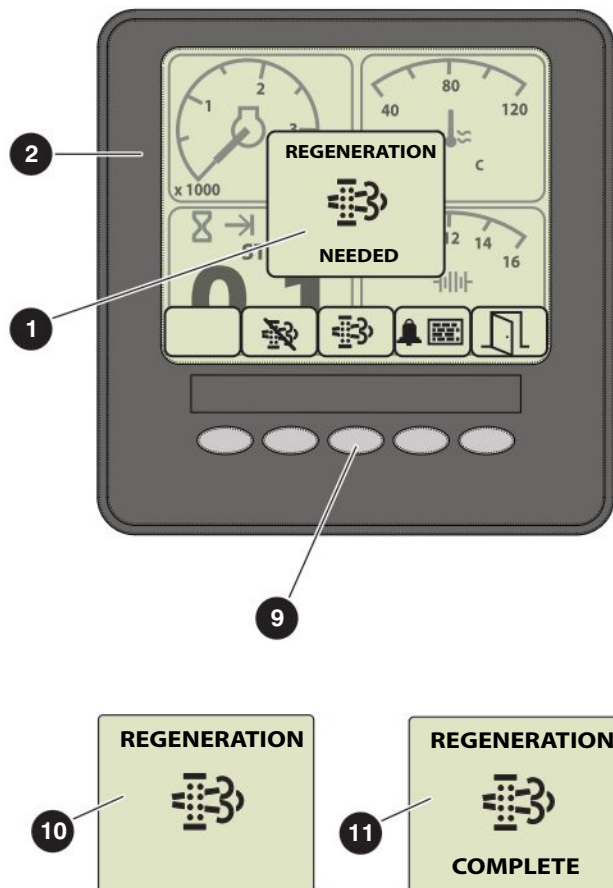
1. Ensure engine and all systems are turned off and emergency stop buttons are depressed.
2. Open control compartment and remove fuel cap.
3. Carefully fill the fuel tank ensuring that no spillage occurs.
4. Secure fuel cap.
5. Ensure there are no leaks in fuel system.
6. Wipe up any spilled fuel.
7.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

3.10 Diesel Particulate Filter (DPF) and Standstill Regeneration - Deutz TCD2.2 Engine

3.10-1 About the DPF and Standstill Regeneration

The DPF system is a closed diesel particulate filter system that accumulates the soot during the operation of the engine to reduce diesel particulate emissions.

As soon as the soot load reaches 100%, the system triggers a standstill regeneration request. The request is issued and displayed **1** on the screen of the Deutz engine display module **2** (located below the engine control console) and indicated by the flashing standstill lamps on the base **3** and platform **4** controls.



3.10-2 Standstill Stages

Standstill Lamps  3 4	Engine Lamp  5	Audible Alarm  6	Engine Torque	Action Required
Flashes slowly	Off	Pulsates slowly	100%	Perform the standstill operation at the next available opportunity, within 3 to 4 hours.
Flashes slowly	On	Pulsates slowly	75%	The standstill operation must be performed immediately.
Flashes quickly	Flashes	Pulsates quickly	40%	The standstill operation is no longer possible with on-machine controls. Contact an authorized repair facility.
Flashes quickly	Flashes	Pulsates quickly	40%	Failure to perform the standstill has resulted in the diesel particulate filter failure, and regeneration is no longer possible. Contact an authorized repair facility to replace the filter.

3.10-3 Perform the Standstill Regeneration

1. Move the MEWP to an open, well-ventilated area, away from any flammable material. Park it on a firm level surface, and fully stow the MEWP.
2. With the engine running, turn the off/base/platform switch  7 on the base controls to the base position.
3. Activate the standstill regeneration by moving the standstill switch  8 on the base controls to the on position. Base functions become inoperative when the standstill switch is turned on.
4. On the engine display module  2 press and hold the middle button  9 (below the regeneration symbol) for 3 seconds.

**WARNING**

Do not touch hot engine components. Touching hot surfaces may cause serious injury.

5. The engine display module changes to the Regeneration Ongoing symbol  10, the standstill lamps turn solid, and the engine speed may change.
6. Standstill usually takes 35 to 40 minutes. During this time, the MEWP must not be used.

IMPORTANT

The standstill must be completed fully. If the process is interrupted, the standstill request continues.

7. When the standstill is complete, the Regeneration Ongoing symbol changes to Regeneration Complete  11, the standstill lamps  3  4 turn off, and the engine speed returns to normal.
8. Move the standstill switch to the off position. The MEWP may now be used normally.

IMPORTANT

If equipped, the derate override switch  12 on the front of the platform control box should only be used when absolutely necessary to move the MEWP to park it in a safe location when the derated engine torque/rpm prevents adequate torque to drive the MEWP. It will temporarily (for approximately 30 minutes) restore full engine power and speed. Be aware that use of the derate override switch may result in diesel particulate filter failure.

3.11 Loading/Unloading

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

Only qualified personnel shall operate MEWP during loading/unloading.

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

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

3.11-1 Loading and Tie-down

1. Lock turret using turret transportation lock (refer to [Section 3.11-2](#)).
2. Turn key switch to “○” off position and remove key before transporting.

3. Turn main power disconnect switch to “○” 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 3-3](#)).
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.



WARNING

Inspect MEWP for loose or unsecured items.

NOTE

For loading and unloading using a winch line, refer to [Section 2.5](#).

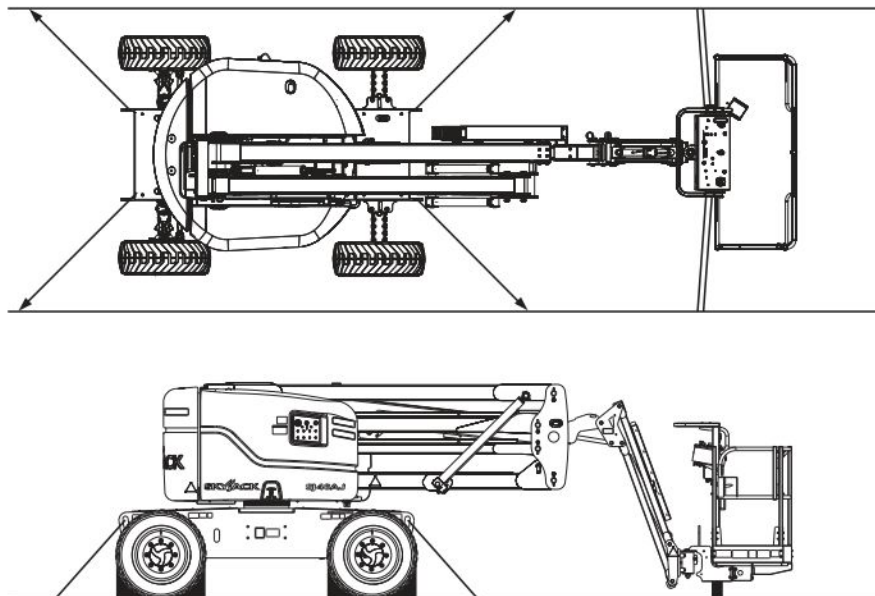


Figure 3-3. Tie-down Points

3.11-2 Locking the Turret

1. Ensure that turret is positioned so that turret transportation lock tube (item 1 - Figure 3-4) is aligned into one of two turret locking points in the turret rotation lock plate.
2. Pull out turret lock retaining pin (item 2 - Figure 3-4). Lower turret lock into locked position and reinsert turret lock retaining pin.

3.11-3 Lifting

NOTE

When it becomes necessary to lift MEWP, it is very important that lifting devices are attached only to designated lifting points (refer to Figure 3-5).

**WARNING**

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

1. Place boom in stowed position centered between drive wheels. Lock turret using turret transportation locking pin (refer to Section 3.11-2) into the transport point (refer to Figure 3-4).
2. Turn main power disconnect switch to “○” off position.
3. Remove all loose items from MEWP.
4. Properly adjust rigging to prevent damage to MEWP and so MEWP remains level.

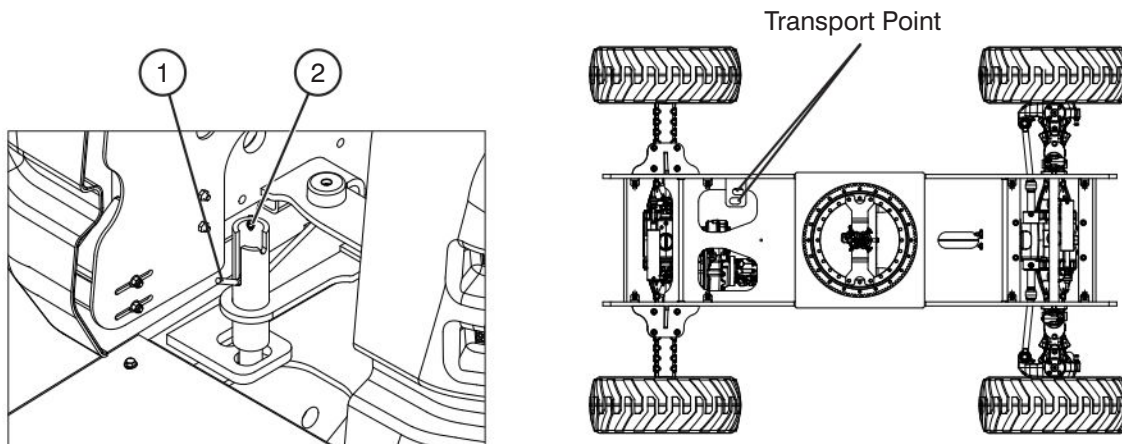


Figure 3-4. Turret Transportation Lock & Locking Points

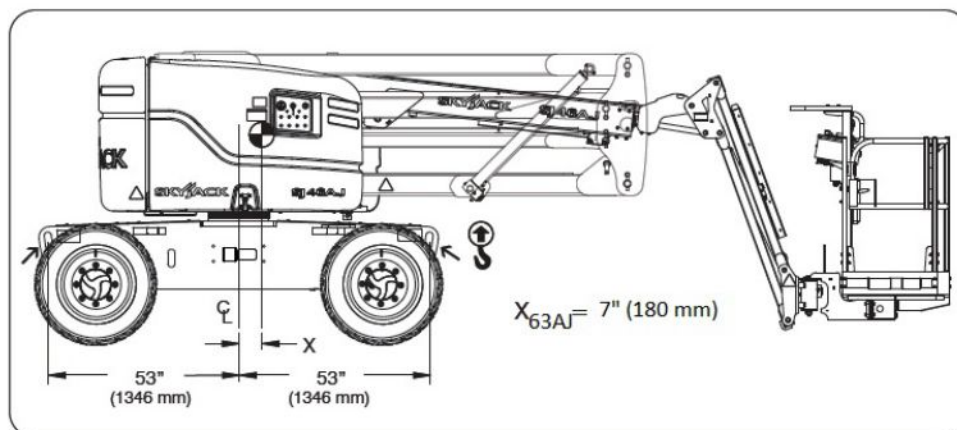


Figure 3-5. Lifting Points

NOTE: Center of gravity varies with different options.

3.12 Chassis Tilt

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

IMPORTANT

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



WARNING

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

3.12-1 Platform Uphill

If the MEWP becomes tilted with the platform uphill (refer to [Figure 3-6](#)) 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.

3.12-2 Platform Downhill

If the MEWP becomes tilted with the platform downhill (refer to [Figure 3-7](#)) follow the steps below to return to a lowered and retracted position.

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

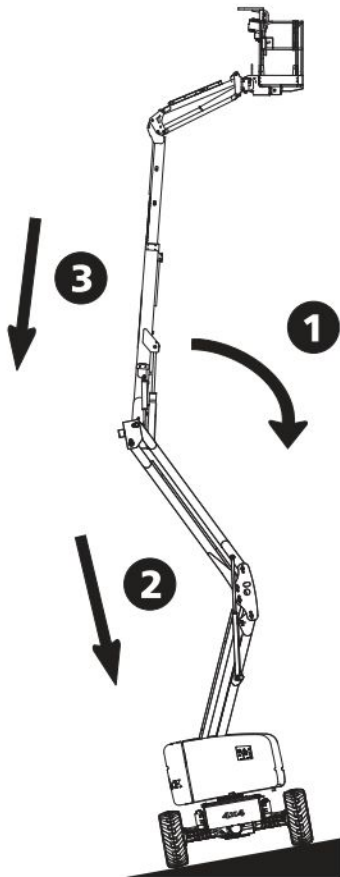


Figure 3-6. Platform Uphill

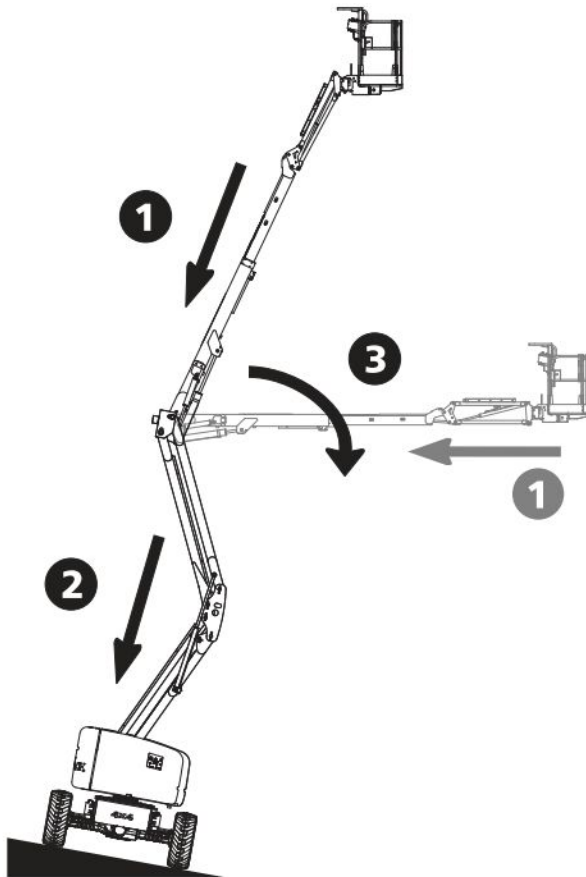


Figure 3-7. Platform Downhill

Diagram 3.1 Dimension and Reach Diagram - SJ 63AJ

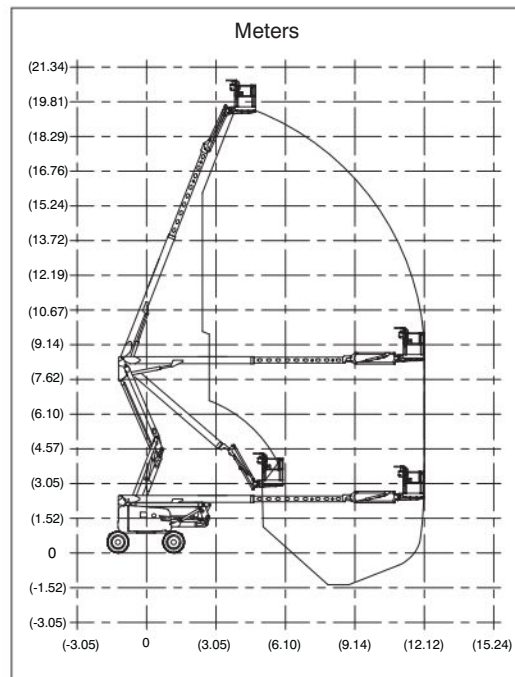


Figure 3-8. Reach Diagram - 63AJ

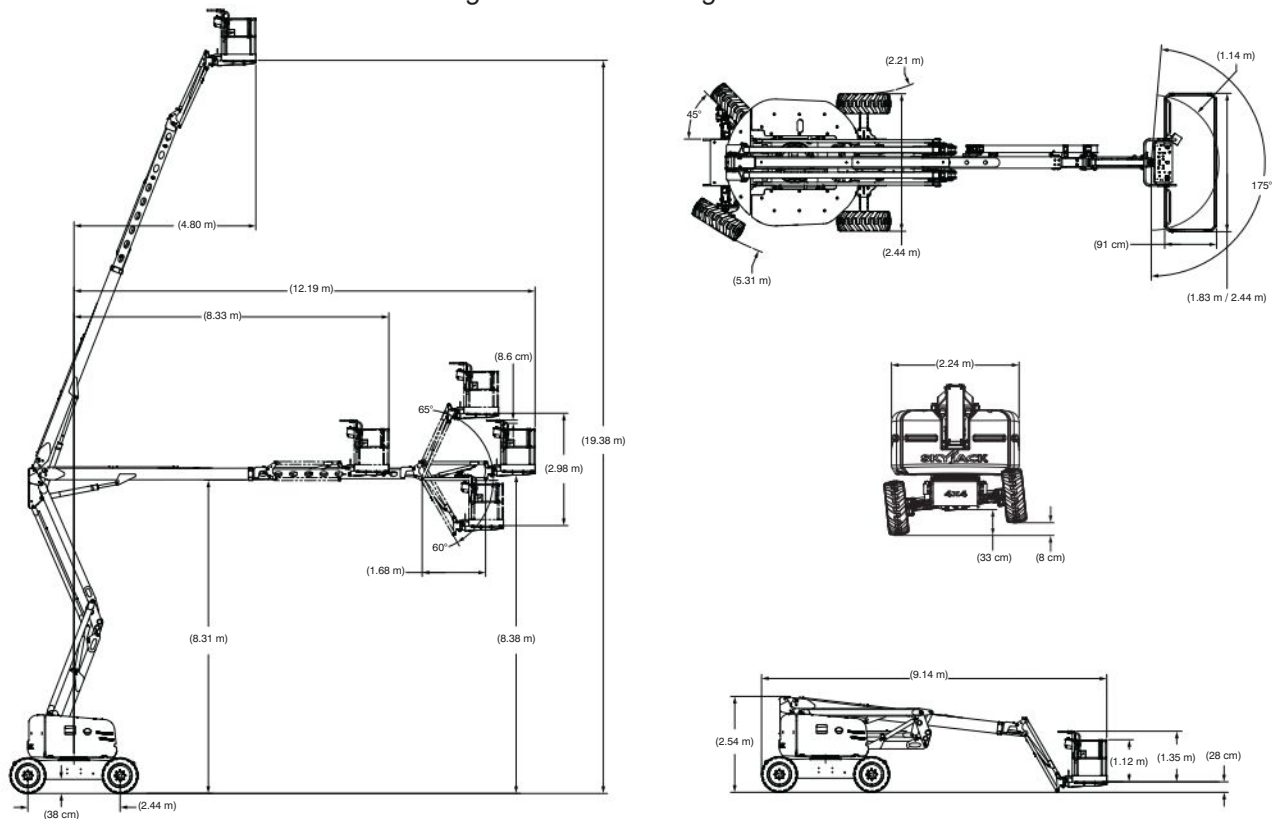
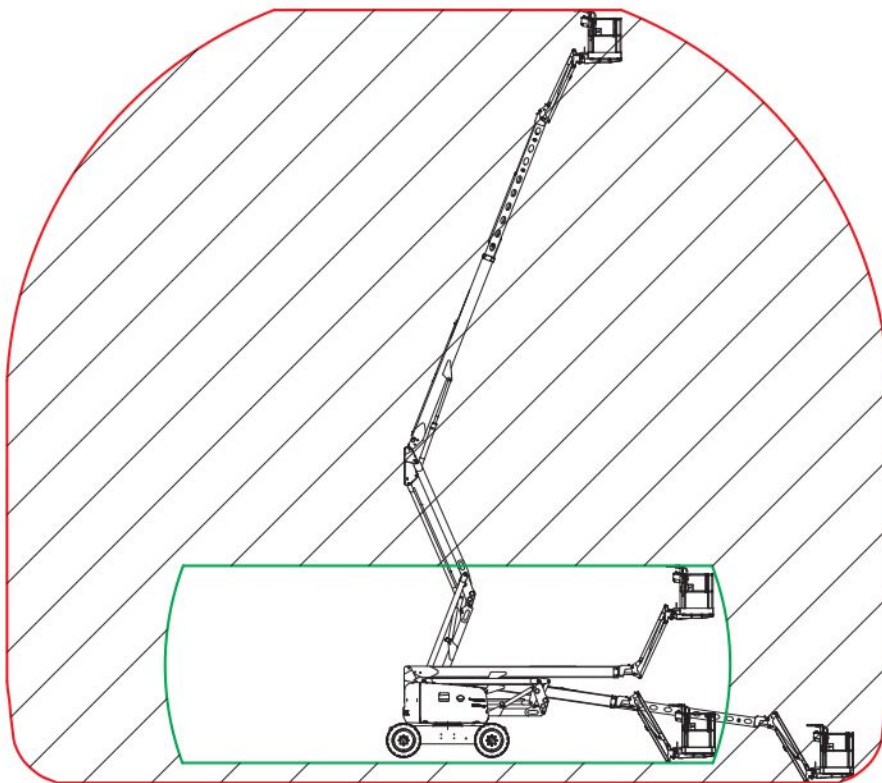


Figure 3-9. Dimension - 63AJ

Diagram 3.2 Axle Oscillation Diagram

**WARNING**

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



-  Axle oscillation free (travel mode) - drive speed 7.7 km/h (4.8 mph) max.
-  Axle oscillation locked (work mode) - drive speed 0.8 km/h (0.5 mph) max.

Figure 3-10. Axle Oscillation

Table 4.1 Standard and Optional Features

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

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Table 4.2a Specifications and Features

MODEL		SJ63AJ
Platform Size	Total platform length (outside)	183 cm/ 244 cm
	Total platform width (outside)	91 cm
Height	Working	21.38 m
	Platform elevated	19.38 m
	Drive	Driveable at all heights
	Turret	2.54 m
Length	Overall with platform	9.14 m
	Base and tires	3.38 m
Width	Outside std. tires	2.44 m
	Turret	2.24 m
Weight	Weight (with foam-filled tires)	10,200 kg
Platform rotation		175 degrees
Horizontal reach		12.19 m
Horizontal reach @ maximum height		4.80 m
Wheelbase		2.44 m
Turret rotation		360 degrees continuous
Turret tailswing		0 cm
Gradeability		45%
Ground clearance between wheels		33 cm
Turning Radius	Inside	2.21 m
	Outside	5.31 m
Battery	System voltage	12V DC
	Type	Lead/Acid
	Cold cranking amperes	925A
Operating Times	Main boom up	26 - 34 seconds (approx.)
	Main boom down	26 - 34 seconds (approx.)
	Riser boom up	23 - 31 seconds (approx.)
	Riser boom down	23 - 31 seconds (approx.)
	Fly boom extend	26 - 34 seconds (approx.)
	Fly boom retract	30 - 38 seconds (approx.)
	Jib up	17 - 23 seconds (approx.)
	Jib down	15 - 21 seconds (approx.)
	Turret rotate - counterclockwise 360° (fully stowed)	109 - 135 seconds (approx.)
	Platform rotate - full	7 - 15 seconds (approx.)
Driving Speeds	Drive speed (maximum-stowed)	7.3 km/h
	Drive speed (maximum-elevated)	0.8 km/h

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Table 4.2b Specifications and Features

MODEL				SJ 63AJ		
Engine - Deutz	Engine Type			Deutz TD2.9	Deutz D2011L04i	Deutz TCD2.2
	Fuel Type			Diesel EN590		Diesel
	Fuel Tank Capacity			120 L		114 L
	Standard Oil Factory Fill	Ambient Temperature Limits	0°F to 115°F (- 18°C to +45°C)	SAE 15W-40 API CF/CG/CH-6		
	Cold Lube Oil Option		- 20°F to 90°F (- 29°C to +32°C)	SAE 5W-40 API CF/CG/CH-6		N/A
	Arctic Lube Oil Option		- 40°F to 115°F (- 40°C to +45°C)	SAE 0W-40 API CF/CG/CH-6		N/A
	Approved Alternates		-	See Engine Manual		
	Lube Oil Sump Capacity			9 L		8 L
	Radiator Capacity			13 L	N/A	N/A
	Radiator Fluid Type			DELO ELC 50/50	N/A	N/A
Hydraulic Oil	Hydraulic Cooler Option	Ambient Temperature Limits	100°F to 115°F (+38°C to +45°C)	Oil cooler option recommended		
	Standard Oil Factory Fill		-15°F to 100°F (-26°C to +38°C)	Shell Tellus T46		
	Arctic Oil Option		- 40°F to 100°F (- 40°C to +38°C)	Esso/Mobil UNIVIS HVI 26 Petro-Canada HYDREX EXTREME		
	Approved Alternates		-15°F to 100°F (-26°C to +38°C)	Mobilfluid 424, Esso UNIVIS N46, Chevron Rycon MV		
			- 40°F to 80°F (- 40°C to +27°C)	Mobil DTE 13M, Esso UNIVIS N22 Petro-Canada HYDREX MV Arctic 15		
	Hydraulic Tank Capacity			115 L		
	Sound Pressure Level (ISO 3744)			80dB(A)		
Guaranteed Sound Power Level (ISO 4871)			112dB			
Vibration acceleration to which operator's body is subjected does not exceed 0.5 m/s ² .						

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Table 4.3 Owner's Annual Inspection Record

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

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This decal is located on the control compartment cowling. It must be completed after an annual inspection has been completed. Do not use the aerial platform if an inspection has not been recorded in the last 6 months.

	Pictorial	Description
*		Inspection Date
**		Inspector Signature

Table 4.4 Tire/Wheel Specifications

	SJ 63AJ
Tire Size	35.5 x 44.5 cm
Type	Foam Filled
Tire Ply Rating	14
Wheel Nuts Torque	393 Nm

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IMPORTANT

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

Table 4.5 Maximum Platform Capacities

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

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*

NOTE

Beaufort scale 6 - Tree branches move. Power lines whistle. It is difficult to open an umbrella.

Table 4.6 Floor Loading Pressure

MODEL	Gross Aerial Platform Weight	Total Aerial Platform Load		
		Wheel	LCP	OUP
	kg	kg	kPa	kPa
SJ 63AJ (Standard configuration)	10,427	5,080	1,195	12.4

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- Standard Configuration = 4WD + Oscillating Axle + 35.5 x 44.5 cm Foam Tires
- Gross Aerial Platform Weight = Weight + platform capacity
- LCP – Locally Concentrated Pressure – is a measure of how hard the aerial platform tire tread presses on the area in direct contact with the floor. The floor covering (tile, carpet, etc.) must be able to withstand more than the indicated values above.
- OUP – Overall Uniform Pressure – is a measure of the average load the aerial platform imparts on the whole surface projected directly underneath it. The structure of the operating surface (beams, etc.) must be able to withstand more than the indicated values above.

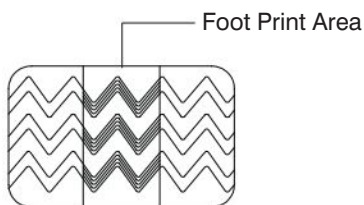
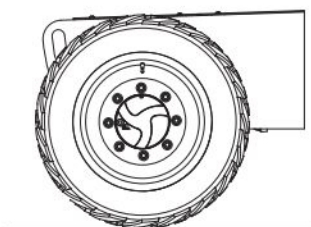
NOTE:

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

Locally Concentrated Pressure (LCP):

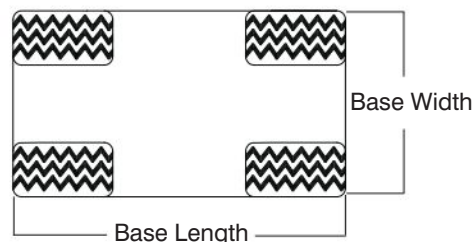
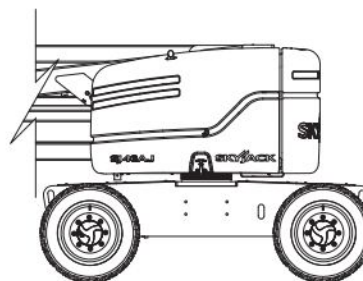
Foot Print Area identified by test.

$$\text{LCP} = \frac{\text{Wheel Load}}{\text{Foot Print Area}}$$

**Overall Uniform Pressure (OUP):**

Base Area = Length x Width

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

**WARNING**

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

General Maintenance

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

Table 4.7 Maintenance and Inspection Schedule

Frequency	Daily	3 months or 150 hours	Yearly	Frequency	Daily	3 months or 150 hours	Yearly
Visual and Daily Maintenance Inspections				Cylinders	A	B*†	
Labels	A	B*†		Wear Pads	A		
Electrical	A		Hoses	A			
Limit Switches	A		Power Track	A			
Hydraulic	A		Optional Equipment/Attachments				
Engine Compartment			Battery Warmer/Hydraulic Oil Heater (If Equipped)	A			
Main Power Disconnect Switch	A		Work Light (If Equipped)	A			
Battery	A		Flashing Amber Light (If Equipped)	A			
Charge Indicator	A		Function Tests				
High Pressure Filter	A		Test Main Power Disconnect Switch	A	B*†		
Hydraulic Pumps	A		Test Charge Indicator	A			
Muffler and Exhaust	A		Base Control Console				
Engine Pivot Tray	A		Test Base Emergency Stop Light	A			
Engine Oil Level	A		Test Base Emergency Stop	A			
Engine Air Filter	A		Test Function Enable Switch & All Boom Functions	A			
Fuel Leaks	A		Test Platform Self-leveling	A			
Control Compartment			Test Emergency Power	A			
Base Control Console	A		Test Base/Off/Platform Switch	A			
Hydraulic Tank	A		Platform Control Console				
Hydraulic Oil	A		Test Platform Emergency Stop Light	A			
Brake and Main Manifolds	A		Test Platform Emergency Stop	A			
Emergency Power Unit	A		Test Footswitch	A			
Fuel Tank	A		Test Engine Enable Switch	A			
Fuel Leaks	A		Test Steering	A			
Base			Test Driving Function	A			
Turret Transportation Lock	A	Test Driving Speed	A				
Drive Axle	A	Test Load Sensing System	A				
Oscillating Cylinder Assembly	A	Test Emergency Power	A				
Steer Cylinder Assembly	A	Test Horn	A				
Tie Rod	A	Test Brakes	A				
Wheel/Tire Assembly	A	Test Manual Platform Leveling	A				
Manuals	A	Test Differential Lock Switch	A				
Platform Assembly	A	Test Oscillating Axles	A				
Platform Control Console	A	Optional Equipment/Attachments					
Rotary Actuator	A	Test Work Light (If Equipped)	A				
Load Cell	A	Test All Motion Alarm (If Equipped)	A				
Jib	A	Test Flashing Amber Light (If Equipped)	A				
Boom		Test Hydraulic Generator (If Equipped)	A				

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

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

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

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



WARNING

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

Table 4.8 Operator's Checklist



Serial Number: _____

Model: _____

Hourmeter Reading: _____

Date: _____

Time: _____

Operator's Name (Printed): _____

Operator's Signature: _____

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

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

INSPECTION FREQUENCY

☐ DAILY
☐ FREQUENTLY
☐ ANNUALLY
☐ BI-ANNUALLY

	NA	P	F	R
Visual and Daily Maintenance Inspections				
Labels				
Electrical				
Limit Switches				
Hydraulic				
Engine Compartment				
Main Power Disconnect Switch				
Battery				
Charge Indicator				
High Pressure Filter				
Hydraulic Pumps				
Muffler and Exhaust				
Engine Pivot Tray				
Engine Oil Level				
Engine Air Filter				
Fuel Leaks				
Control Compartment				
Base Control Console				
Hydraulic Tank				
Hydraulic Oil				
Brake and Main Manifolds				
Emergency Power Unit				
Fuel Tank				
Fuel Leaks				
Base				
Turret Transportation Lock				
Drive Axle				
Oscillating Cylinder Assembly				
Steer Cylinder Assembly				
Tie Rod				
Wheel/Tire Assembly				
Manuals				
Platform Assembly				
Platform Control Console				
Rotary Actuator				
Load Cell				
Jib				
Boom				

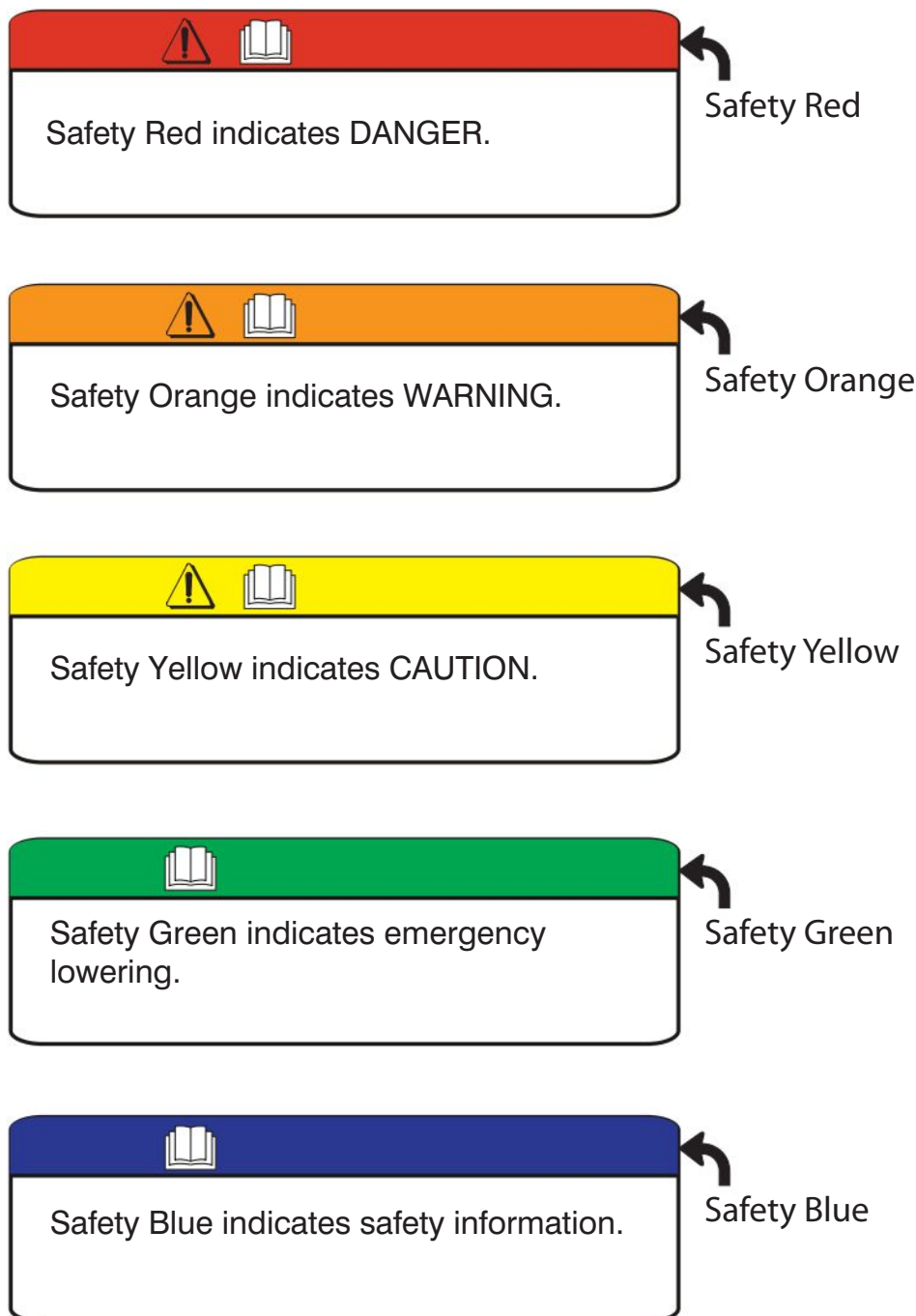
	NA	P	F	R
Cylinders				
Wear Pads				
Hoses				
Power Track				
Optional Equipment/Attachments				
Battery Warmer/Hydraulic Oil Heater (If Equipped)				
Work Light (If Equipped)				
Flashing Amber Light (If Equipped)				
Function Tests				
Test Main Power Disconnect Switch				
Test Charge Indicator				
Base Control Console				
Test Base Emergency Stop Light				
Test Base Emergency Stop				
Test Function Enable Switch & All Boom Functions				
Test Platform Self-leveling				
Test Emergency Power				
Test Base/Off/Platform Switch				
Platform Control Console				
Test Platform Emergency Stop Light				
Test Platform Emergency Stop				
Test Footswitch				
Test Engine Enable Switch				
Test Steering				
Test Driving Function				
Test Driving Speed				
Test Load Sensing System				
Test Emergency Power				
Test Horn				
Test Brakes				
Test Manual Platform Leveling				
Test Differential Lock Switch				
Test Oscillating Axles				
Optional Equipment/Attachments				
Test Work Light (If Equipped)				
Test All Motion Alarm (If Equipped)				
Test Flashing Amber Light (If Equipped)				
Test Hydraulic Generator (If Equipped)				

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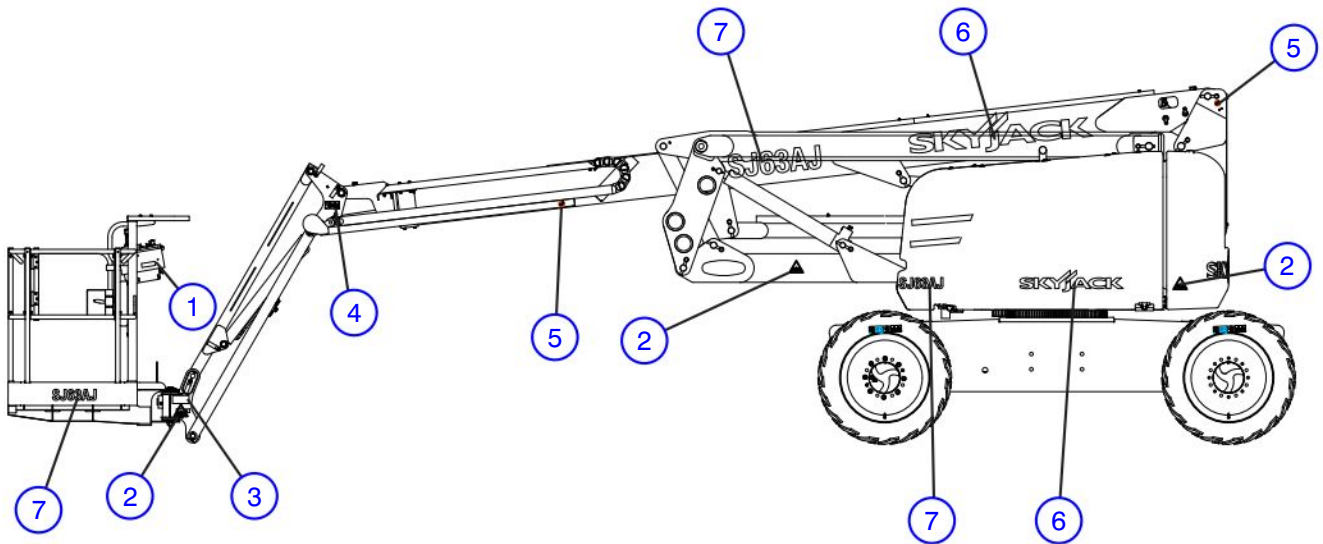
Note:

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

Label Legend

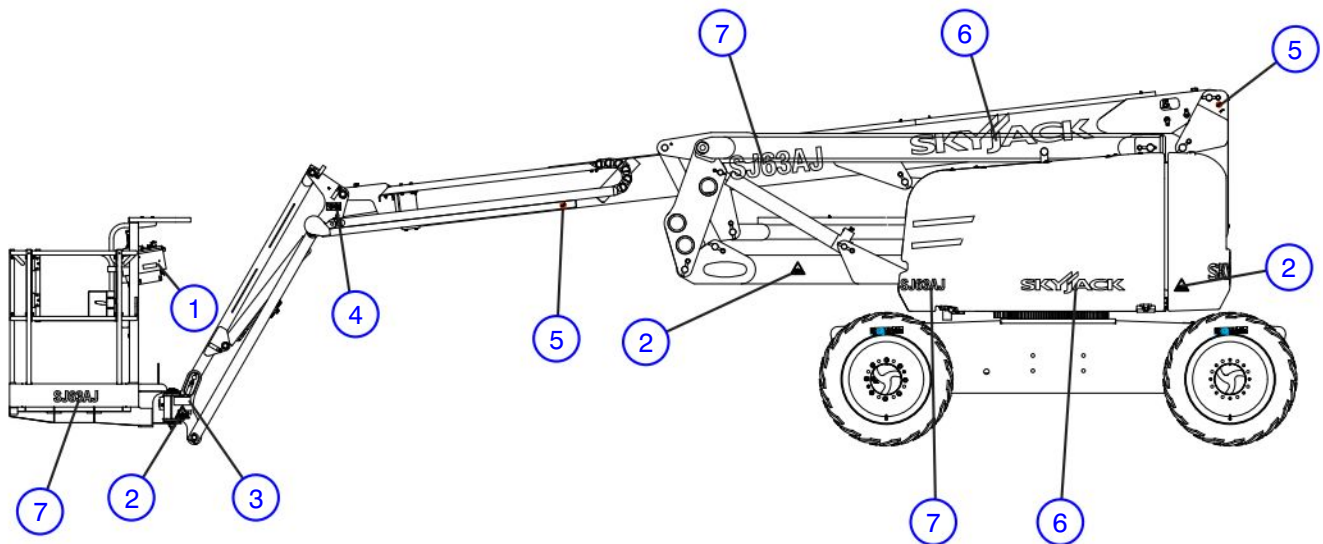


Engine Side



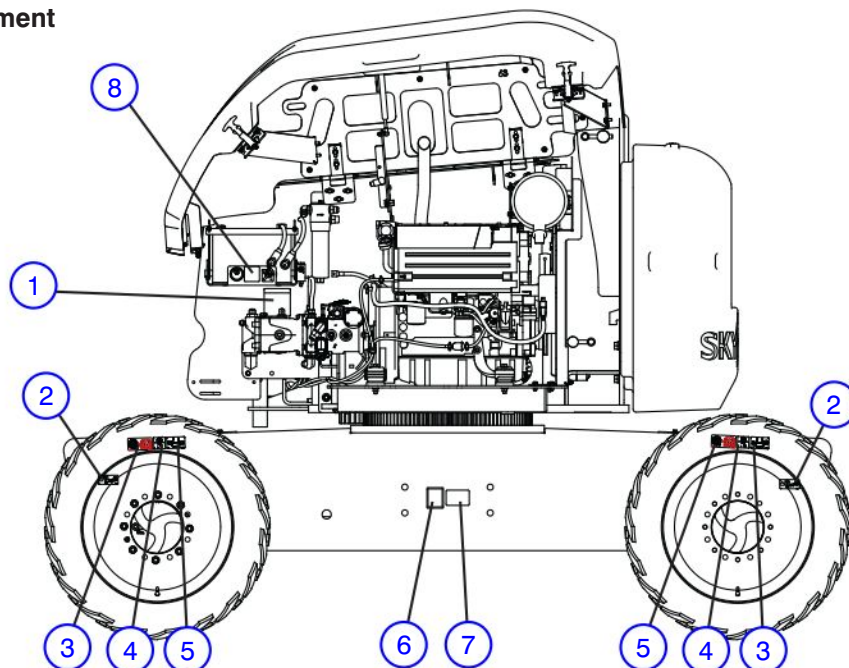
No.	Label Pictorial	Description
1		Connect AC Supply Connect AC supply here.
2		Body Crushing Hazard Danger - Body crushing hazard
3		Tie Down Points Only use these points for tying down.
4		Crushing Hazard Danger - Crushing hazard

Engine Side (Continued)



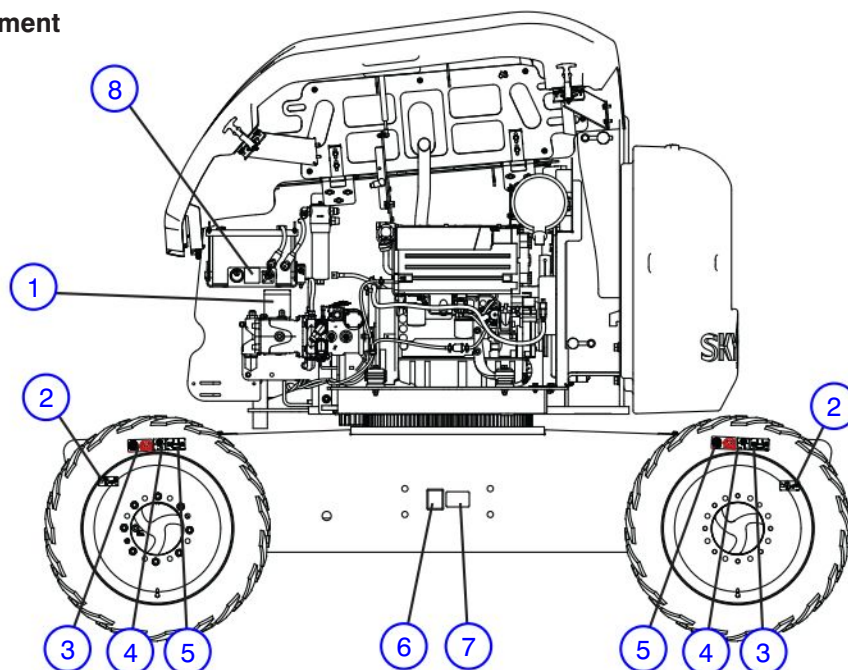
No.	Label Pictorial	Description
5		Warning - Do Not Alter Do not alter or disable limit switches or other safety devices.
6		Skyjack Logo Skyjack
7		Model Number* Product Identifier *Model number will vary, may not be as shown.

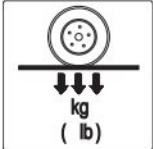
Engine Compartment



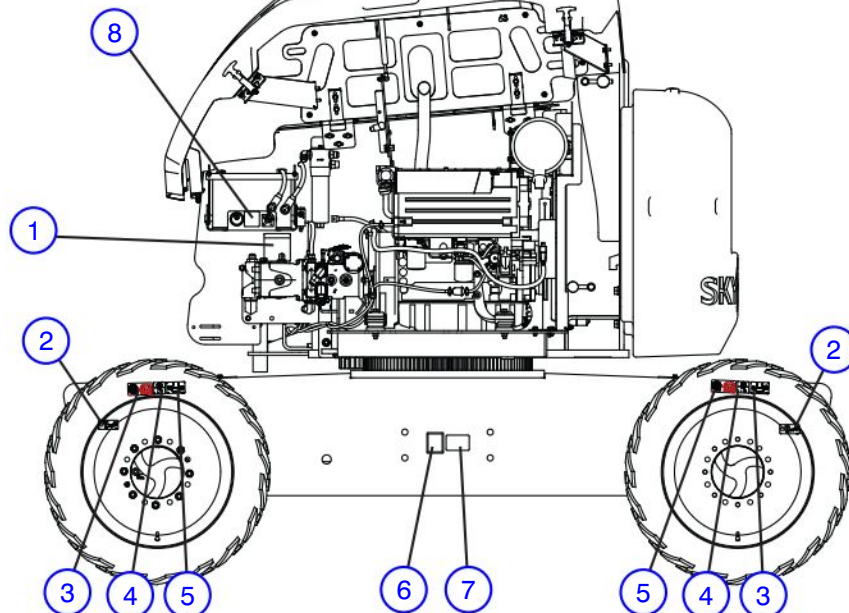
No.	Label Pictorial	Description
1		Winching/Towing/Pushing Procedure Refer to Operating manual. 1. Block or chock wheels to prevent MEWP from rolling. 2. Turn main power disconnect switch to off position. At engine side: 3. Locate bypass valve (marked with yellow colour) on inboard side of drive pump. 4. Rotate bypass valve flat using pliers or 1/4" (7mm) wrench by 90 degrees (clockwise). At hydraulic tank side: 5. Locate brake valve and pump. 6. Push in black knob. 7. Pump by 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 2.5 Winching & Towing Procedure. 8. A) Remove blocks from wheels. B) Push/tow/winck to desired location. 9. Block or chock wheels to prevent MEWP from rolling. At hydraulic tank side: 10. Reset brake by pulling out black knob. At engine side: 11. Close bypass valve by rotating 90 degrees (counterclockwise) to normal condition (flat is parallel to shaft axis). NOTE Before operation, ensure all blocks are removed from wheels.

Engine Compartment



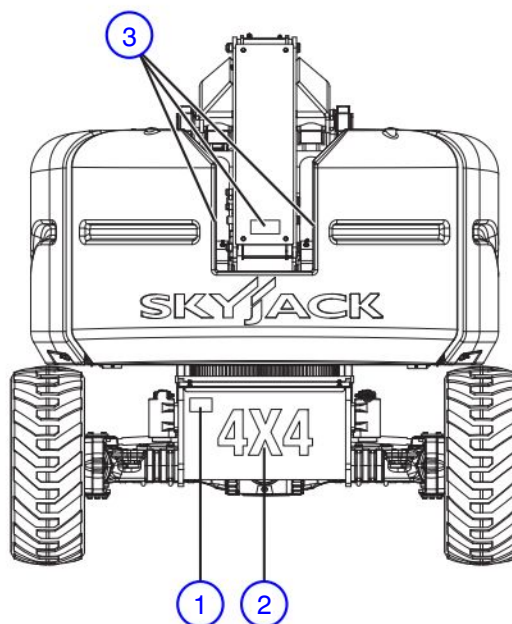
No.	Label Pictorial	Description
2		Lift and Tie Down Points Only use these points for lifting or tying down.
3		Wheel Specifications Refer to manual for wheel type, offset, pressure and torque.
4		Wheel Load* Indicates rated wheel load. *Wheel load will vary over different MEWPs.

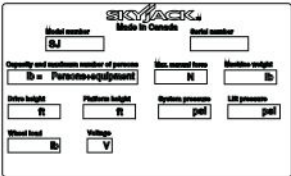
Engine Compartment (Continued)



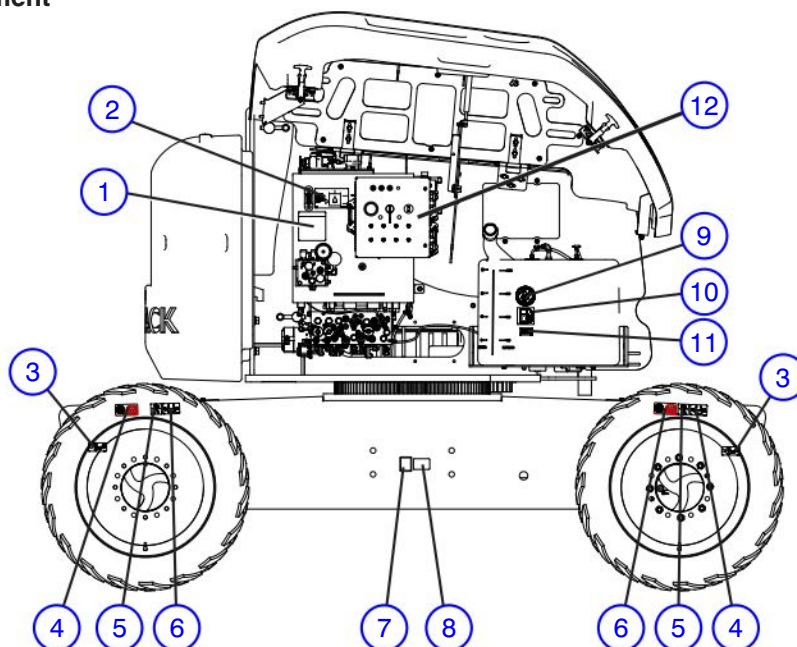
No.	Label Pictorial	Description
5		Foam-filled Tire Indicates foam-filled tire.
6		Sound Power Level Guaranteed maximum sound power level
7		“CE” CE rating mark
8		Main Power Disconnect Main power disconnect lever

Rear Side - Base



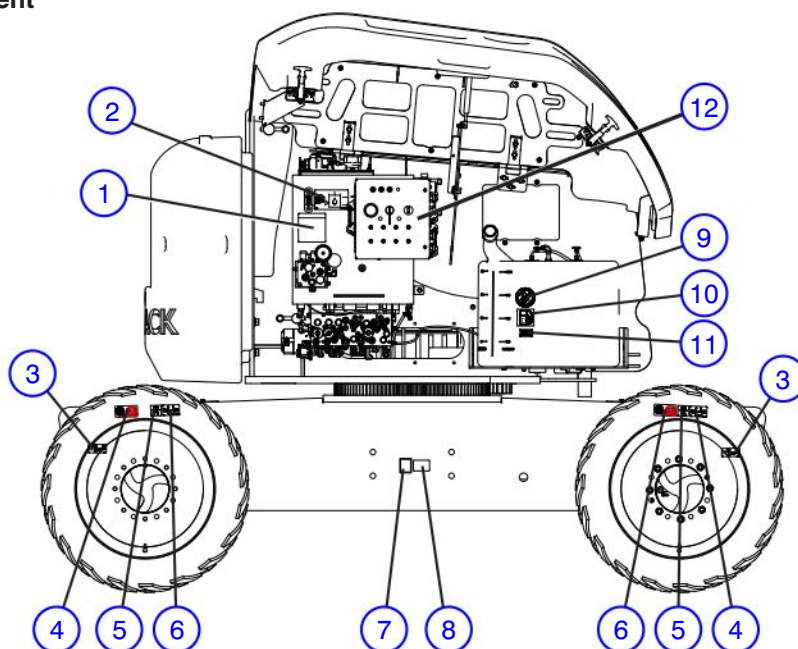
No.	Label Pictorial	Description
1		Serial Plate* Product identification and specifications *Serial plates will vary, may not be as shown.
2		4x4 (If Equipped) Product identifier - 4 wheel drive
3		Crushing Hazard Danger - Crushing hazard

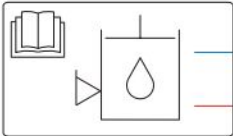
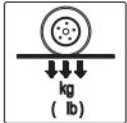
Control Compartment



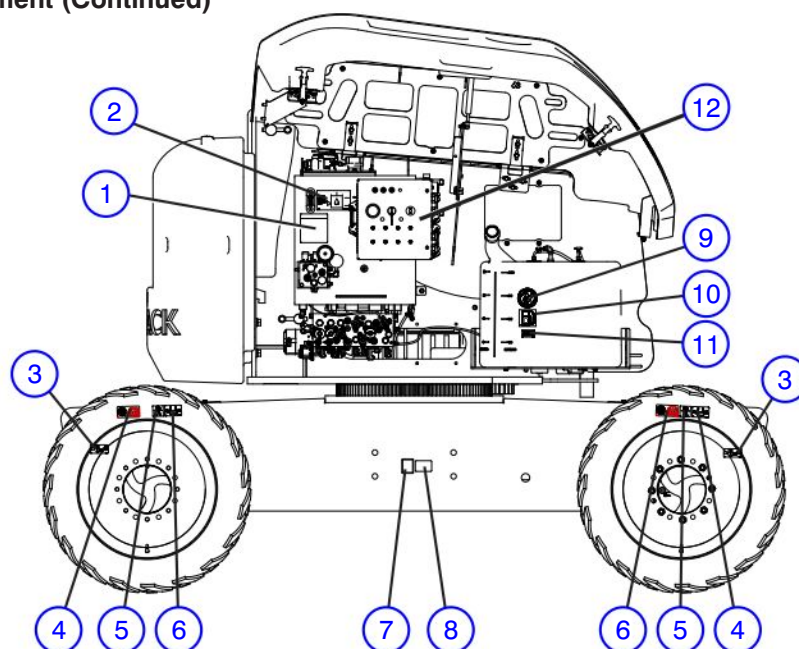
No.	Label Pictorial	Description
1		Winching/Towing/Pushing Procedure Refer to Operating manual. 1. Block or chock wheels to prevent MEWP from rolling. 2. Turn main power disconnect switch to off position. At engine side: 3. Locate bypass valve (marked with yellow colour) on inboard side of drive pump. 4. Rotate bypass valve flat using pliers or 1/4" (7mm) wrench by 90 degrees (clockwise). At hydraulic tank side: 5. Locate brake valve and pump. 6. Push in black knob. 7. Pump by 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 2.5 Winching & Towing Procedure. 8. A) Remove blocks from wheels. B) Push/tow/winch to desired location. 9. Block or chock wheels to prevent MEWP from rolling. At hydraulic tank side: 10. Reset brake by pulling out black knob. At engine side: 11. Close bypass valve by rotating 90 degrees (counterclockwise) to normal condition (flat is parallel to shaft axis). NOTE Before operation, ensure all blocks are removed from wheels.

Control Compartment



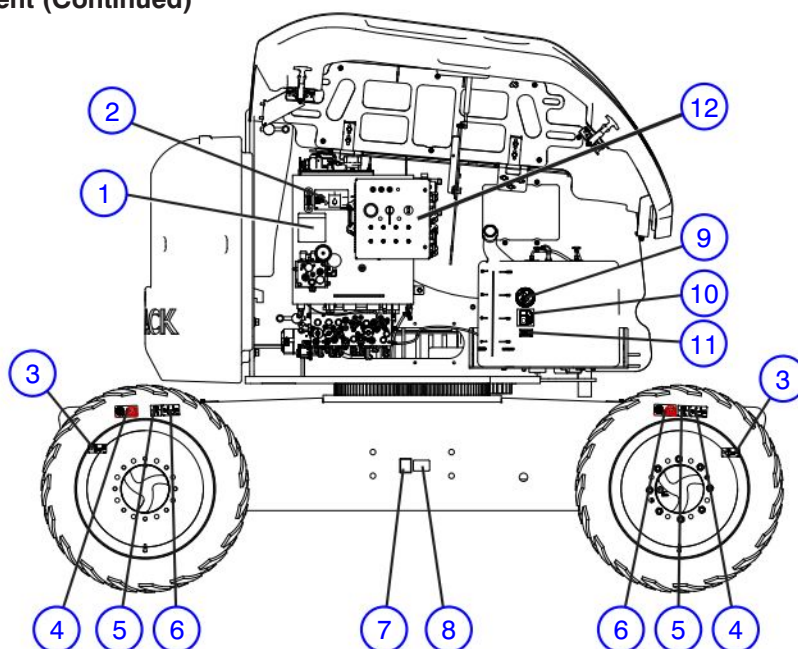
No.	Label Pictorial	Description
2		Hydraulic Oil Level Indicates minimum/maximum oil level.
3		Lift and Tie Down Points Only use these points for lifting or tying down.
4		Wheel Specifications Refer to manual for wheel type, offset, pressure and torque.
5		Wheel Load* Indicates rated wheel load. *Wheel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

Control Compartment (Continued)



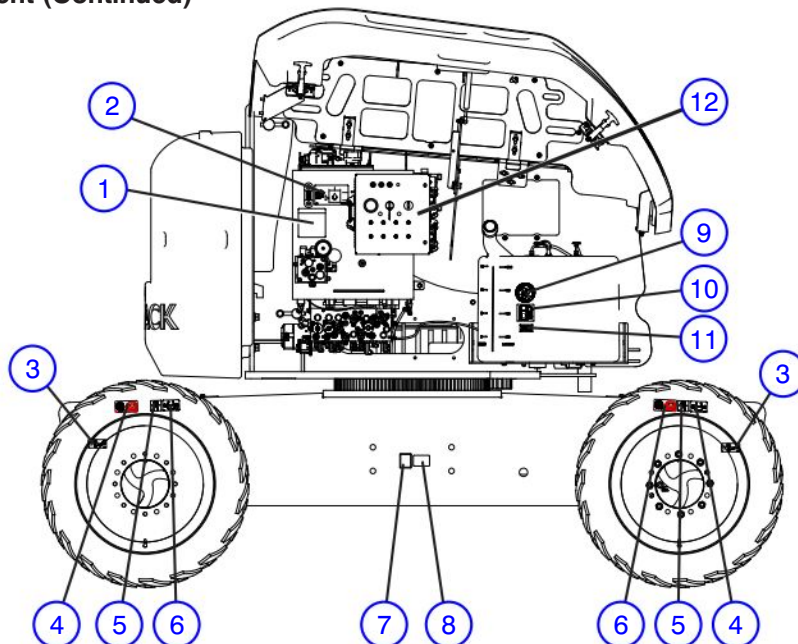
No.	Label Pictorial	Description
6		Foam-filled Tire Indicates foam-filled tire.
7		Sound Power Level Guaranteed maximum sound power level
8		"CE" CE rating mark
9		No Smoking Do not smoke near this location.
10		Diesel Ultra Low Sulfur Only Diesel Ultra Low Sulfur Only Diesel Use diesel fuel only.
11		Grease Points Maintenance Refer to service and maintenance manual  for lubricating MEWP.

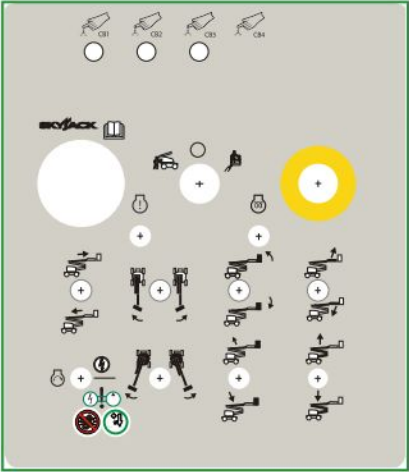
Control Compartment (Continued)



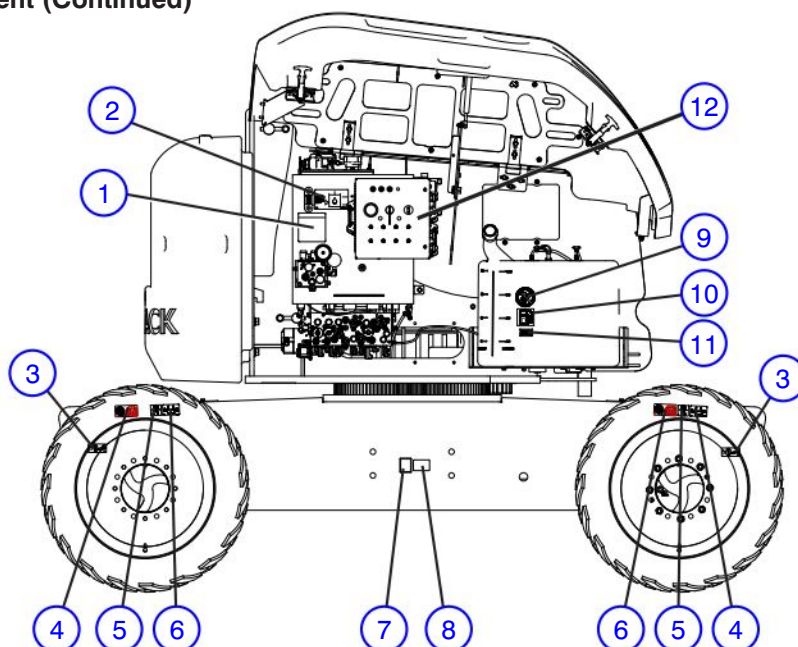
No.	Label Pictorial	Description
12a		Base Control Console Push “ ” breaker back in to reset. Select and hold “ ” to enable error blink code for engine control unit (ECU). Read “ ” operating manual. Select “ ” to turn engine off, “ ” to enable base control console or “ ” to enable platform control console. Push “ ” emergency stop to stop engine and disable controls. Select “ ” to extend fly boom or “ ” to retract fly boom. Select “ ” to rotate platform to the left or “ ” to rotate to the right. Select “ ” to tilt platform up or “ ” to tilt platform down. Select “ ” to move jib up or “ ” to move jib down. Select “ ” to rotate turret to the left or “ ” to rotate to the right. Select “ ” to raise riser or “ ” to lower riser. Select “ ” to raise main boom or “ ” to lower main boom. Push and hold “ ” to start engine. Push and hold “ ” to enable base control functions. With engine off, push and hold “ ” to enable the emergency power unit for “ ” emergency descent. Do not operate emergency power unit if platform capacity is exceeded “ ”.

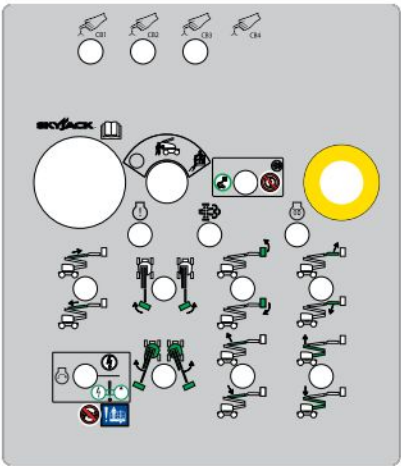
Control Compartment (Continued)



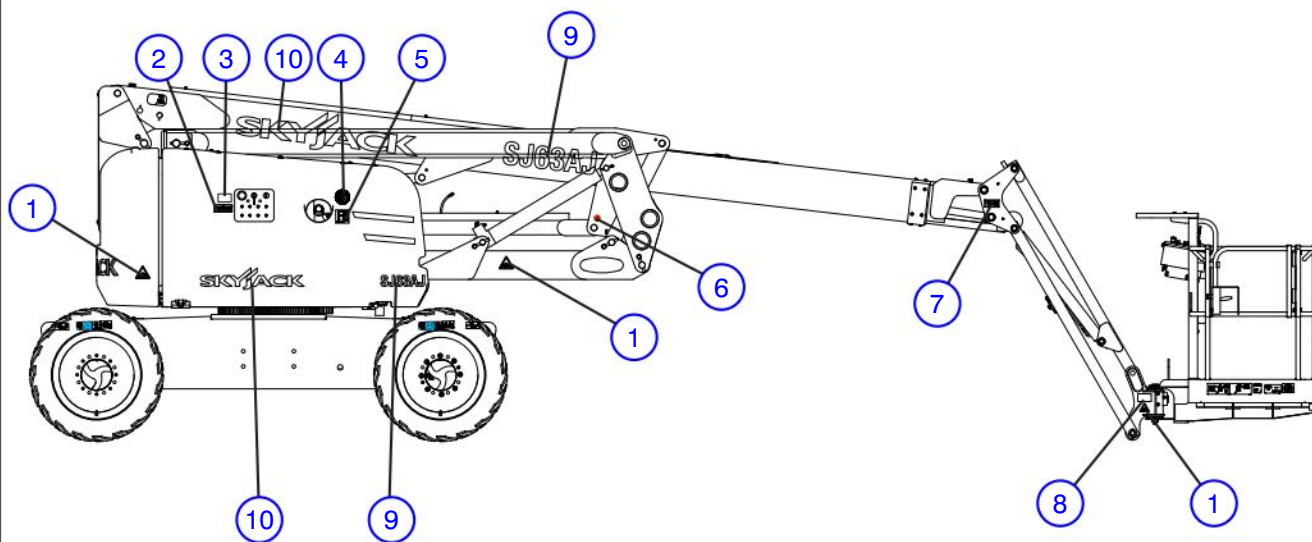
No.	Label Pictorial	Description
12b		Base Control Console Push “” breaker back in to reset. Select and hold “” to enable error blink code for engine control unit (ECU). Read “” operating manual. Select “” to enable base control console, “” to turn engine off or “” to enable platform control console. Push “” emergency stop to stop engine and disable controls. Select “” to extend fly boom or “” to retract fly boom. Select “” to rotate platform to the left or “” to rotate to the right. Select “” to tilt platform up or “” to tilt platform down. Select “” to move jib up or “” to move jib down. Select “” to rotate turret to the left or “” to rotate to the right. Select “” to raise riser or “” to lower riser. Select “” to raise main boom or “” to lower main boom. Push and hold “” to start engine. Push and hold “” to enable base control functions. With engine off, push and hold “” to enable the emergency power unit for “” emergency descent. Do not operate emergency power unit if platform capacity is exceeded “”.

Control Compartment (Continued)



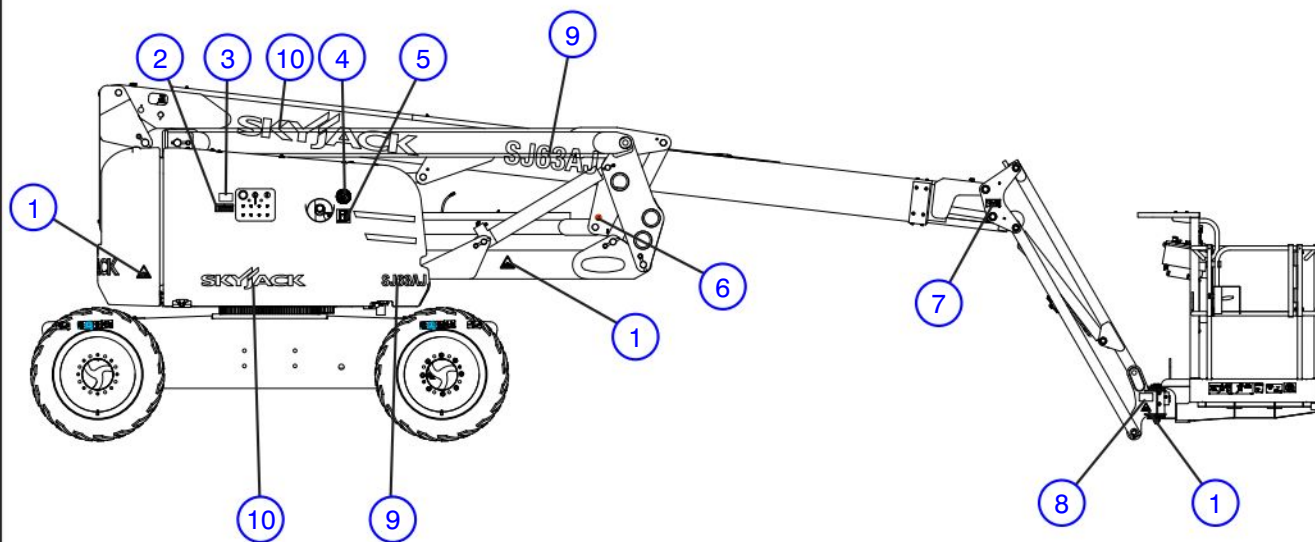
No.	Label Pictorial	Description
12c	Deutz TCD2.2 	Base Control Console Push breaker back in to reset. Select and hold “⚠” to enable error blink code for engine control unit (ECU). Read operating manual. Select “🚧” to enable base control console, “⏻” to turn engine off or “🚧” to enable platform control console. Push “🛑” emergency stop to stop engine and disable controls. Select “📏” to extend fly boom or “📏” to retract fly boom. Select “↶” to rotate platform to the left or “↷” to rotate to the right. Select “⬆” to tilt platform up or “⬆” to tilt platform down. Select “⬆” to move jib up or “⬆” to move jib down. Select “↶” to rotate turret to the left or “↷” to rotate to the right. Select “⬆” to raise riser or “⬆” to lower riser. Select “⬆” to raise main boom or “⬆” to lower main boom. Push and hold “🔌” to start engine. Push and hold “⚡” to enable base control functions. With engine off, push and hold “⚡⚠” to enable the emergency power unit for “🚗” emergency descent. Do not operate emergency power unit if platform capacity is exceeded “🚫🚗”. Activate the standstill regeneration by moving the standstill switch on the base controls to the on position.

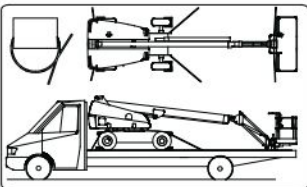
Control Side



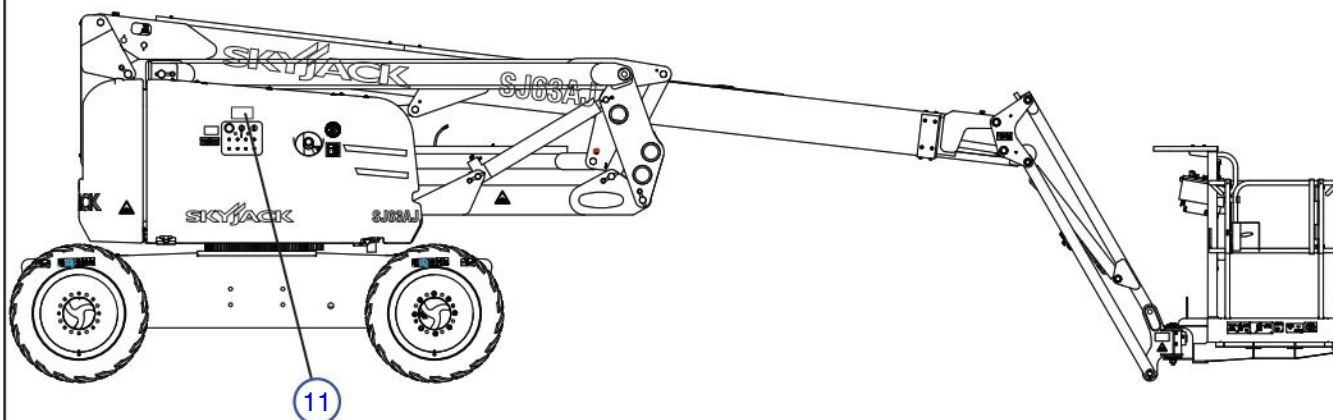
No.	Label Pictorial	Description
1		Body Crushing Hazard Danger - Body crushing hazard
2		Annual Inspection Ensure that work platform has received annual inspection prior to operation.
3		Emergency Lowering Procedure In case of emergency, follow procedure outlined in label to lower the platform.
4		No Smoking Do not smoke near this location.
5		Diesel Ultra Low Sulfur Only Diesel Ultra Low Sulfur Only Diesel Use diesel fuel only.
6		Warning - Do Not Alter Do not alter or disable limit switches or other safety devices.

Control Side (Continued)



No.	Label Pictorial	Description
7		Crushing Hazard Danger - Crushing hazard
8		Tie Down Points Only use these points for tying down.
9		Model Number* Product Identifier *Model number will vary, may not be as shown.
10		Skyjack Logo Skyjack

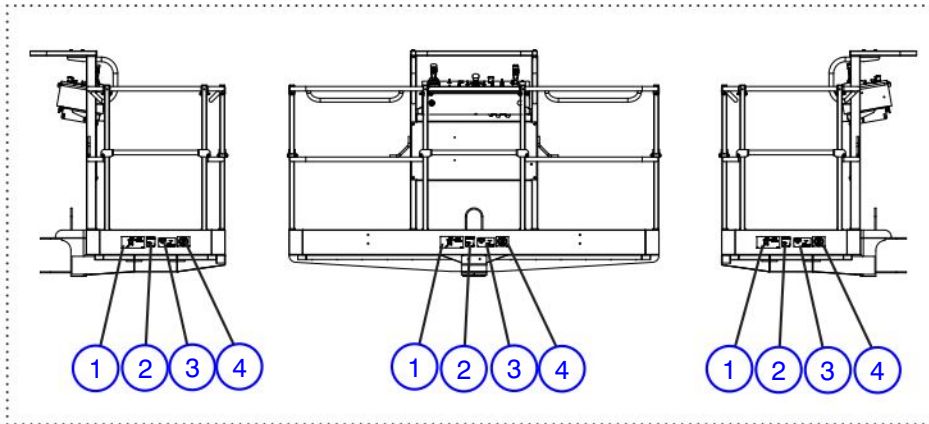
Control Side (Continued)



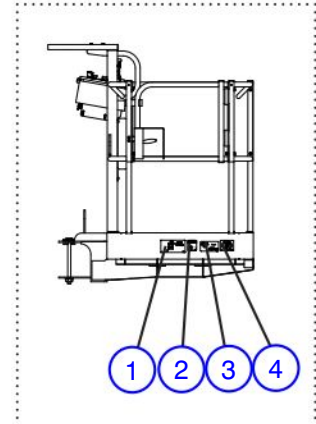
No.	Label Pictorial	Description
11		Regeneration Procedure - Deutz TCD2.2 Refer to Operating manual. - When a standstill regeneration is requested by the engine: - The standstill lamps at the base and platform controls turn on. - An audible alarm sounds at the platform. - The engine display shows the regeneration request. - Park the MEWP in a safe location in the stowed position. - Turn the key switch to the base position. - Activate the standstill switch. Base functions become inoperative. - Press and hold the middle button on the engine display module for 3 seconds. - Regeneration starts and takes about 35 to 40 minutes to complete. While regeneration is ongoing: - The standstill lamps turn solid. - The engine display shows the ongoing status. - When regeneration is complete: - The engine display shows regeneration completion. - Move the standstill switch back to the regular operation position. All functions are now available.

Platform

(If Equipped)

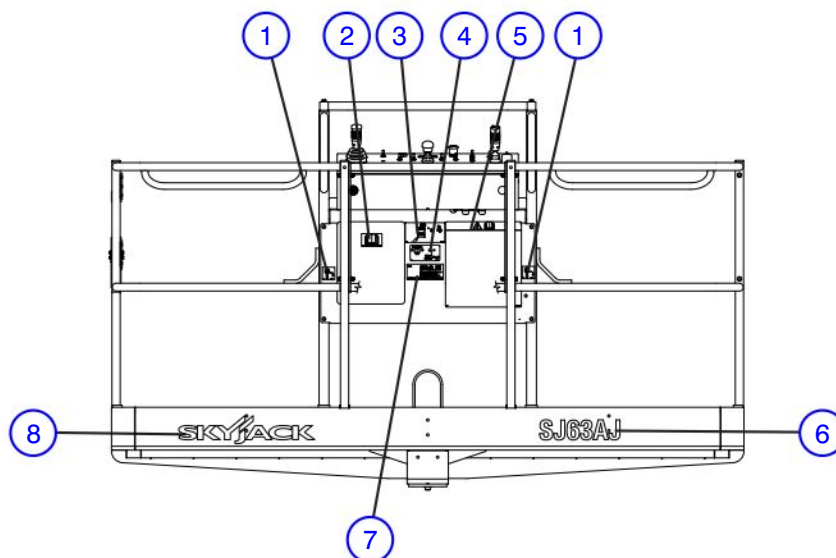


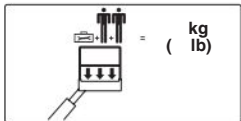
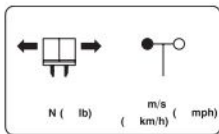
(If Equipped)



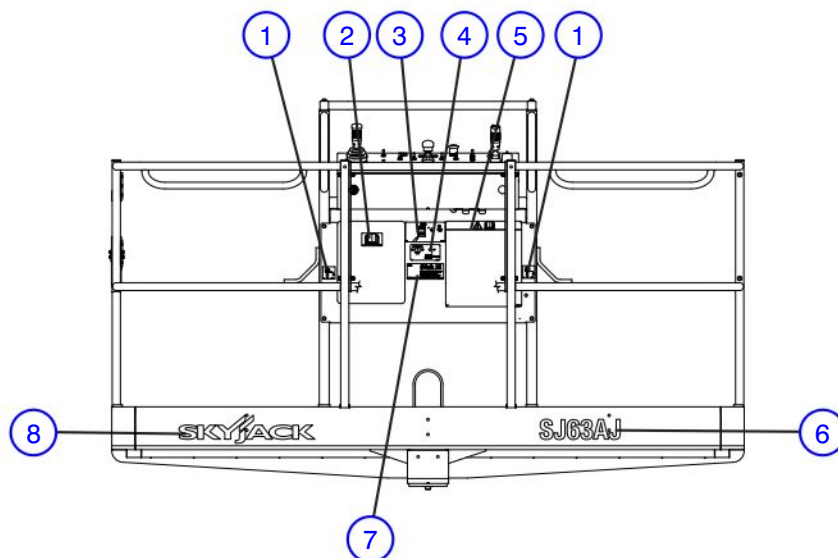
No.	Label Pictorial	Description
1		Platform Capacity* Rated work load when operating on a level ground. Rated work load includes the weight of both personnel and material, and maximum number of people in each configuration. Do not exceed total weight or maximum number of people. Load platform uniformly.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

Platform (Continued)



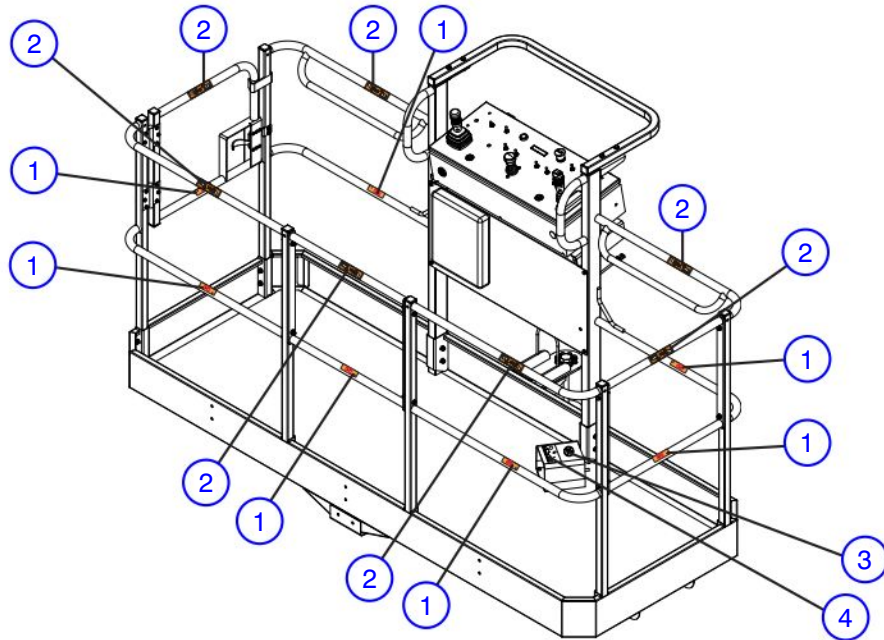
No.	Label Pictorial	Description
1		Harness Anchorage Anchor safety belt/harness tethers here.
2		Manual Box Indicates location of operating manual.
3		Platform Capacity* Rated work load when operating on a level ground. Rated work load includes the weight of both personnel and material, and maximum number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

Platform (Continued)



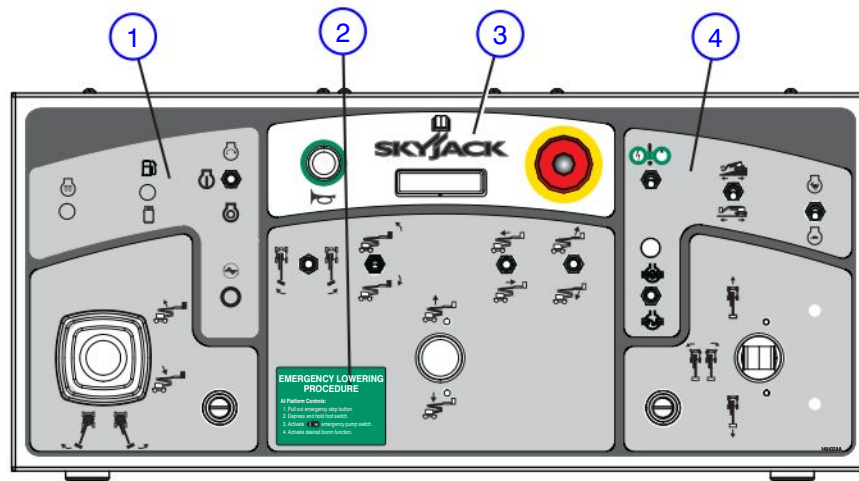
No.	Label Pictorial	Description
5		Hazard Identification Refer to Section 1: Safety Rules . Read and understand the outlined risks associated with this work platform prior to operation.
6		Model Number* Product Identifier *Model number will vary, may not be as shown.
7		AWPT "Click It!" Indicates full body harness awareness.
8		Skyjack Logo Skyjack

Platform (Continued)



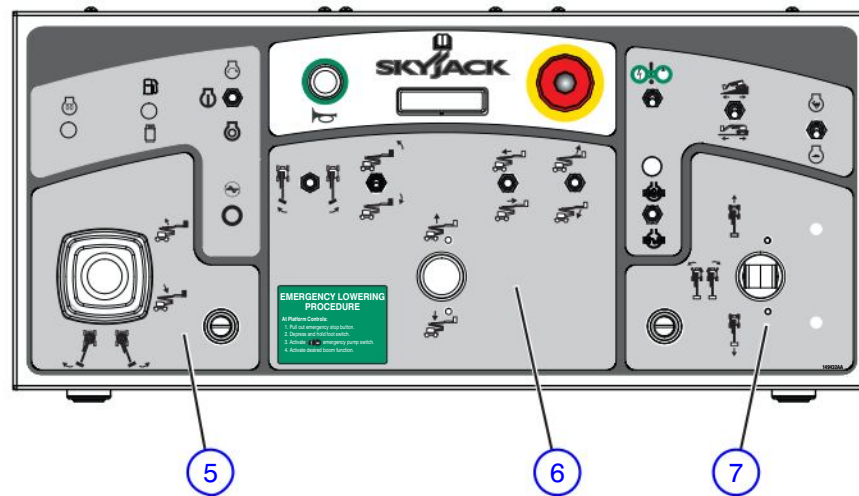
No.	Label Pictorial	Description
1		Warning - No Step No step warning
2		Crushing Hazard Danger - Crushing hazard
3		Warning - Do Not Alter Do not alter or disable limit switches or other safety devices.
4		Footswitch Enable (On/Off) Depress and hold footswitch to enable platform function.

Platform Control Console



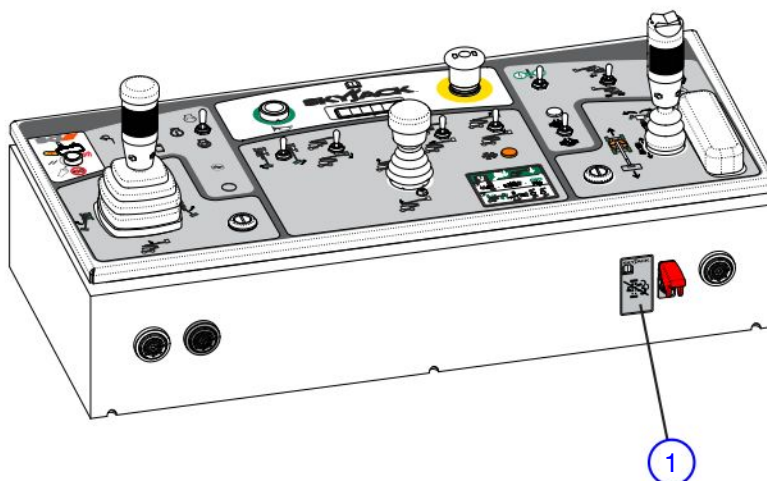
No.	Label Pictorial	Description
1		Glow Plugs/Start Engine Select “” to energize glow plugs. Push and hold “” to start engine and then return to “” on position or select “” to turn engine off. Select “” to turn hydraulic generator on or “” to turn it off.
2		Emergency Lowering Procedure Follow procedure outlined in label to lower the platform.
3		E-Stop/Horn Select “” to sound horn. Read operating manual “”. Push “” emergency stop to stop engine and disable controls.
4		Engine Controls/Emergency Power Unit Select “” to enable emergency power unit. Select “” low torque (higher speed) or “” high torque (lower speed). Select “” high torque when driving on a slope. Select either “” high or “” low engine throttle speed. Select “” to engage differential lock or “” to disengage differential lock.

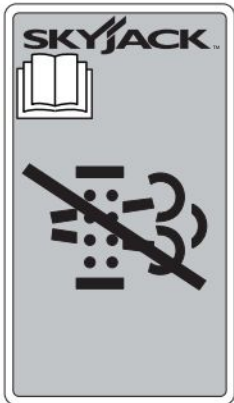
Platform Control Console (Continued)



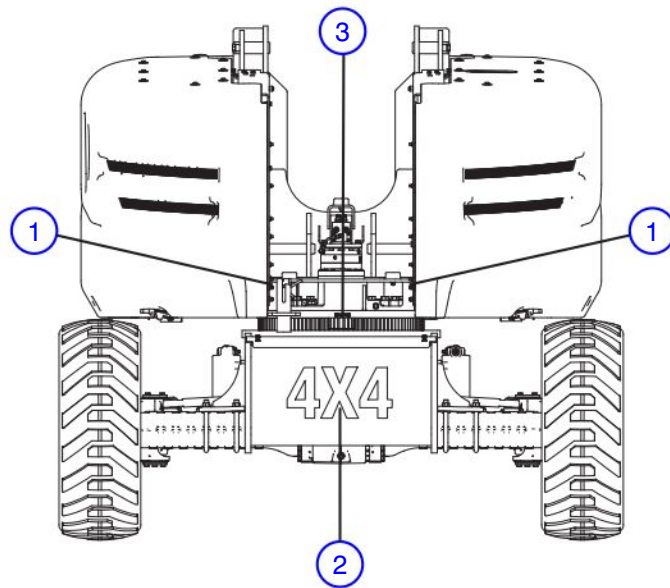
No.	Label Pictorial	Description
5		Boom/Turret Controller Push and hold controller in this direction “” to rotate turret to the left or “” to rotate turret to the right. Push and hold the controller in this direction “” to raise main boom or “” to lower main boom.
6		Boom/Jib/Platform Controls Select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

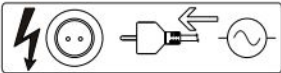
Platform Control Console - Front



No.	Label Pictorial	Description
1		Regeneration Override Switch - Deutz TCD2.2 Refer to Operating manual. When selected, this switch temporarily (for approximately 30 minutes): ▪ Overrides the regeneration request. ▪ Restores full engine power and speed to allow the MEWP to be moved to a safe location to perform the regeneration procedure. IMPORTANT The switch should only be used when absolutely necessary to move the MEWP. Be aware that use of the derate override switch may result in diesel particulate filter failure.

Front Side - Base



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



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