



This manual is based on Serial Number(s):

SJ 45T 98 001 767 & Above SJ 66T 97 001 833 & 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.

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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.

MEWP (Mobile Elevating Work Platform) Definition

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

Purpose of Equipment

The SKYJACK Telescopic Boom Series (Models SJ 45T & SJ 66T) 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 SJT series work platform to be free of defective parts and workmanship for the first 24 months. Any defective part will be replaced or repaired by your local SKYJACK dealer at no charge for parts or labor. Contact the SKYJACK Service Department for warranty statement extensions or exclusions.

Optional Accessories

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

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

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

Include the model and serial number for each applicable MEWP.

Scope of this Manual

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



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

Operator Safety Reminders

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

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

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

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

Electrocution Hazard

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

DO NOT USE MEWP AS A GROUND FOR WELDING.

DO NOT OPERATE MEWP DURING LIGHTNING OR STORMS.

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





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

1013AA



Safety Precautions

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



WARNING

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

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



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 50% (2WD & 4WD). Boom elevated driving must only be done on a firm, level surface.





Safety Precautions (Continued)

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

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



 DO NOT exert horizontal (manual) force on MEWP that exceeds the limits specified in Table 4.5.



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



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



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



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



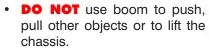
 AVOID crushing hazards. Be aware of crushing hazards when lifting or driving. Keep all body parts inside the MEWP.



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



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





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



- STUNT driving and horseplay are prohibited.
- ENSURE ALL tires are in good condition and lug nuts are properly tightened.





- DO NOT 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



WARNING

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

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.

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.



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.

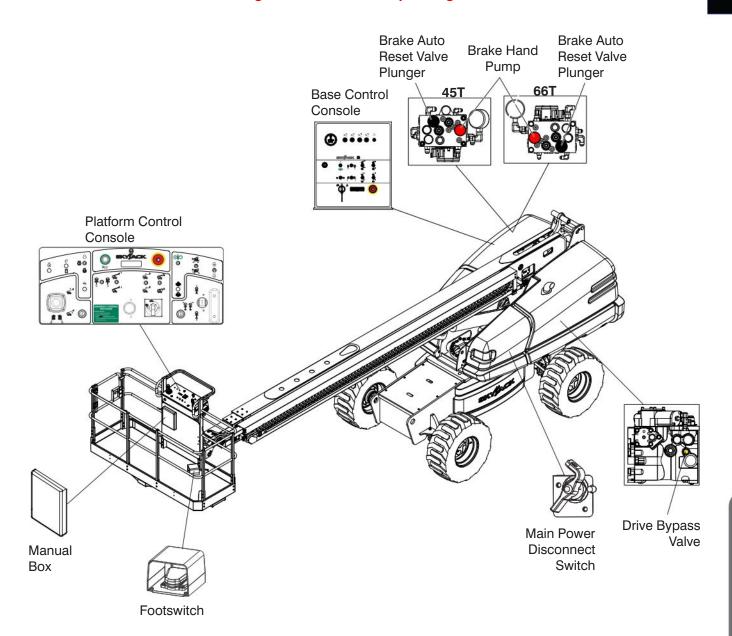
2.1 Familiarization of Telescopic Boom Series

N WARNING

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

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

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



2.2 Component Identification

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

2.2-1 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.

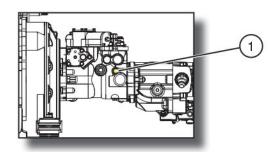


Figure 2-1. Drive Bypass Valve

Drive Bypass Valve with Override Stems

 This valve, when loosened two revolutions counterclockwise, is used to override drive relief valves so that the MEWP can be loaded or unloaded from a trailer using a winch line.

2.2-2 Main Power Disconnect Switch

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

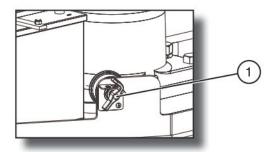


Figure 2-2. Main Power Disconnect Switch

1. 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.

2.2-3 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 2.5-1 for procedure on how to release brakes manually. The system contains the following controls:

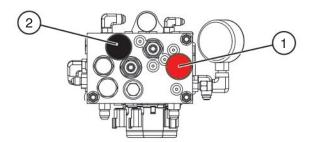


Figure 2-3a. Brake System - SJ45T

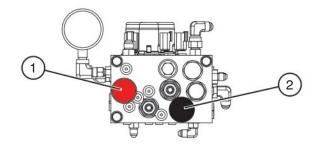


Figure 2-3b. Brake System - SJ66T

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

2.2-4 Tilt Sensor

The tilt sensor is located inside the base control console. It is designed to prevent driving and activate audible and visual alarms when MEWP is on a slope greater than a predetermined limit.



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

2.2-5 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 2.4-3 for instruction regarding testing differential lock switch.



WARNING

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

2.2-6 Footswitch

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

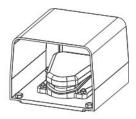


Figure 2-4. Footswitch

NOTE

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

2.2-7 Platform Load Sensing System

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

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

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

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

Overload Status Chart

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

NOTE

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

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

2.2-8 Base Control Console

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

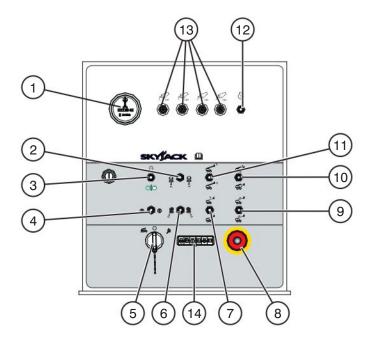


Figure 2-5. Base Control Console

- **1. Hourmeter** This gauge records accumulated operating time of engine.
- 2. Platform Rotation Switch This switch controls "I left or "I right rotation of platform."
- 3. Start/Emergency Power Switch This switch "O" starts engine or "O" enables emergency power unit.
- **4. Function Enable Switch** When held in either direction, this momentary switch "①" allows base control functions to operate.
- 5. Base/Off/Platform Key Switch This three-way selector switch allows operator to "O" turn off power to MEWP or to activate either "D" base or "platform control console.

- 6. Turret Rotation Switch This switch controls "left or " right rotation of turret.
- 7. Main Boom Raise/Lower Switch This switch controls "arraising or "arraising or "lowering of main boom.
- 8. Emergency Stop Button This red "mushroom-head" "pushbutton disconnects power to control circuit and shuts engine off.
- Fly Boom Extend/Retract Switch This switch controls "
 " extension or "
 " retraction of fly boom.
- **10. Jib Up/Down Switch** This switch controls "up or "o" down movement of jib.

2.2-8 Base Control Console (Continued)

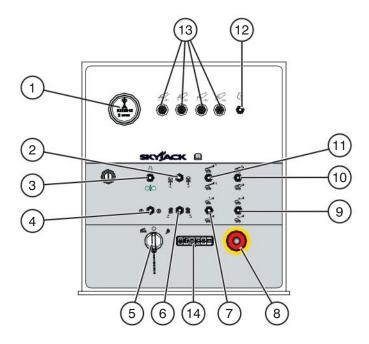
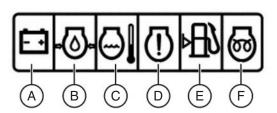


Figure 2-5. Base Control Console

- 11. Platform Leveling Override Switch This switch overrides automatic leveling of platform and controls " " tilting up or " " tilting down of platform.
- **12.** Engine Diagnosis Switch When held in either direction, this switch "!" enables an error blink code for engine control unit (ECU).
- Circuit Breakers In the event of a power overload or positive circuit grounding, the circuit breaker pops out. Push breaker back in to reset.

14. Status Indicator Pilot Lights - These lights indicate operational status and errors in any function in the controls/engine.



- A. Charging Circuit This light indicates charger circuit malfunction.
- **B.** Engine Oil Pressure This light indicates low engine oil pressure.
- **C. Engine Coolant** This light indicates overheating of engine coolant.
- **D. Engine** This light indicates failure in engine control system.
- **E.** Fuel This light indicates low fuel level.
- F. Glow Plug (Diesel) This light illuminates until glow plugs have completed their timed cycle. When the lamp goes out, the engine is ready to be started.

2.2-9 Platform Control Console

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

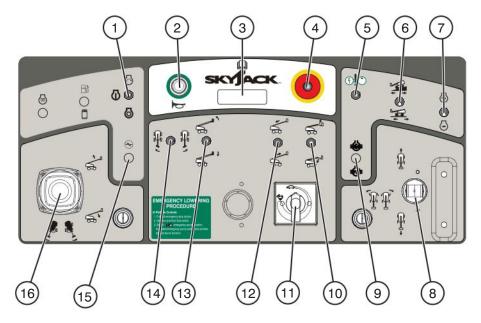
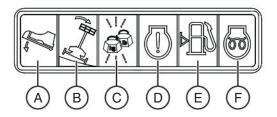


Figure 2-6. Platform Control Console

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



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

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

2.2-9 Platform Control Console (Continued)

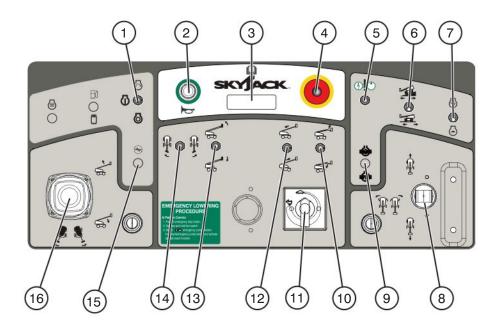
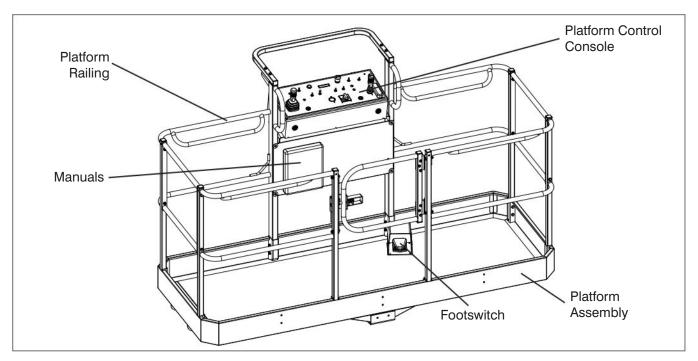


Figure 2-6. Platform Control Console

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

 The rocker switch controls steering "p" left or "p" 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 "about a down movement of jib."
- 11. Function Speed Adjuster Dial This variable-speed adjuster "o" controls speed of fly boom extension/retraction, jib raising/lowering and platform rotation movements. This is used with switches 9, 11 and 13.

- 12. Fly Boom Extend/Retract Switch This switch controls " extension or " retraction of fly boom.
- 13. Platform Leveling Override Switch This switch overrides automatic leveling of platform and controls "at illting up or "at illting down of platform. To activate platform leveling override, lift and move switch.
- 14. Platform Rotation Switch This switch controls " left or " " right rotation of platform.
- **15.** Generator On/Off Switch (If Equipped) This switch turns the hydraulic generator "O" on or "O" off.
- 16. Boom/Turret Controller This dual-axis lever controls "a" raising or "a" lowering of main boom or rotating "" left or "a" right of turret.



2.3 Visual & Daily Maintenance Inspections

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



WARNING

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



WARNING

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



CAUTION

Ensure MEWP is on a firm, level surface.

NOTE

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

2.3-1 Labels

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

2.3-2 Electrical

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

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

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

2.3-3 Limit Switches

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

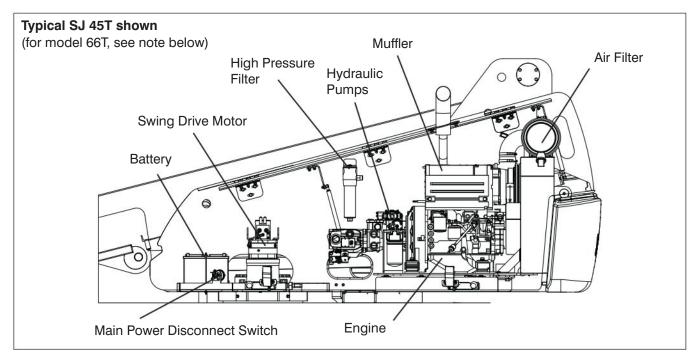
2.3-4 Hydraulic

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

Perform a visual inspection around the following areas:

- hydraulic tank filter, fittings, hoses, emergency power unit and turret/base surface
- engine compartment fittings, hoses, main pump, filter and turret/base surface
- all hydraulic cylinders
- all hydraulic manifolds
- the underside of the turret
- the 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 (see right side for 66T)
 - 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.

Batteries

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



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.

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



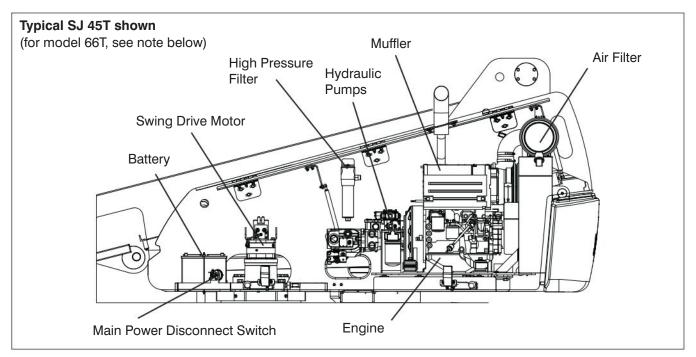
WARNING

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

Swing Drive Motor

- 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.





Turret Rotation Gear

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

Rotary Manifold

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

High Pressure Filter (45T)

(see Control Compartment for 66T)

- 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. Ensure that each tray-securing bolt is in place.

Engine Oil Level

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



WARNING

Beware of hot engine components.

Check oil level on dipstick

Oil level should be in the "safe" zone.
 Add oil as needed. Refer to Table 4.2b for recommended oil type.

Engine Air Filter

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

Fuel Leaks

- Ensure that there no fuel leaks.

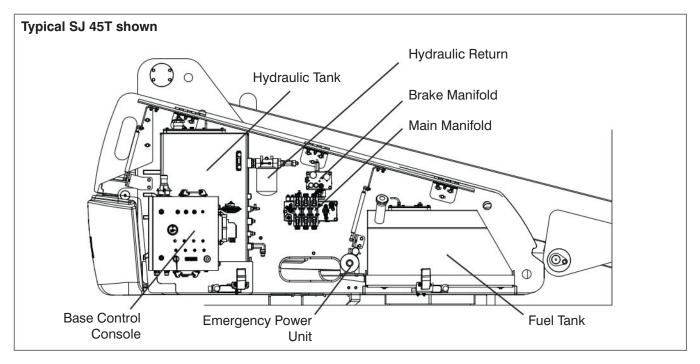


DANGER

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.





2.3-6 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 side of the hydraulic oil tank.
- The hydraulic oil level should be between the minimum and maximum marks on the sight glass. Add oil as needed. Refer to Table 4.2b for recommended oil type.

Hydraulic Return Filter

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

Brake and Main Manifolds

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

Emergency Power Unit

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

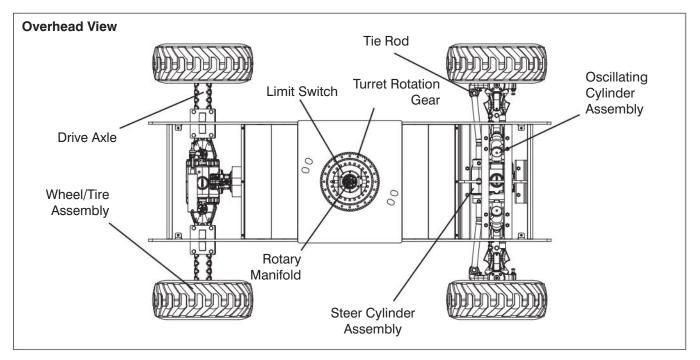
Fuel Tank

IMPORTANT

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

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





Fuel Leaks

- Ensure that there no fuel leaks.



DANGER

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

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

2.3-7 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 3.3. Axle
Oscillation Diagram - SJ 45T.

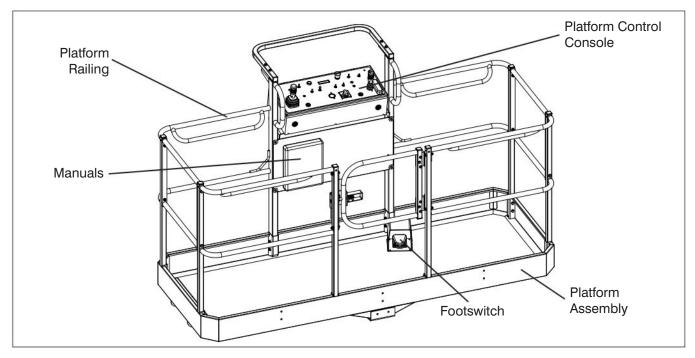
Steer Cylinder Assembly

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

Tie Rod

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





Wheel/Tire Assembly

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

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

Refer to Table 4.4 for wheel/tire 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 and other important documents are enclosed in manual storage box.

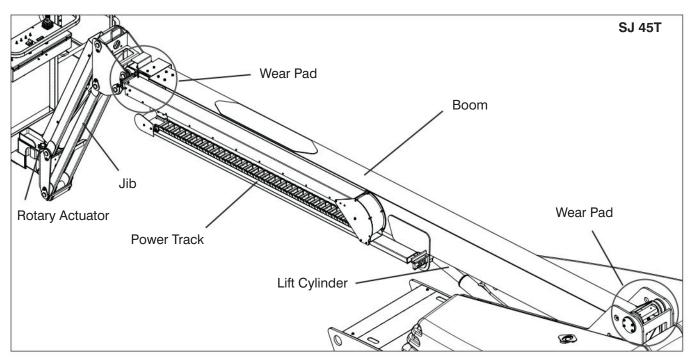
- Check to be sure manual storage box is present and in good condition.
- Ensure manuals are legible and in good condition.
- Always return manuals to the manual storage box after use.

2.3-9 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 (if equipped) is in good working order and automatically closes and latches.
- 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.

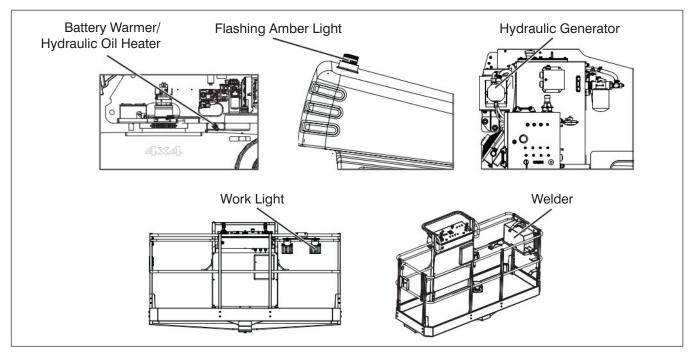
Hoses

 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.





Cables (66T)

- Ensure there are no loose or missing parts with no signs of visible damage.
- Ensure that nuts are not loose and are locked together.
- Ensure that there are no gaps between springs (see Figure 2-7). If there are gaps, tighten nuts to remove gaps and then add another half turn more.

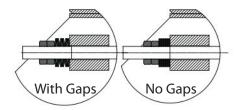


Figure 2-7. Springs

2.3-15 Optional Equipment/Attachments

Hydraulic Generator (If Equipped)

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

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.

• Welder (If Equipped)

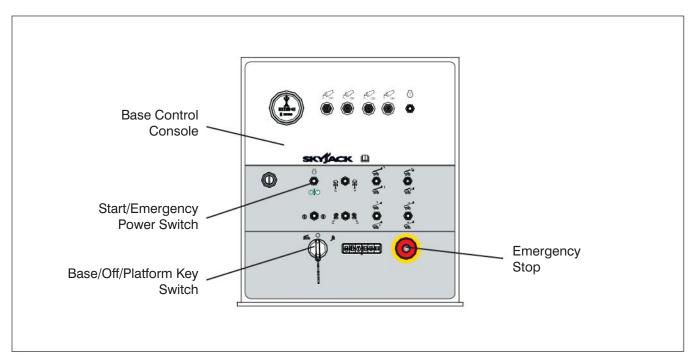
- Ensure welder and welder tray are properly secured.
- Ensure there are no loose or missing parts and there is no visible damage.
- Ensure there are no loose wires or missing fasteners.

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.

NOTE

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

2.4-1 Test Main Power Disconnect Switch

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

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

NOTE

Close all cowlings before proceeding to next item.

2.4-2 Base Control Console

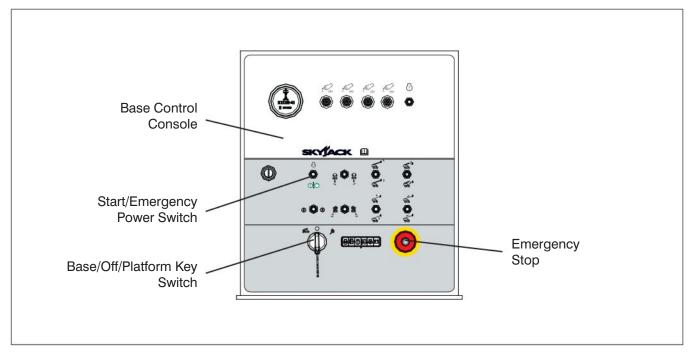
- On platform control console, pull out " emergency stop button.
- 2. On base control console, pull out "O" emergency stop button.
- 3. Turn base/off/platform key switch to "** base position.
- 4. Start engine by selecting "O" start position from start/emergency power switch.

Test Emergency Stop

- 1. Push in "o" emergency stop button.

 Result: Engine should shut down and MEWP functions should not operate.
- 2. Pull out "o" emergency stop button and restart engine.





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



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

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

Result: All boom and platform functions should not operate.

2. Hold "4" function enable switch to either side and activate each boom and platform function.

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

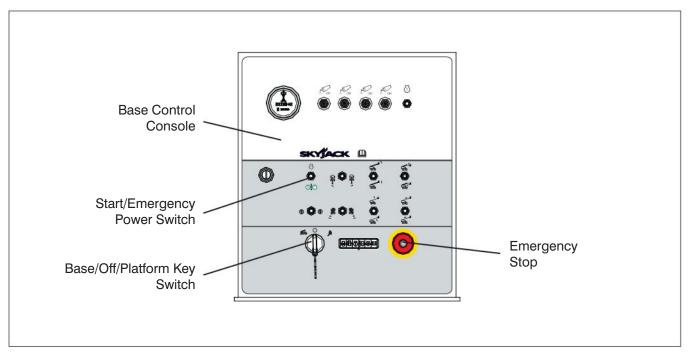
Test Platform Self-leveling

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



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

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 base/off/ platform key switch to "platform position."
- 5. Select "O" emergency power position from start/emergency power switch and activate each boom function.

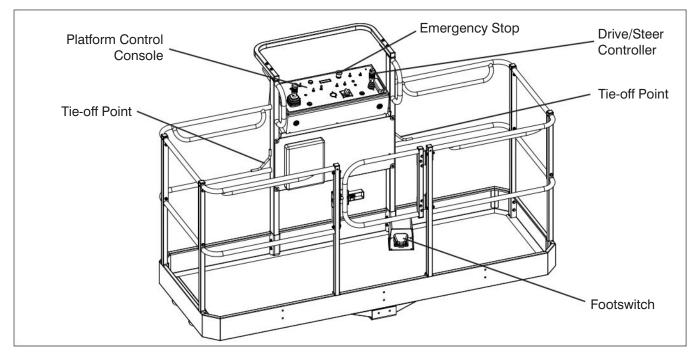
 Result: All selected functions should operate.
- 6. Turn base/off/platform key switch to " base position."
- 7. Select "O" emergency power position from start/emergency power switch and activate each boom function.

 Result: All selected functions should operate.

NOTE

The emergency power unit has two-minute duty cycle.





Test Base/Off/Platform Switch

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

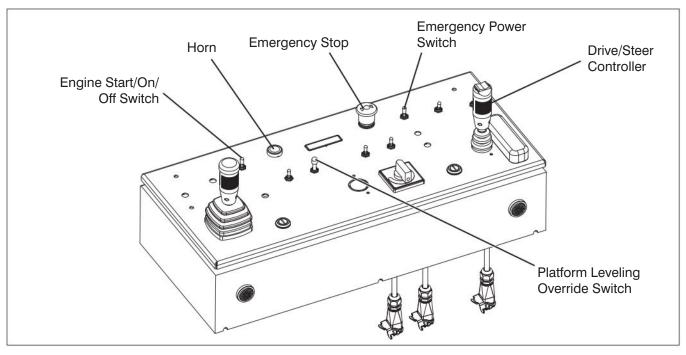


WARNING

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

- 5. Enter platform and close gate.
- 6. On platform control console, select "O" on position from engine start/on/off switch.

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



2.4-3 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!



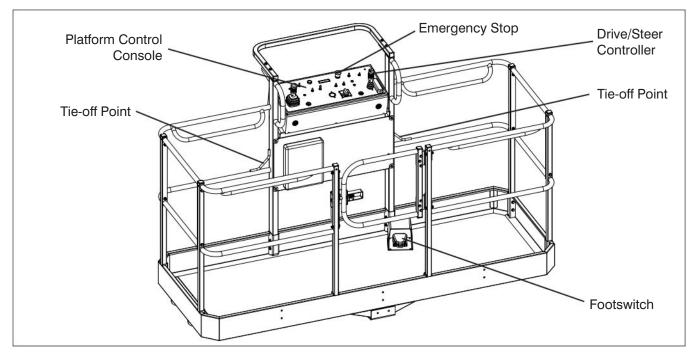
WARNING

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

Test Load Sensing System

- 1. Push in "o" 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 Footswitch

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

Result: Engine should start.

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

Result: MEWP functions should not operate.

NOTE

The emergency power unit has twominute duty cycle.

NOTE

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

Test Engine Enable Switch

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

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

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

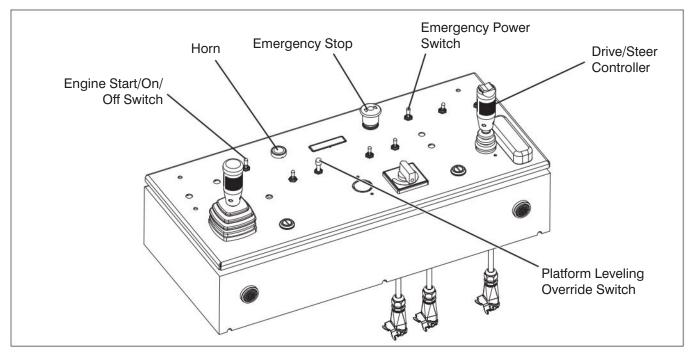
Result: Platform control console is enabled.

4. Start engine.

Test Emergency Stop

- 1. Ensure engine is running.
- Push in "o" emergency stop button.
 Result: Engine should shut down and MEWP functions should not operate.





Test Steering

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

Test Driving Speed

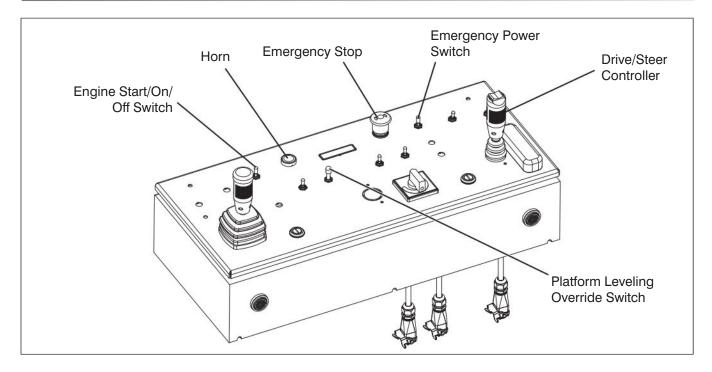
stop.

- Depress and hold footswitch.
- 2. Raise "a" main boom approximately 4 m (14 ft.) and then slowly move drive/ steer controller to full drive position.

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





Test Emergency Power



CAUTION

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

NOTE

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

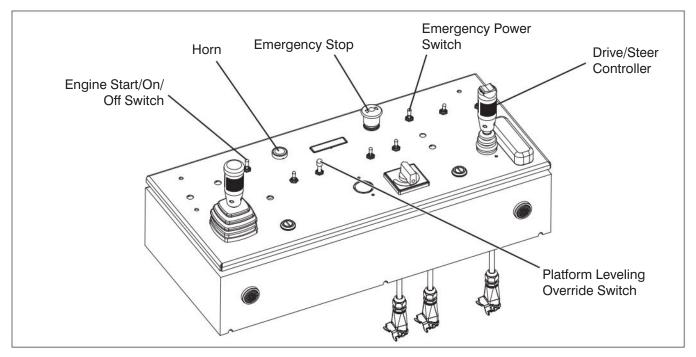
- 4. Depress and hold footswitch.
- 5. Turn "O emergency power switch to "I" on position and activate each function control handle or switch.

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

NOTE

The emergency power unit has twominute duty cycle.

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



Test Brakes



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

- 1. Move MEWP to a firm level surface to ensure similar traction on left and right.
- 2. Ensure boom is in stowed position.
- 3. Depress and hold footswitch and drive MEWP first "I" forward then " " reverse at full speed.
- Remove your foot from footswitch.
 Result: MEWP should come to an instant and abrupt stop. If MEWP does not stop immediately, or if MEWP pulls to one side while stopping, do not operate MEWP until brake adjustments have been checked.

Test Manual Platform Leveling

1. Depress and hold footswitch.

2. On platform leveling override switch, lift and move switch to "" " upward position to tilt platform up or "" " lift and move switch to downward position to tilt platform down.

Result: Platform should tilt up or down.

Test Differential Lock Switch



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

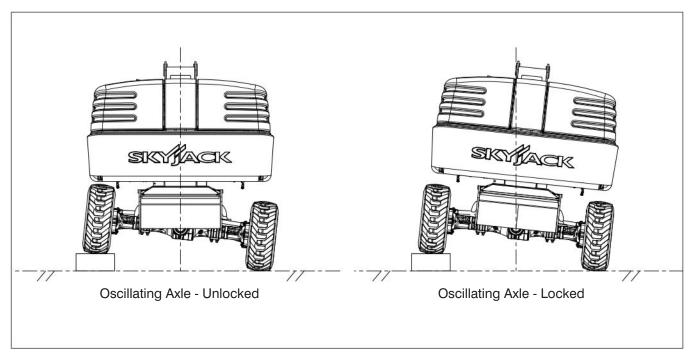
 On platform control console, push differential lock switch forward "to the locked position and then release.

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

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

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





Test Oscillating Axles



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

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

Result: The steer axles should be locked.

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

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

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

Test Cables (66T)

NOTE

Cables have to be tested daily.

- 1. Raise the main boom to approximately horizontal.
- Extend and retract the boom sections.
 Result: There should be no delay in the movement of the fly boom section.

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 50 cm/sec (2 in./sec).



WARNING

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



WARNING

Do not winch or tow MEWP on grade steeper than 50% (4WD).



WARNING

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

- Before winching or towing MEWP, fully retract, lower and position boom over rear drive wheels in line with direction of travel.
- 2. Manually release brakes (refer to Section 2.5-1).
- 3. Remove wheel chocks or blocks, and then winch or tow MEWP to desired location.

- 4. Position MEWP on a firm and level surface.
- Chock or block wheels to prevent MEWP from rolling.
- Apply brakes by pulling out black brake auto reset valve.

NOTE

Brakes automatically apply when platform controls are engaged.



WARNING

Brakes must be applied immediately after reaching desired location.



2.5-1 To Release Brakes Manually

Brakes must be manually disengaged for winching or towing.



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

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



CAUTION

Do not use hydraulic power with brake disengaged.

 Locate the bypass valve on the inboard side of the drive pump. Bypass the drive pump by loosening the valve stem (item 1 - marked with yellow paint) two revolutions counterclockwise.

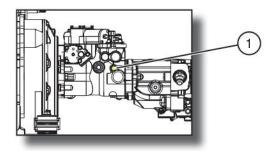


Figure 2-8. Drive Bypass Valve



Do not release brakes before disengaging drive motor!

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

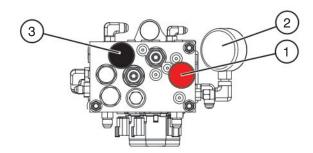


Figure 2-9a. Brake Manifold - SJ45T

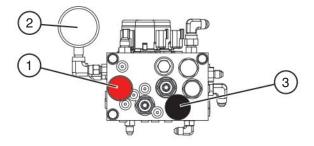


Figure 2-9b. Brake Manifold - SJ66T

 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.

2.6 Emergency Lowering Procedures

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

NOTE

The emergency power unit has two-minute duty cycle.

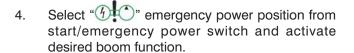


CAUTION

Do not use emergency power unit continuously for more than two minutes.

At Base Control Console:

- 1. Ensure engine is off.
- 2. Pull out "O" emergency stop button.
- 3. Select either "" base position or " platform position from key switch.



At Platform Control Console:

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



Notes	
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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.

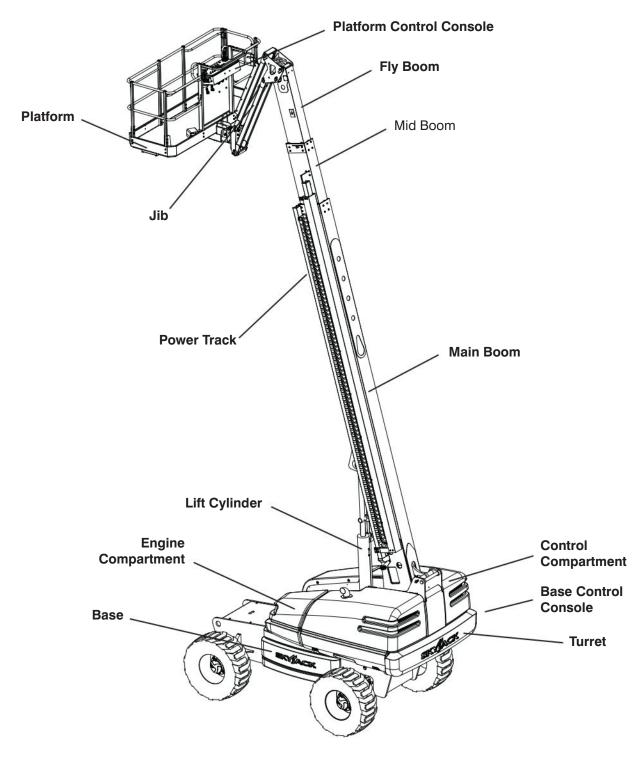
3.1-4 Owner's Inspections

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 Telescopic 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. The rear axle is hydraulic motor-driven and has a spring-applied, hydraulically released brakes. The front axle is steerable by a hydraulic cylinder and has spring-applied, hydraulically released brakes (66T only). 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, battery and swing drive. 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 is mounted on the turret and consists of a telescoping fly and main boom assembly. Model 66T has an additional mid boom section. The telescoping boom mechanism uses two double-acting hydraulic cylinders with holding valves to control vertical movement. Cables are used to extend the fly boom section in the 66T model. SJ 45T & SJ 66T models are equipped with a 152 cm (60 in.) boom 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 center gate or an optional swing gate at the side of the railing system. The platform can be rotated in either direction. An optional AC outlet is also located on the platform.

3.4 Serial Number Nameplate

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

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

3.5 Component Identification

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

3.5-1 Manual Storage Box

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



3.5-2 Turret Transportation Lock

This locking device is located in the turret.

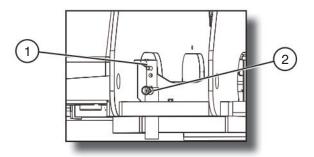


Figure 3-1. Turret Transportation Lock

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

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

3.5-3 All Motion Alarm

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

3.5-4 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 beside hydraulic tank in control compartment.

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.

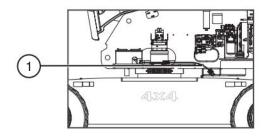


Figure 3-2. Battery Warmer/Hydraulic Oil Heater Cord

 Battery Warmer/Hydraulic Oil Heater Cord - This cord is plugged into the AC outlet at least 4 hours before starting engine when temperature gets below -10°C (+14°F).

3.6-2 Welder (If Equipped)

The welder is installed on the platform. Refer to welder's operating manual for proper operation and maintenance.

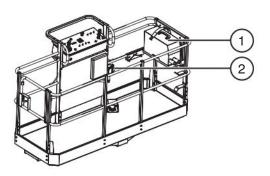


Figure 3-3. Welder

- 1. **Welder** This equipment is plugged into its dedicated AC outlet on the platform.
- 2. **Welder AC Outlet** This AC outlet is dedicated for the welder.

NOTE

In sub-zero temperatures, the hydraulic oil should be warmed, prior to operating the welder.



WARNING

Only qualified persons should install, operate, maintain and repair the welder.



CAUTION

Breathing welding fumes and gases can be hazardous to your health.

3.6-3 Work Light (If Equipped)

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

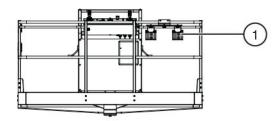


Figure 3-4. Work Light

 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.

3.6-4 Flashing Amber Light (If Equipped)

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

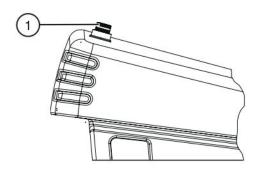


Figure 3-5. Flashing Amber Light

1. **Flashing Amber Light** - 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).

3.8 Start Operation

Carefully read and completely understand the Operating Manual and all warnings and instruction labels (refer to labels section) 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:

- 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



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.
- On platform control console, pull out " 2. emergency stop button.



- 3. In engine compartment, turn main power disconnect switch to "" on position.
- On base control console, turn base/off/platform key switch to "" base position.
- Pull out " emergency stop button. 5.
- Select "O" start position from start/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.

For MEWP with cold weather start option:

- 7. Disconnect battery warmer/hydraulic oil heater from AC outlet after engine starts.
- 8. Allow engine to run, for approximately 10 minutes, to reach operating temperature before driving.

3.8-2 To Rotate Platform Using Base Control Console

- 1. Activate and hold function enable switch "

 "by pushing it to either direction.
- 2. Push platform rotation switch to either "2" left or "3" 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 "O" by pushing it to either direction.
- 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 either direction.
- 2. Push jib up/down switch to either "oo" up or "oo" down position. Release switch to stop.

3.8-5 To Raise or Lower Main Boom Using Base Control Console

- 2. Push main boom raise/lower switch to either "aise or "aise" lower position. Release switch to stop.

3.8-6 To Extend or Retract Fly Boom Using Base Control Console

- 2. Push fly boom extend/retract switch to either "

 "extend or "

 "retract position. Release switch to stop.

3.8-7 To Level Platform Using Base Control Console

- 1. Activate and hold function enable switch "①" by pushing it to either direction.
- 2. Push platform leveling override switch to either "a" up or "a" down position. Release switch to stop.

3.8-8 To Operate Using Emergency Power Switch at Base Control Console

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

NOTE

The emergency power unit has two-minute duty cycle.



CAUTION

Do not use emergency power unit continuously for two minutes.

3.8-9 To Activate Platform Control Console

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



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



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



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.

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

3.8-10 To Drive Forward or Reverse Using **Platform Control Console**



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 "I" to drive forward or "I" to drive backward.
- 3. Release controller handle to stop.



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



When driving on a slope:

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

3.8-11 To Steer Using Platform Control Console

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

NOTE

Driving and steering may be active at the same time.

3.8-12 To Move Jib Up and Down Using Platform Control Console

- 1. Depress and hold footswitch.
- 2. On jib up/down switch, select "o "to move jib up or "o "o "o move jib down. Vary speed with "boom speed adjuster dial. Release switch to stop.

3.8-13 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. Vary speed with " boom speed adjuster dial. Release switch to stop.

3.8-14 To Level Platform Using Platform Control Console

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

3.8-15 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. Vary speed with " " boom speed adjuster dial. Release switch to stop.

3.8-16 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.

3.8-17 To Sound Horn

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

3.8-18 To Rotate Turret Using Platform Control Console



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

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

NOTE

Turret can be rotated continuously 360 degrees.

3.8-19 To Operate Using Emergency Power Switch at Platform Control Console

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

NOTE

The emergency power unit has two-minute duty cycle.



Do not use emergency power unit continuously for two minutes.

3.8-20a 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.

3.8-20b 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).

3.8-21 Shutdown Procedure

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

For MEWP with cold weather start option:

NOTE

When temperature gets below -10°C (+14°F), ensure MEWP is parked close to AC outlet.

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

3.8-22 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 "O" off position.

NOTE

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

3.9 Refueling Procedure

This section provides the operator with procedure on how to refuel the 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)

- 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. Securely replace fuel cap.
- 5. Ensure there are no leaks in fuel system.
- 6. Wipe up any spilled fuel.
- 7. Dispose of rags in an approved container.

3.10 Loading/Unloading

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

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

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

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

3.10-1 Loading and Tie-down

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

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



Inspect MEWP for loose or unsecured items.

NOTE

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

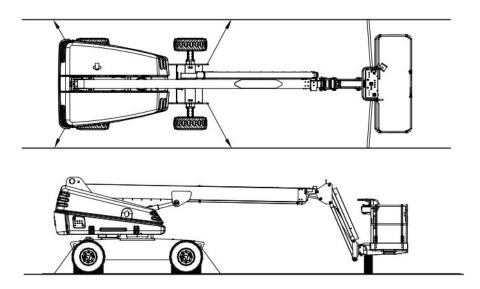


Figure 3-6. Tie-down Points

3.10-2 Locking the Turret

- Ensure that turret is positioned so that turret transportation lock (item 1 - Figure 3-7) is aligned into one of four turret locking points.
- 2. Pull out turret lock retaining pin (item 2 Figure 3-7). Lower turret lock into locked position and reinsert turret lock retaining pin.

3.10-3a Lifting (45T)

- Place boom in stowed position (boom lowered and fully retracted, jib fully down, if equipped) centered between drive wheels. Lock turret using turret transportation locking pin (refer to Section 3.10-2) into one of two transport/lift points only (refer to Figure 3-7).
- 2. Turn main power disconnect switch to "O" off position.

3. Clear platform of all personnel, tools and materials.



WARNING

When lifting the MEWP, lifting devices must be attached to designated lift points only (refer to Figure 3-8).



WARNING

Use chains with load capacity sufficient to withstand MEWP weight.

Refer to the serial plate of the MEWP for specific weight.

 Properly adjust rigging to ensure MEWP remains level during lifting. See Center of gravity location (Figure 3-8).

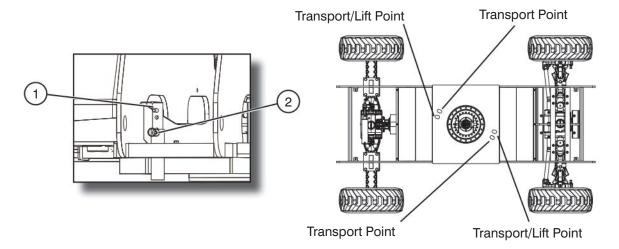


Figure 3-7. 45T Turret Transportation Lock & Locking Points

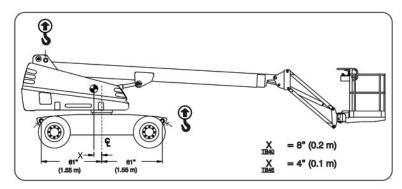


Figure 3-8. 45T Lifting Points



3.10-3b Lifting (66T)

- 1. Rotate the boom and position the MEWP as shown in Figure 3-9 and Figure 3-10.
- 2. Turn main power disconnect switch to "O" off position.
- 3. Clear platform of all personnel, tools and materials.



When lifting the MEWP, lifting devices must be attached to designated lift points only (refer to Figure 3-10 and Figure 3-11).



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

4. Properly adjust rigging to ensure MEWP remains level during lifting. See Center of gravity location (Figure 3-9).

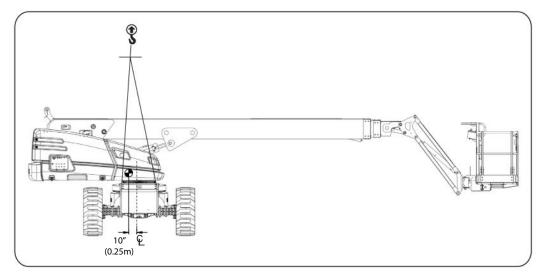


Figure 3-9. 66T Center of Gravity

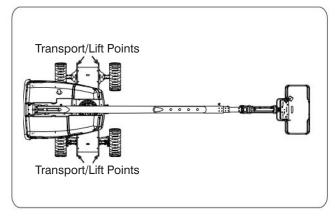


Figure 3-10. 66T Overhead View Lifting Points

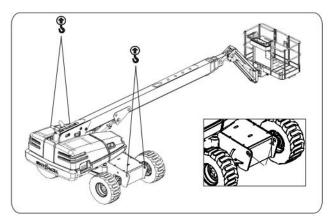


Figure 3-11. 66T Lifting Points

3.11 Chassis Tilt

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

IMPORTANT

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



WARNING

If 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.

3.11-1 Counterweight Uphill

If the MEWP becomes tilted with the counterweight uphill (refer to Figure 3-12) follow the steps below to return to a lowered and retracted position.

- 1. Retract the fly boom completely.
- 2. Drive to a firm level surface.

3.11-2 Counterweight Downhill

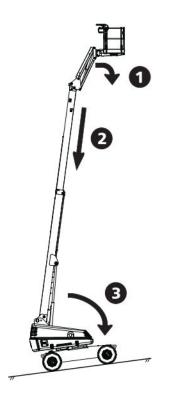
If the MEWP becomes tilted with the counterweight downhill (refer to Figure 3-13) follow the steps below to return to a lowered and retracted position.

- 1. Lower the jib to horizontal (if equipped).
- 2. Retract the fly boom completely.
- 3. Lower the main boom completely.
- 4. Drive to a firm level surface.





Figure 3-12. Counterweight Uphill



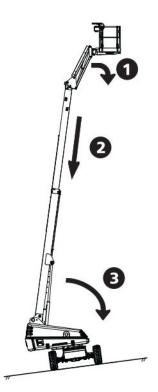


Figure 3-13. Counterweight Downhill





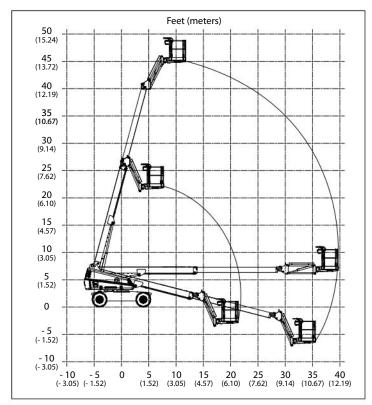


Figure 3-14. Reach Diagram - 45T

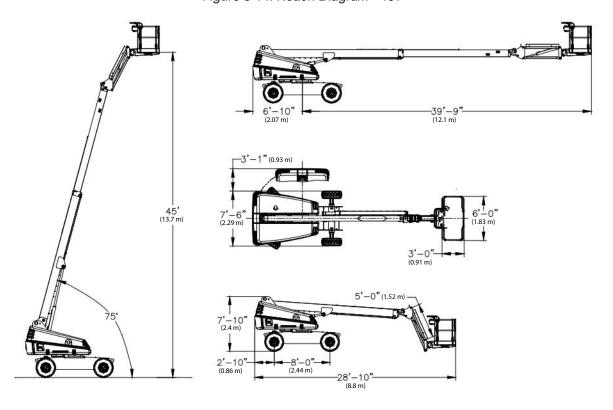


Figure 3-15. Dimensions - 45T

Section 3 - Operation Diagrams

Diagram 3.2 Dimension and Reach Diagram - SJ 66T

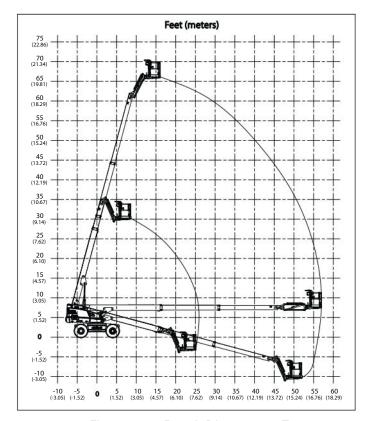


Figure 3-16. Reach Diagram - 66T

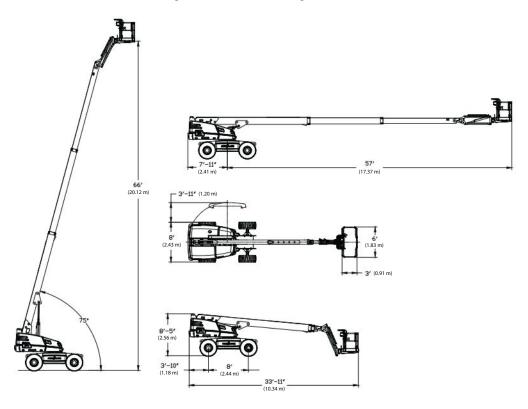
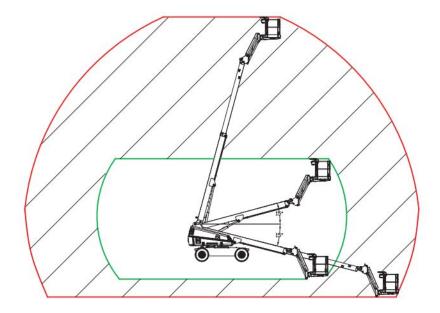


Figure 3-17. Dimensions - 66T

Diagram 3.3 Axle Oscillation Diagram



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



Axle oscillation free (travel mode) - drive speed 7.2 km/h (4.5 mph) max.

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

Figure 3-18. Axle Oscillation

Tables

Table 4.1 Standard and Optional Features

MODEL	SJ 45T	SJ 66T
STANDARD E	EQUIPMENT	
12 Volt DC emergency power	✓	✓
5-foot jib	✓	✓
72 x 36 inch platform (Rear gate)	✓	✓
Base controls	✓	✓
Continuous drive and steer directional sensing	✓	✓
Diesel engine	✓	✓
Engine anti-restart protection	✓	✓
Foam filled tires	✓	✓
Four-wheel drive	✓	✓
Glow plug heaters	✓	✓
Load sensing system	✓	✓
Manual brake release	✓	✓
Operator horn	✓	✓
Oscillating axle (steer)	✓	✓
Platform controls	✓	✓
Rear entry spring hinged gate	✓	✓
Spring-applied hydraulically released brake	✓	✓
Variable speed drive and function controls	✓	✓
OPTIONAL E	QUIPMENT	
3500W hydraulic generator	✓	✓
Receptacle outlet cable on platform	✓	✓
96 x 36 inch platform (Side gate)	✓	✓
Air line or hydraulic line to platform	✓	✓
All function motion alarm	✓	✓
Base driving light	✓	Not Available
Catalytic Muffler (Level 1)	✓	✓
Catalytic Muffler (Level 2)	Not Available	✓
Cold weather start kit (diesel)	✓	✓
Flashing amber light	✓	✓
Oil cooler (included with generators)	✓	✓
Platform work light	✓	✓

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Tables Section 4

Table 4.2a Specifications and Features

	MODEL	SJ 45T	SJ 66T
orm :e	Total platform length (outside)	182.9 cm / 244 cm	182.9 cm / 244 cm
Platform Size	Total platform depth (outside)	Total platform depth (outside) 91.4 cm	
	Working	15.7 m	22.1 m
jht.	Platform elevated	13.7 m	20.1 m
Height	Drive	driveable at all heights	driveable at all heights
	Turret	2.4 m	2.6 m
gth	Overall with platform	7.8 m	10.3 m
Length	Base and tires	3.7 m	3.5 m
Width	Outside std. tires	2.3 m	2.4 m
	Turret	2.2 m	2.3 m
Weight	Weight (with foam-filled tires)	7, 100 kg	12,800 kg
	Platform rotation	180 degrees	175 degrees
	Horizontal reach	12.1 m	17.4 m
	Wheelbase	2.4 m	2.4 m
	Turret rotation	360 degrees continuous	360 degrees continuous
	Turret tailswing	112 cm	133 cm
Ü	Gradeability (torque equivalent to)	50%	50%
	Sound pressure	103 dB(A) Guaranteed	112 dB(A) Guaranteed
W	hole-body vibration on the platform	pody vibration on the platform 0.4 m/sec ²	
	Ground clearance between wheels	ind clearance between wheels 27.9 cm	
Turning Radius	Inside 4WD	2.7 m	2.8 m
Turi Rac	Outside	5.7 m	5.0 m
	System voltage	12 VDC	12 VDC
Battery	Туре	Lead Acid	Lead Acid
Bat	Cold cranking amperes	950 CCA	950 CCA
	Main boom up	30 - 40 seconds (approx.)	76 - 84 seconds (approx.)
	Main boom down	40 - 50 seconds (approx.)	76 - 84 seconds (approx.)
mes	Fly boom extend	30 - 40 seconds (approx.)	50 - 70 seconds (approx.)
Operating Times	Fly boom retract	30 - 40 seconds (approx.)	25 - 45 seconds (approx.)
ratir	Jib up	20 - 30 seconds (approx.)	20 - 40 seconds (approx.)
Ope	Jib down	14 - 24 seconds (approx.)	18 - 22 seconds (approx.)
	Turret rotate - 360° (fully stowed)	rret rotate - 360° (fully stowed) 70 - 110 seconds (approx.) 16	
	Platform rotate - 180°	Platform rotate - 180° 10 - 20 seconds (approx.)	
Driving Speeds	Drive Speed (maximum-stowed)	7.2 km/h	7.2 km/h
Dri\ Spe	Drive Speed (maximum-elevated)	0.8 km/h	0.8 km/h

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Section 4 Tables

Table 4.2b Specifications and Features

		MODEL		SJ 45T	SJ 66T	
	Engine Type			Deutz D2011L03i	Deutz D2011L04i	
	Fuel Type			Die	esel	
		Fuel Tank Ca	pacity	170	1.3 L	
Deutz	Standard Oil Factory Fill		- 18°C to +45°C (0°F to 115°F)	SAE 15W-40 A	PI CF/CG/CH-4	
Engine - Deutz	Cold Lube Oil	Ambient Temperature	- 29°C to +32°C (- 20°F to 90°F)	SAE 5W-30 A	PI CF/CG/CH-4	
ū	Arctic Lube Oil Option	Limits	- 40°C to +45°C (- 40°F to 115°F)	SAE 0W-40 AI	PI CF/CG/CH-4	
	Approved Alternates			See Engine Manual		
	Lube Oil Sump Capacity			5.5 L	10.0 L	
	Туре			Shell Tellus T46		
_	Recommended Oil	Operating and Oil	Ambient Operation	+45°C	(113°F)	
ic Oi		Temperature Limits	Max. Oil Temp.	+93°C	(200°F)	
Hydraulic Oil	(Note: Cold wea	Alternate ther starting temp	es eratures can be improved	HVLP T46 (Summer)		
_ =	with Skyjack options. Please consult your nearest Skyjack service center.)		HVLP T42 (Winter)			
	Tank Capacity			223	3.3 L	
	Sound Pressure Level (ISO 3744)			73dB(A)	80dB(A)	

1071AC_AS

Tables Section 4

Table 4.3 Owner's Annual Inspection Record

	М	odel Num	nber:			Serial N	umber:_			_
*		20	20	20	20	20	20	20	20	20
**	† P 🚣	SKYJACK								

1001AB

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

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

Table 4.4 Tire/Wheel Specifications

	SJ 45T	SJ 66T	
Tire Size	30.5 cm x 41.9 cm	38.1 cm x 49.5 cm	
Туре	Foam-filled	Foam-filled	
Tire Ply Rating	10	16	
Wheel Nuts Torque	393 Nm	393 Nm	

1072AB_AS

IMPORTANT

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

Table 4.5 Maximum Platform Capacities

	SJ 45T	SJ 66T
Total Composity	227 kg	227 kg
Total Capacity	2 Persons	2 Persons
Maximum Wind	12.5 m/s	12.5 m/s
Maximum Side Force	400 N	400 N
Tilt Cutout Setting	5 degrees x 5 degrees	5 degrees x 5 degrees

1073AB_AS



Section 4 Tables

	Gross Aerial	Total Aerial Platform Load			
MODEL	Platform Weight	Wheel	LCP	OUP	
	kg	kg	kPa	kPa	
SJ 45T (Standard configuration)	7,327	3,630	930	9.5	
SJ 66T (Standard configuration)	13,027	6,300	1,140	17.8	

1074AB AS

- Standard Configuration (45T) = 4WD + Oscillating Axle + 30.5 cm x 41.9 cm Foam Tires
- Standard Configuration (66T) = 4WD + Oscillating Axle + 38.1cm x 49.5 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.
- Welder option will add approximately 158.8 kg (350 lb.) to total aerial platform weight and 79.4 kg to max. wheel load.

NOTE:

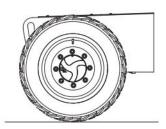
The LCP or OUP that an individual surface can withstand varies from structure to structure and is generally determined by the engineer or architect for that particular structure.

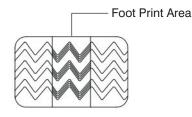
Locally Concentrated Pressure (LCP):

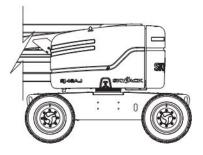
Foot Print Area identified by test.

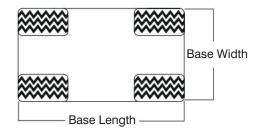
Overall Uniform Pressure (OUP):

Base Area = Length x Width











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

Tables Section 4

General Maintenance

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

Table 4.7 Maintenance and Inspection Schedule

Frequency	Daily	3 months or 150 hours Yearly	Frequency	Daily	3 months or 150 hours	Yearly
visual and Daily Maintenance Inspections	•		Rotary Actuator	А		
Labels	А		Load Cell	А		
Electrical	Α		Jib	А		
Limit Switches	Α		Boom	А		
Hydraulic	Α		Cylinders	А		
Engine Compartment			Wear Pads	А		
Main Power Disconnect Switch	Α		Hoses	А		
Batteries	Α		Power Track	А	B*†	
Swing Drive Motor	Α		Cables (66T)	А		
Turret Rotation Gear	Α		Optional Equipment/Attachments			
Rotary Manifold	Α		Hydraulic Generator (If Equipped)	А		
High Pressure Filter (45T)	Α		Battery Warmer/Hydraulic Oil Heater (If Equipped)	А		
Hydraulic Pumps	Α		Welder (If Equipped)	Α		
Muffler and Exhaust	Α		Work Light (If Equipped)	А		
Engine Pivot Tray	Α		Flashing Amber Light (If Equipped)	А		
Engine Oil Level	Α		Function Tests			
Engine Air Filter	Α		Test Main Power Disconnect Switch	А		
Fuel Leaks	Α		Base Control Console			
Control Compartment		D*+	Test Emergency Stop	А		
Base Control Console	Α	B*†	Test Function Enable Switch & All Boom Functions	Α		
Hydraulic Tank	Α		Test Platform Self-leveling	Α		
Hydraulic Oil	Α		Test Emergency Power	Α		
Hydraulic Return Filter	Α		Test Base/Off/Platform Switch	Α		
Brake and Main Manifolds	Α		Platform Control Console			
Emergency Power Unit	Α		Test Load Sensing System	Α		
Fuel Tank	Α		Test Footswitch	Α		
Fuel Leaks	Α		Test Engine Enable Switch	А	B*†	
Base			Test Emergency Stop	Α	D™I	
Turret Transportation Lock	Α		Test Steering	А		
Drive Axle	Α		Test Driving Function	А		
Oscillating Cylinder Assembly	Α		Test Driving Speed	А		
Steer Cylinder Assembly	Α		Test Emergency Power	А		
Tie Rod	Α		Test Horn	А		
Wheel/Tire Assembly	Α		Test Brakes	А		
Manuals	А		Test Manual Platform Leveling	А		
Platform Assembly	А		Test Differential Lock Switch	А		
Platform Control Console	А		Test Oscillating Axles	Α		

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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.
- $\label{eq:complex} \textbf{\uparrow} \textbf{-} \textbf{Refer to Skyjack's website @ www.skyjack.com} \ \text{for latest service bulletins prior to performing quarterly or yearly inspection.}$



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

NOTE

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

Section 4 Tables

Table 4.8 Operator's Checklist



Seri	al Number:		
Mod	del:		
Ηοι	ırmeter Reading:	Opera	ator's Name (Printed):
	e:		
	e:	Opera	ator's Signature:
	h item shall be inspected using the appropriate section of each item is inspected, check the appropriate box.	f the Sk	yjack operating manual.
		INSF	PECTION FREQUENCY
Р	- PASS		DAILY
F	- FAIL		FREQUENTLY
R	- REPAIRED	$\overline{\Box}$	ANNUALLY
NA	- NOT APPLICABLE	Ē	BI-ANNUALLY

Visual and Daily Maintenance Inspections Labels Electrical Limit Switches Hydraulic Engine Compartment Main Power Disconnect Switch Batteries Swing Drive Motor		
Electrical Limit Switches Hydraulic Engine Compartment Main Power Disconnect Switch Batteries Swing Drive Motor		
Limit Switches Hydraulic Engine Compartment Main Power Disconnect Switch Batteries Swing Drive Motor		
Hydraulic Engine Compartment Main Power Disconnect Switch Batteries Swing Drive Motor		
Engine Compartment Main Power Disconnect Switch Batteries Swing Drive Motor		
Main Power Disconnect Switch Batteries Swing Drive Motor		
Batteries Swing Drive Motor		
Swing Drive Motor		
Turret Rotation Gear		
Rotary Manifold		
High Pressure Filter (45T)		
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		
Hydraulic Return Filter		
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		

	N/A	Р	F	R
Rotary Actuator				
Load Cell				
Jib				
Boom				
Cylinders				
Wear Pads				
Hoses				
Power Track				
Cables (66T)				
Optional Equipment/Attachments				
Hydraulic Generator (If Equipped)				
Battery Warmer/Hydraulic Oil Heater (If Equipped)				
Welder (If Equipped)				
Work Light (If Equipped)				
Flashing Amber Light (If Equipped)				
Function Tests				
Test Main Power Disconnect Switch				
Base Control Console				
Test 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 Load Sensing System				
Test Footswitch				
Test Engine Enable Switch				
Test Emergency Stop				
Test Steering				
Test Driving Function				
Test Driving Speed				
Test Emergency Power				
Test Horn				
Test Brakes				
Test Manual Platform Leveling				
Test Differential Lock Switch				
Test Oscillating Axles				
Test Cables (66T)				

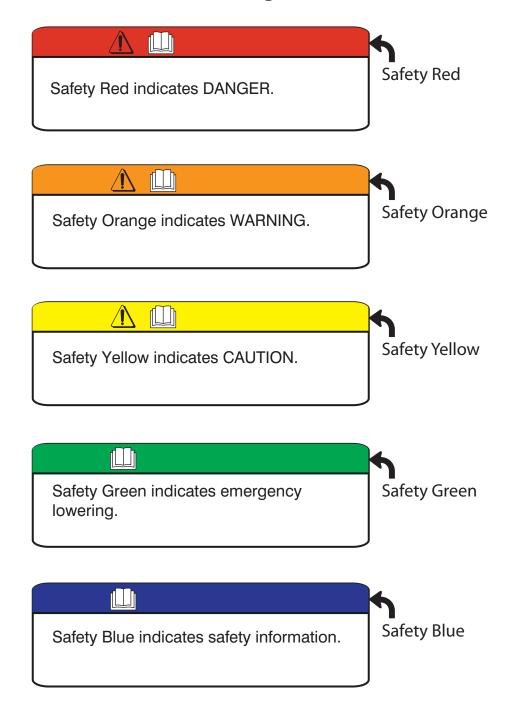
Note:

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

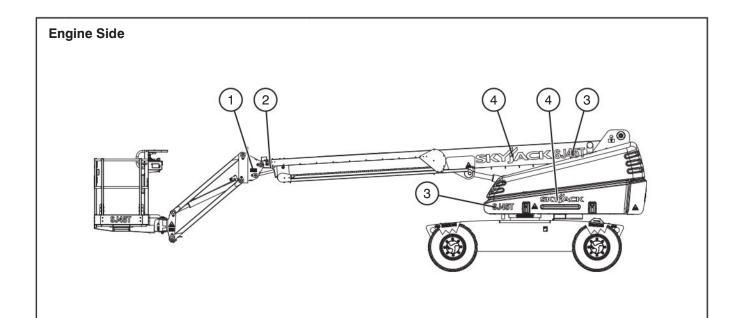
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Notes	
	_
	_
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	_
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	_

Label Legend

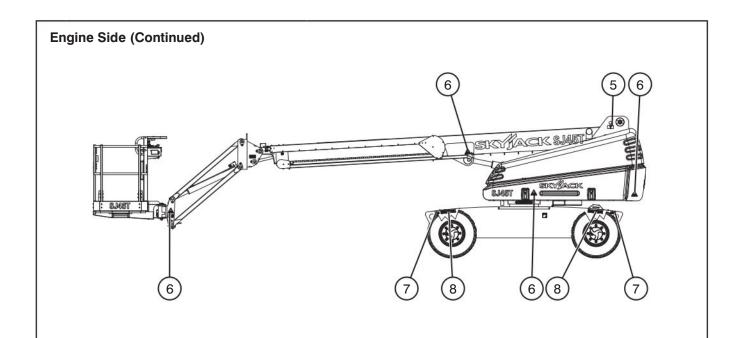


Labels Section 5



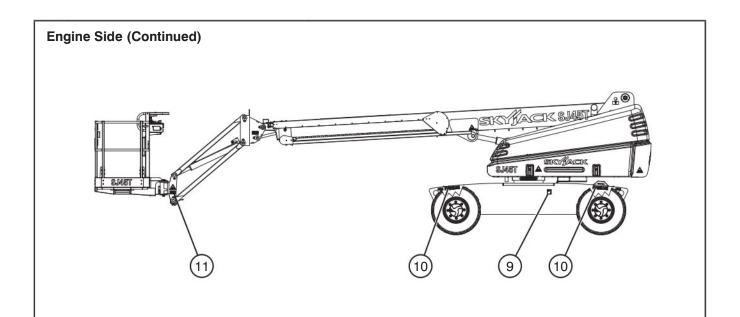
No.	Label Pictorial	Description
1		Crushing Hazard Danger - Crushing hazard
2	SS CONTRACTOR OF THE PARTY OF T	Warning - Do Not Alter Do not alter or disable limit switches or other safety devices.
3	SJ45T	Model Number* Product Identifier *Model number will vary, may not be as shown.
4	SKYJACK	Skyjack Logo Skyjack

Section 5 Labels

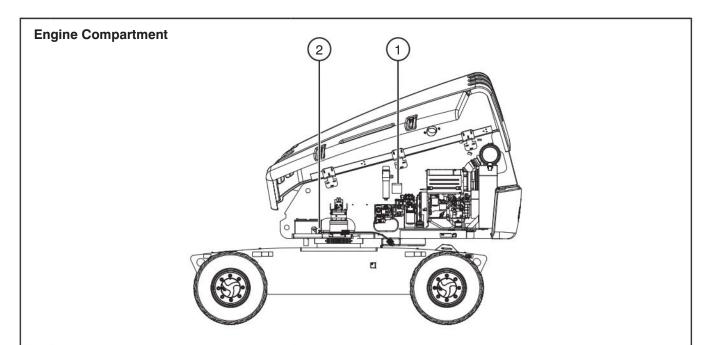


No.	Label Pictorial	Description
5	3	Lift Points Only use these points for lifting.
6	→ E T S = -	Body Crushing Hazard Danger - Body crushing hazard
7		Lift and Tie Down Points Only use these points for lifting or tying down.
8		Wheel Load* Indicates rated wheel load. *Wheel load will vary over different MEWPs.

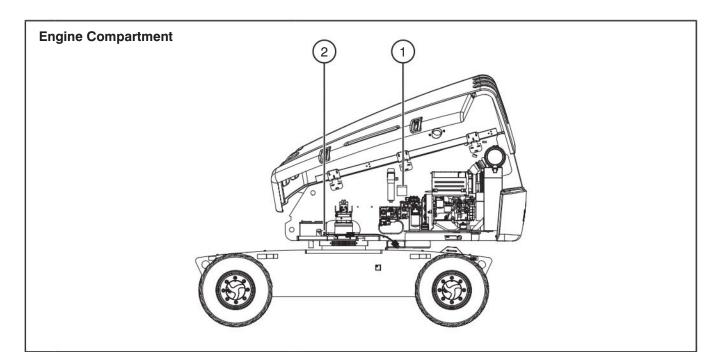
Labels Section 5



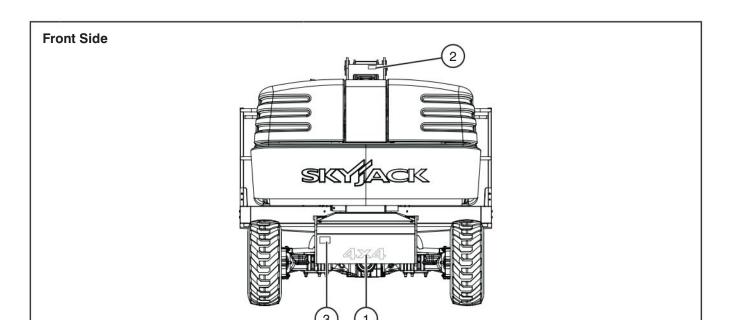
No.	Label Pictorial	Description
9	dB	Sound Power Level Guaranteed maximum sound power level
10		Wheel Specifications Refer to manual for wheel type, offset, pressure and torque.
11		Tie Down Points Only use these points for tying down.



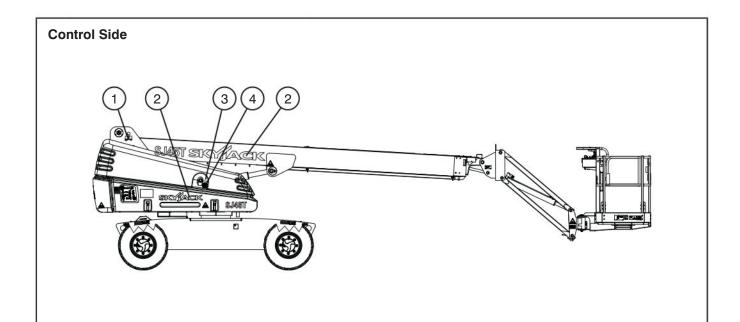
No.	Label Pictorial	Description
No.	Label Pictorial	Winching/Towing/Pushing Procedure Refer to Operating manual. 1. Block or chock wheels to prevent MEWP from rolling. 2. Turn main power disconnect switch to off position. At engine side: 3. Locate bypass valve (marked with yellow colour) on inboard side of drive pump. 4. Rotate bypass valve flat using pliers or 1/4" (7mm) wrench by 90 degrees (clockwise). At hydraulic tank side: 5. Locate brake valve and pump. 6. Push in black knob. 7. Pump by 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.



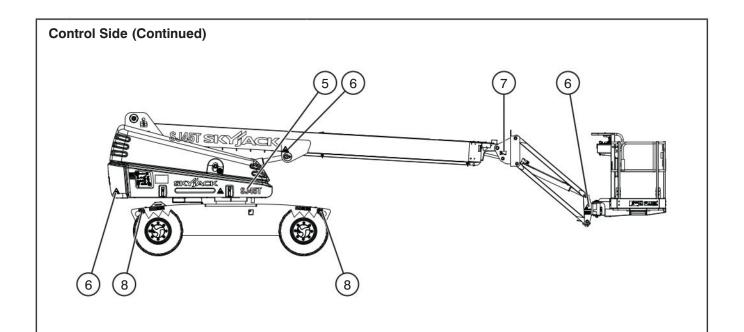
No.	Label Pictorial	Description
2		Main Power Disconnect Main power disconnect lever



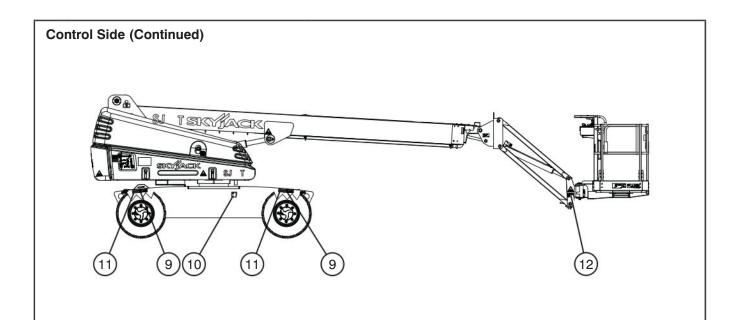
No.	Label Pictorial	Description
1	4,74	4x4 (If Equipped) Product identifier - 4 wheel drive
2		Warning - Do Not Alter Do not alter or disable limit switches or other safety devices.
3	This METER made apparent of the Student published for the Meter Registers Countries on Fig. This about T Mo. (CC) Made a service Subject service Made a service Subject service Made a se	Serial Plate* Product identification and specifications *Serial plate will vary, may not be as shown.



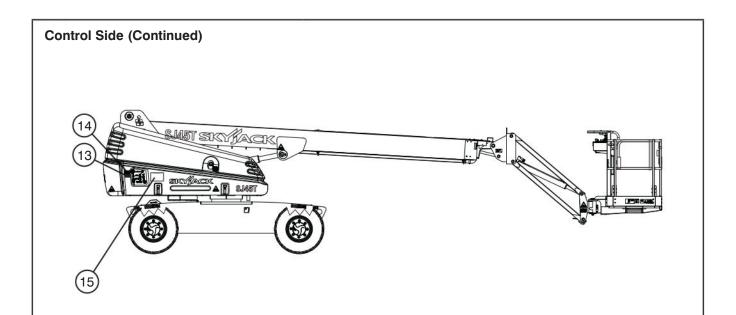
No.	Label Pictorial	Description
1	3	Lift Points Only use these points for lifting.
2	SKYJACK	Skyjack Logo Skyjack
3		Diesel Use diesel fuel only.
4		No Smoking Do not smoke near this location.



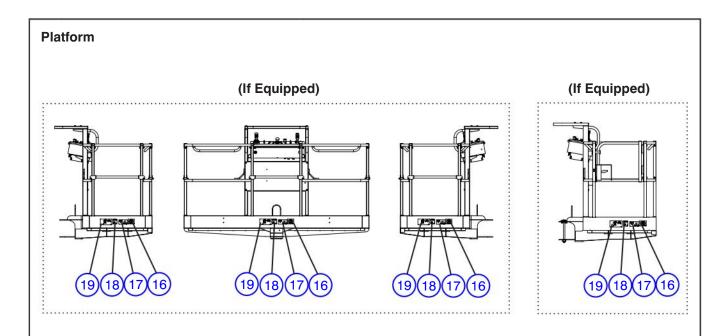
No.	Label Pictorial	Description
5	SJ45T	Model Number* Product Identifier *Model number will vary, may not be as shown.
6	₽	Body Crushing Hazard Danger - Body crushing hazard
7		Crushing Hazard Danger - Crushing hazard
8		Lift and Tie Down Points Only use these points for lifting or tying down.



No.	Label Pictorial	Description
9	### kg (lb)	Wheel Load* Indicates rated wheel load. *Wheel load will vary over different MEWPs.
10	L _{WA}	Sound Power Level Guaranteed maximum sound power level
11		Wheel Specifications Refer to manual for wheel type, offset, pressure and torque.
12		Tie Down Points Only use these points for tying down.

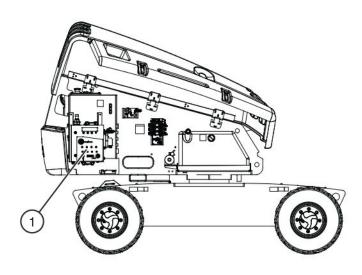


No.	Label Pictorial	Description
13	Model S.N	Annual Inspection Ensure that work platform has received annual inspection prior to operation.
14	EMERGENCY LOWERING PROCEDURE At the Base Controls: 1. Pull out the emergency stop button. 2. Turn the PLATFORM/OFFIBASE key switch to the "5" position. 3. Select "	Emergency Lowering Procedure In case of emergency, follow procedure outlined in label to lower the platform.
15	Character is beginning to be given that has the standard Makin Plear including Contribut that Furthern has been from the standard Contribution from the standard Contribution (Section 1) and the stan	EWPA Clearance Requirements Clearance requirements for operating non-insulated mobile plant, including elevating work platforms near power lines.

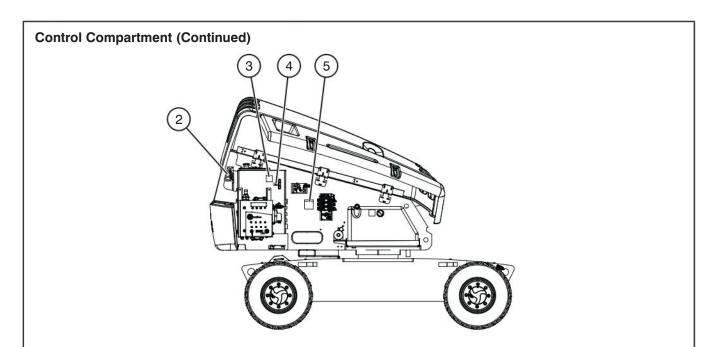


No.	Label Pictorial	Description
16		No Jewelry Caution - Do not wear jewelry.
17	N (lb) (mph)	Horizontal Load Rating Apply no more than the indicated side load. Operate below indicated wind speed only.
18	□ P an	Operator's Daily Inspection Refer to the Operating manual. Perform visual inspection and function tests at the beginning of each shift. Refer to Table 4.7 Maintenance and Inspection Schedule.
19	kg (lb)	Platform Capacity Rated work load in each configuration. Rated work load includes the weight of both personnel and material, and maximum number of people in each configuration. Do not exceed total weight or maximum number of people. Load platform uniformly. *Platform capacity will vary over different MEWPs.

Control Compartment

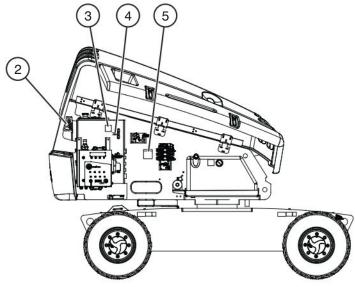


No.	Label Pictorial	Description
1		Push "breaker back in to reset. Select and hold "" to enable error blink code for engine control unit (ECU). Read "" operating manual. Push and hold "o" to start engine or "o" to enable the emergency power unit. Select "" to rotate platform to the left or "" to rotate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

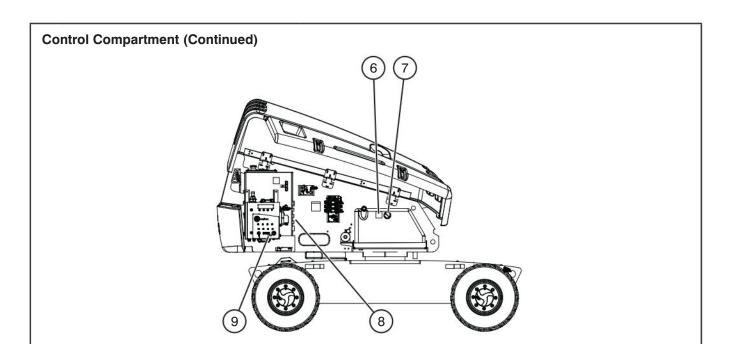


No.	Label Pictorial	Description
2		Grease Points Maintenance Refer to service and maintenance manual " " for lubricating MEWP.
3		Hydraulic Oil Replace hydraulic fluid with Shell Tellus T46 or approved alternate (see Table 4.2b). (Note: Cold weather starting temperatures can be improved with Skyjack options. Please consult your nearest Skyjack service center.)
4		Hydraulic Oil Level Indicates minimum/maximum oil level.

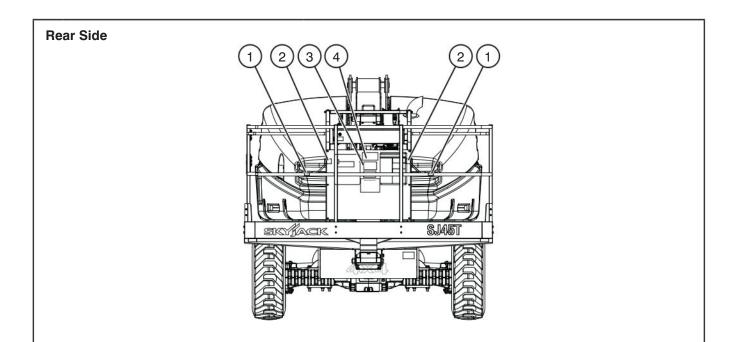
Control Compartment (Continued)



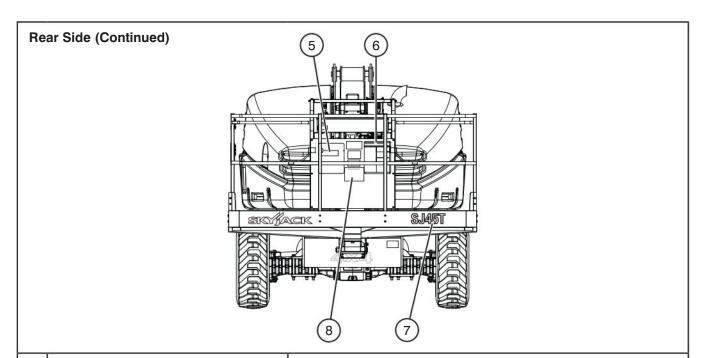
No.	Label Pictorial	Description
No.	Label Pictorial	Winching/Towing/Pushing Procedure Refer to Operating manual. 1. Block or chock wheels to prevent MEWP from rolling. 2. Turn main power disconnect switch to off position. At engine side: 3. Locate bypass valve (marked with yellow colour) on inboard side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



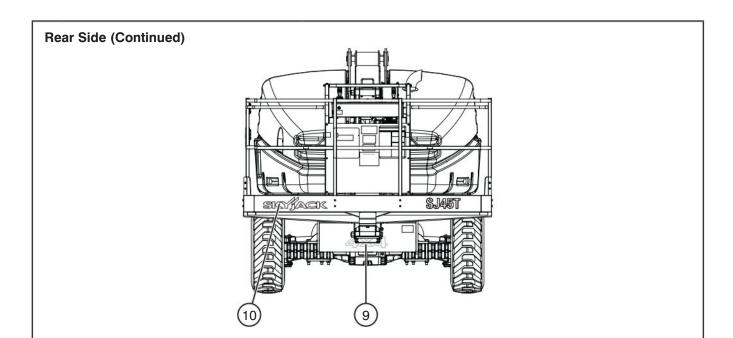
No.	Label Pictorial	Description
6		Diesel Use diesel fuel only.
7		No Smoking Do not smoke near this location.
8	40 -	Connect AC Supply Connect AC supply here.
9		Glow Plug Procedure When " glow plug (diesel) light is on, " wait and do not " start engine.



No.	Label Pictorial	Description	
1		Warning - No Step No step warning	
2	× 1	Fall Protection Anchorage Anchor safety belt/harness tethers here. Rated for one (1) person per anchorage.	
3	N (lb) (km/h) (mph)	Horizontal Load Rating Apply no more than indicated side load. Operate below indicated wind speed only.	
4	kg (lb)	Platform Capacity* Rated work load in each configuration. Rated work load includes the weight of both personnel and material, and maximum number of people in each configuration. Do not exceed total weight or maximum number of people. Load platform uniformly. *Platform capacity will vary over different MEWPs.	



No.	Label Pictorial	Description	
5		Manual Box Indicates location of operating manual.	
6	A UI & & & & & & & & & & & & & & & & & & &	Hazard Identification Refer to Section 1: Safety Rules. Read and understand outlined risks associated with this work platform prior to operation.	
7	SJ45T	Model Number* Product Identifier *Model number will vary, may not be as shown.	
8	Chea uses Requirements for Sperifully Res Instituted Field Section 1 and	EWPA Clearance Requirements Clearance requirements for operating non-insulated mobile plant, including elevating work platforms near power lines.	

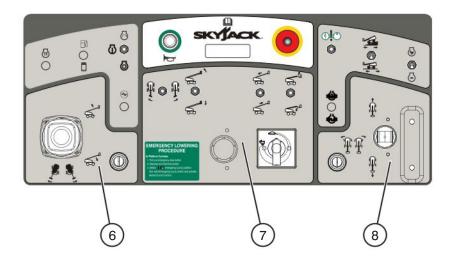


No.	Label Pictorial	Description		
9	4.24	4x4 (If equipped) Product identifier - 4 wheel drive		
10	SKYJACK	Skyjack Skyjack		

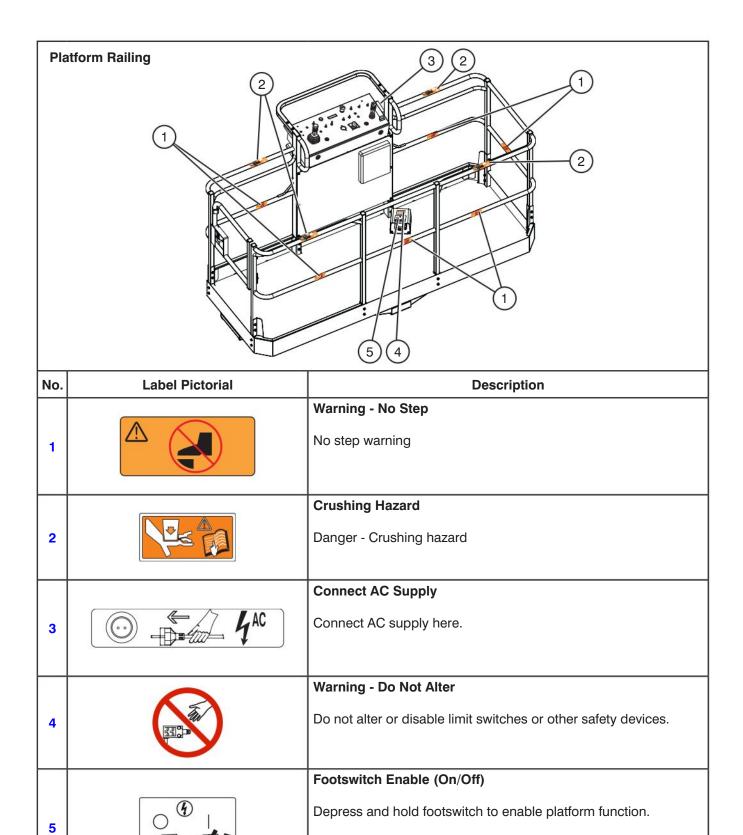
Platform Control Console 1 2 3 4

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 as to their closess. 1 (bound and their closess). 2 (bound and their best best best and a built of their closess). 3 (bound and their best best best and a built of their closes). 5 (bound and their best best best and a built of their closes). 5 (bound and their best best best and a built of their closes). 5 (bound and their closes).	Emergency Lowering Procedure Follow procedure outlined in label to lower the platform.	
3	SKYJACK O	E-Stop/Horn Select "born" to sound horn. Read operating manual "lim". Push "emergency stop to stop engine and disable controls.	
4		Engine Controls/Emergency Power Unit Select "*** to enable emergency power unit. Select "*** now 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.	

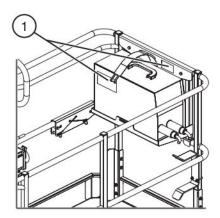
Platform Control Console (Continued)



No.	Label Pictorial	Description	
5	i	Boom Speed Adjuster Dial Adjust dial to vary speed of fly boom extension/retraction, jib raising/ lowering and platform rotation movements.	
6		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.	
7	ESTINGUISH THE PROPERTY OF THE	Select "" to rotate platform to the left or "" to the right. Select "" to tilt platform up or "" to tilt platform down. Select "" to extend fly boom or "" to retract fly boom. Select "" to move jib up or "" to move jib down.	
8	Å, Å	Push and hold controller in this direction "p" to drive forward or "p" to drive backward. Push and hold controller in this direction "p" to steer left or "p" to steer right.	



Optional Equipment/Attachments



No.	Label Pictorial	Description
1	Laber Fictional Image: Approximate the property of the prop	Welder Weight Indicates rated weight of welder.

Notes

