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OPERATING MANUAL (ANSI/CSA)

TELESCOPIC BOOMS

MODELS **SJ82T** **SJ86T**

169368AJA November 2018

SKYJACK

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This manual is based on Serial Number(s):

SJ82T SJ86T 97 100 001 & Above

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The Safety Alert Symbol identifies important safety messages on aerial platform, 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 aerial platform.

Table of Contents

Section 1 - About Your Aerial Platform	5
Read and Heed	5
Safety Rules.....	6
Section 2 - Familiarization	13
2.1 Familiarization of Telescopic Boom Series.....	13
2.2 Component Identification	14
2.3 Visual & Daily Maintenance Inspections	22
2.4 Function Tests.....	31
2.5 Winching and Towing Procedure	47
2.6 Emergency Lowering Procedures.....	49
Section 3 - Operation	51
3.1 General	51
3.2 Major Components.....	52
3.3 Major Assemblies	53
3.4 Serial Number Nameplate	53
3.5 Component Identification (Optional Equipment/Attachments).....	54
3.6 Operator's Responsibility	57
3.7 Start Operation	58
3.8 Refueling Procedure.....	65
3.9 Loading/Unloading	66
3.10 Chassis Tilt.....	68
3.11 Technical Diagrams	69
Section 4 - Tables	73
Table 4.1 Standard and Optional Features.....	73
Table 4.2a Specifications and Features	74
Table 4.2b Specifications and Features	75
Table 4.3 Owner's Annual Inspection Record.....	76
Table 4.4 Maximum Platform Capacities.....	76
Table 4.5 Tire/Wheel Specifications	77
Table 4.6 Floor Loading Pressure	78
Table 4.7 Operator's Daily Inspection Checklist.....	79
Section 5 - Labels	81

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

Aerial 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 (Model SJ 8XT) aerial platform is designed to transport and raise personnel, tools and materials to overhead work areas.

Use of Equipment

The aerial platform 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 aerial platform. 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 aerial platform 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 aerial platform. Compare the labels on the aerial platform 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 SJ 8XT 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 SKYJACK Service Department for warranty statement extensions or exclusions.

Optional Accessories

The SKYJACK aerial platform 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:

☎ : 800 275-9522

☎ : 630 262-0006

Include the model and serial number for each applicable aerial platform.

Scope of this Manual

a. **This manual applies** to the ANSI/SIA and CSA versions of the Telescopic Boom aerial platform models listed on [Table 4.1](#).

- **Equipment identified** with "ANSI" meets the ANSI/SIA A92.5-2006 standard.
- **Equipment identified** with "CSA" meets the CSA B354.4-02 standard.

b. **CSA (Canada)**

Operators are required to conform to national, territorial/provincial and local health and safety regulations applicable to the operation of this aerial platform.

c. **ANSI/SIA (United States)**

Operators are required by the current ANSI/SIA A92.5 standards to read and understand their responsibilities in the manual of responsibilities before they use or operate this aerial platform.

**WARNING**

Failure to comply with your required responsibilities in the use and operation of the aerial platform 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 aerial platform is mandatory. The following pages of this manual should be read and understood completely before operating the aerial platform.

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.

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Electrocution Hazard

This aerial platform 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 aerial platform does not provide protection from contact with or proximity to an electrically charged conductor.

Per ANSI A92.5-2006 8.10(7)

“The operator shall perform only the work for which he or she is qualified, in compliance with all applicable safety related work practices intended to prevent electric shock covered by the Code of Federal Regulations (CFR) 1910.333. The operator’s level of competence shall be established only by persons qualified to do so. Operators shall maintain the appropriate minimum approach distance (**MAD**) from energized power lines and parts covered by CFR 1910.333 (c).”

Unqualified persons must maintain a minimum approach distance of 10 feet from any energized power line up to 50 kV. Energized power lines over 50 kV require a greater minimum approach distance to be maintained. Refer to CFR 1910.333.

As per CSA B354.4-02

“The operator shall maintain the minimum safe approach distance (**MSAD**) from energized conductors at all times in accordance with the authority having jurisdiction.”

Refer to CFR 1910.333 or the authority having jurisdiction.

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



DANGER

Avoid Power Lines

Minimum Safe Approach Distance

ANSI/SIA A92.6-2006 & CSA B354.2-01 Requirements

Voltage Range (Phase to Phase)	Minimum Safe Approach Distance (Feet)
0 to 300V	Avoid Contact
Over 300V to 50KV	10
Over 50KV to 200KV	15
Over 200KV to 350KV	20
Over 350KV to 500KV	25
Over 500KV to 750KV	35
Over 750KV to 1000KV	45

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

60023AD-ANSI

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 aerial platform and jobsite.
- **TURN** main power disconnect switch “O” off when leaving the aerial platform unattended. Remove the key to prevent unauthorized use of the aerial platform.
- **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 aerial platform .



- **AVOID** entanglement with ropes, cords or hoses.
- **AVOID** falling. Stay within the boundaries of the guardrails. Maintain firm footing on the platform floor at all times while working thereon.



- **ENSURE** all occupants wear personal fall protection equipment.

- **DO NOT** raise the aerial platform or operate elevated in windy or gusty conditions that exceed the limits specified in [Section 4, Table 4.4](#).



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



- **DO NOT** elevate the aerial platform 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 aerial platform.



- **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 aerial platform 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 aerial platform can be elevated. After elevation, the drive function must not be activated.



- **DO NOT** drive elevated on a soft or uneven surface.



- **DO NOT** ascend or descend a grade steeper than 45% (4WD). Boom elevated driving must only be done on firm, level surfaces.



Safety Precautions (Continued)

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

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



- **BE AWARE** of blind spots when operating the aerial platform.



- **DO NOT** exert horizontal (manual) force on aerial platform that exceeds the limits specified in [Table 4.4](#).



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



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



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



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



- **DO NOT** use boom to push, pull other objects or to lift the chassis.



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



- **DO NOT** raise the aerial platform while it is on a truck, forklift or other device or vehicle.



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



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

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



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



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

- **DO NOT** use the aerial platform without guardrails, locking pins and the entry gate/drop bar 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 aerial platform.



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

- **DO NOT** distribute load unevenly.



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

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



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



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

- **DO NOT** leave aerial platform unattended with key in key switch.



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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.

All occupants of this aerial platform must wear personal fall protection equipment.

As per the ANSI A92.5-2006 standard, "Principal fall protection is provided by the guardrail system. The user shall direct and monitor the operator to ensure that all components of the guardrail system are in place. The user shall direct and monitor the occupants of the work platform to ensure that they wear a personal fall arrest system to protect against the potential effects of ejection or a fall restraint system to prevent a free fall."

Fall restraint and fall arrest systems are defined within the ANSI A92.5 Manual of Responsibilities shipped with this aerial platform.

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.

CSA B354.4-02 requires the use of a fall arrest system, therefore Canadian users must use personal fall arrest protection as opposed to fall restraint.

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 aerial platform should only be done using the three points of contact.

- **Use only equipped access openings.**
- **Enter and exit only when the aerial platform 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 aerial platform 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 aerial platform or the ground at all times during entering and exiting.

**WARNING**

An operator should not use any aerial platform 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 (see NFPA 505).
- Perform a thorough jobsite inspection prior to operating the aerial platform, 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

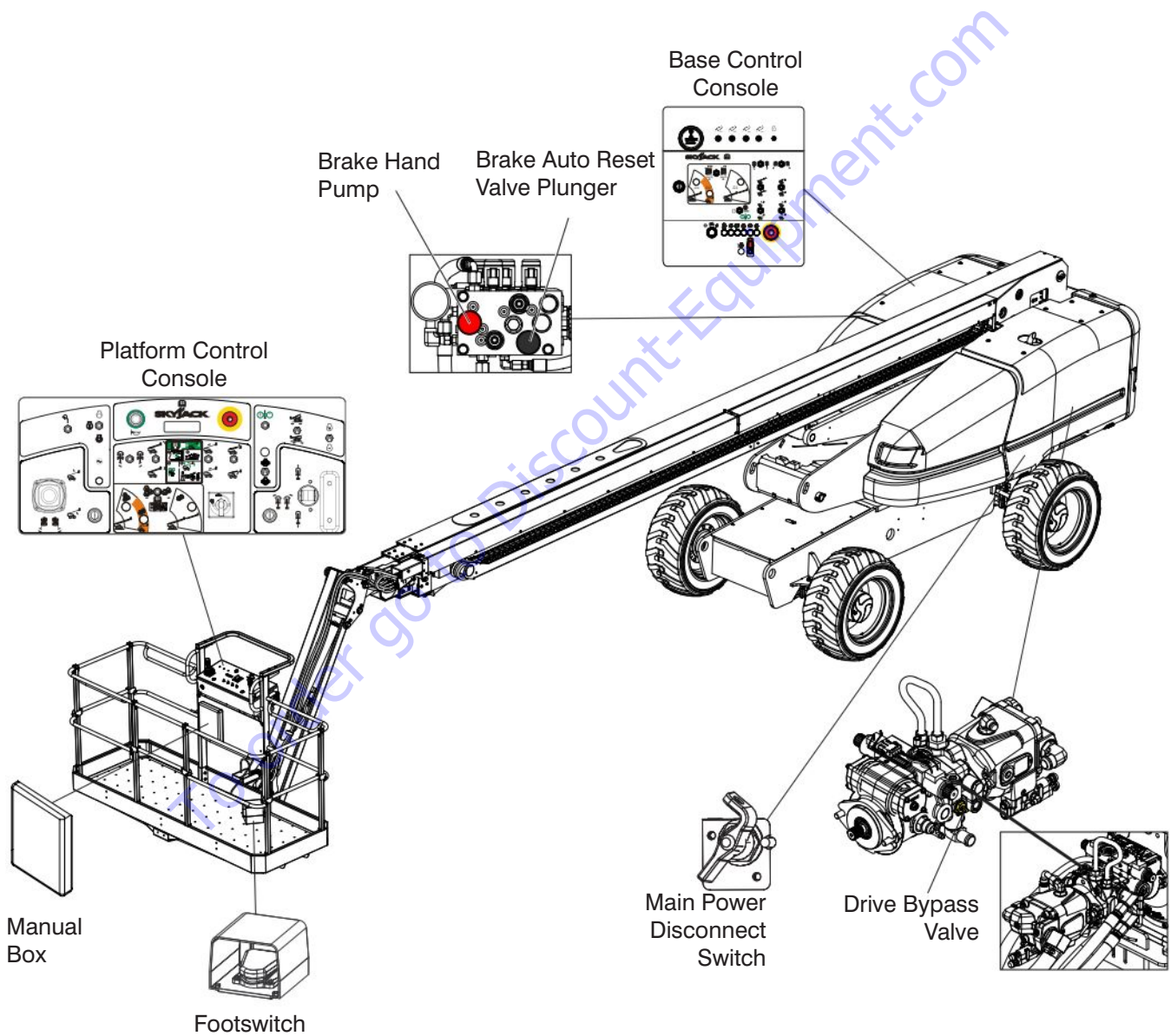


WARNING

Aerial Platform Familiarization should be given only to individuals who are QUALIFIED/COMPETENT and TRAINED to operate an aerial platform.

Do not operate this aerial platform 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 aerial platform.



FAMILIARIZATION

2.2 Component Identification

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

NOTE

This aerial platform is equipped with dual platform capacity. Select desired platform capacity (“high” or “low”) using platform capacity selector switch.

2.2-1 Main Power Disconnect Switch

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

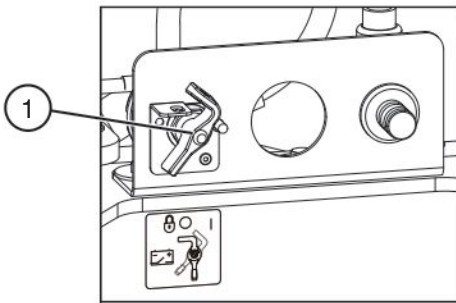


Figure 2-1. Main Power Disconnect Switch

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

2.2-2 Tilt Switch

The tilt switch is located within the base control console. It is designed to prevent driving when the aerial platform is on a slope greater than a predetermined limit.



WARNING

If aerial platform becomes tilted causing alarm to sound, the platform must be fully lowered immediately. Ensure that aerial platform is on a firm, level surface before operating the aerial platform. Refer to Section 3.10 for instructions regarding recovery from an inclined position.

2.2-3 Drive Bypass Valve

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

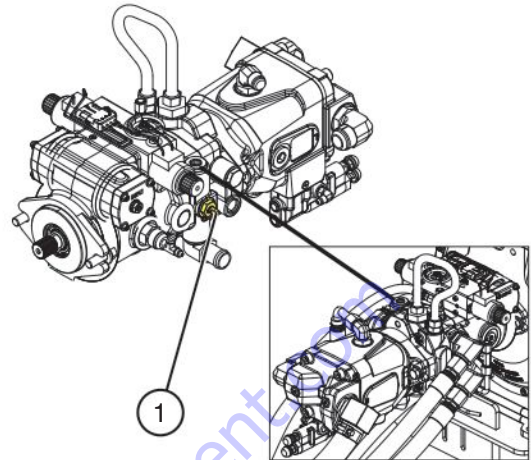


Figure 2-2. Drive Bypass Valve

1. **Drive Bypass Valve with Override Stems** - This valve, when loosened 90 degrees clockwise, is used to override drive relief valves so that the aerial platform can be loaded or unloaded from a trailer using a winch line.

2.2-4 Brake System

The brake system is located in the control compartment. The brakes must be manually disengaged before pushing, winching or towing. Refer to Section 2.5-1 for procedure on how to release brakes manually. The system contains the following controls:

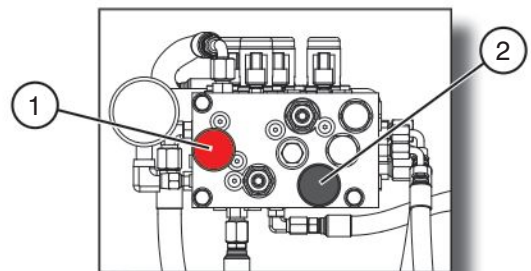


Figure 2-3. Brake System

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

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 instructions regarding testing differential lock switch.



WARNING

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

2.2-6 All Motion Alarm

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

2.2-7 Turret Transportation Lock

This locking device is located in the turret.

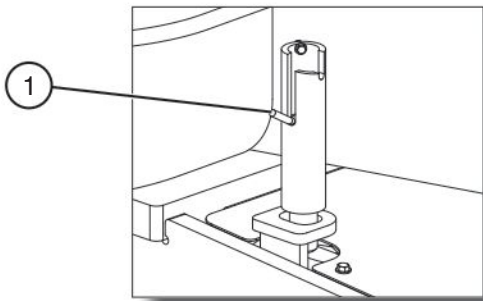


Figure 2-4. Turret Transportation Lock

1. **Turret Transportation Lock** - This locking device is used to lock turret in place during shipping only.

Refer to [Section 3.9-2](#) for procedure on how to lock the turret.

2.2-8 Footswitch

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

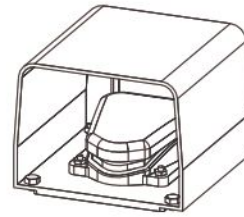


Figure 2-5. Footswitch

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.

2.2-9 Manual Storage Box

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



2.2-10 Base Control Console

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

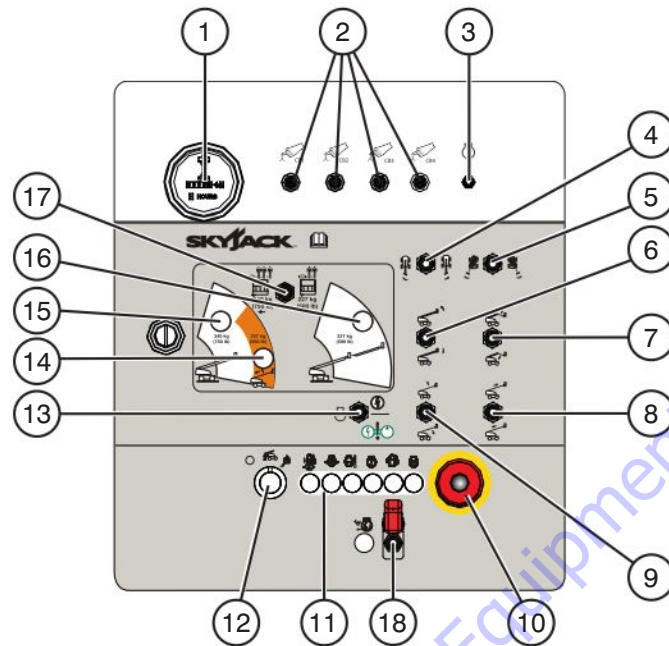


Figure 2-6. Base Control Console

1. **Hourmeter** - This gauge records accumulated operating time of engine.
2. **Circuit Breakers** - In the event of a power overload or positive circuit grounding, the circuit breaker pops out. Push breaker back in to reset.
3. **Engine Diagnosis Switch** - When held in either direction, this switch “⚠” enables an error blink code for engine control unit (ECU).
4. **Platform Rotation Switch** - This switch controls “↶” left or “↷” right rotation of platform.
5. **Turret Rotation Switch** - This switch controls “↶” left or “↷” right rotation of turret.
6. **Platform Leveling Override Switch** - This switch overrides automatic leveling of platform and controls “↶” tilting up or “↷” tilting down of platform.
7. **Jib Up/Down Switch (If Equipped)** - This switch controls “↶” up or “↷” down movement of jib.
8. **Boom Extend/Retract Switch** - This switch controls “↶” extension or “↷” retraction of fly boom.
9. **Main Boom Raise/Lower Switch** - This switch controls “↶” raising or “↷” lowering of main boom.
10. **Emergency Stop Button** - This red “mushroom-head” “⊛” pushbutton disconnects power to control circuit and shuts engine off.

2.2-10 Base Control Console (Continued)

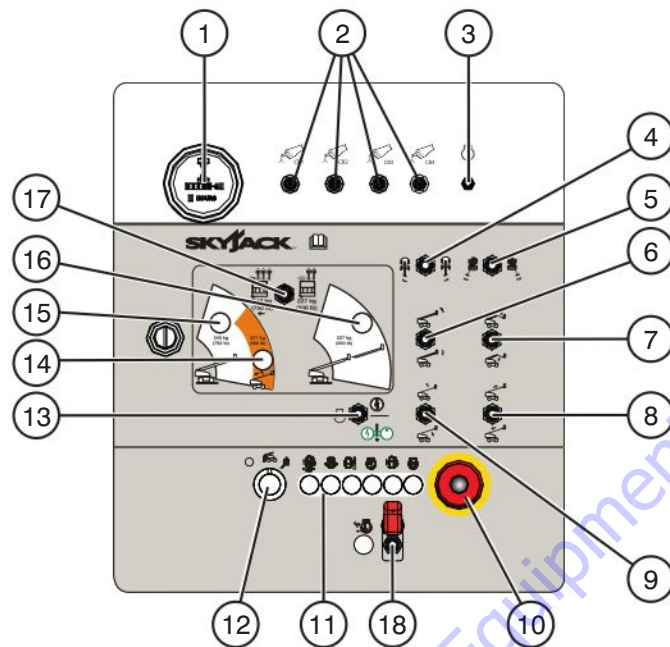
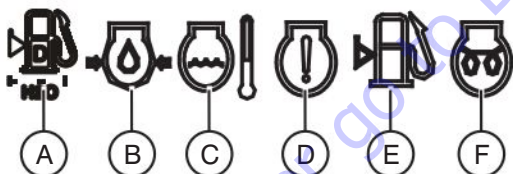


Figure 2-6. Base Control Console

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



- A. **Water In Fuel Light** - This light indicates water separator is full. Open drain to release water. Engine damage could occur if ignored for excessive length of time.
- B. **Engine Oil Pressure** - This light indicates low engine oil pressure.
- C. **Engine Coolant Temperature/Level** - This light indicates overheating of engine coolant and low level of engine coolant.
- D. **Engine** - This light indicates failure in engine control system.
- E. **Fuel** - This light indicates low fuel level.
- F. **Glow Plug (Diesel)** - This light illuminates until glow plugs have completed their timed cycle. When the lamp goes out, the engine is ready to be started.

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

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

14. **Capacity Zone Border Light** - Indicates aerial platform is at limits of travel for high capacity zone. Lower “” and “” extend functions are not available.

15. **High Capacity Zone Indicator Light** - Indicates aerial platform is in “high” platform capacity zone. Refer to [Table 4.4](#).

2.2-10 Base Control Console (Continued)

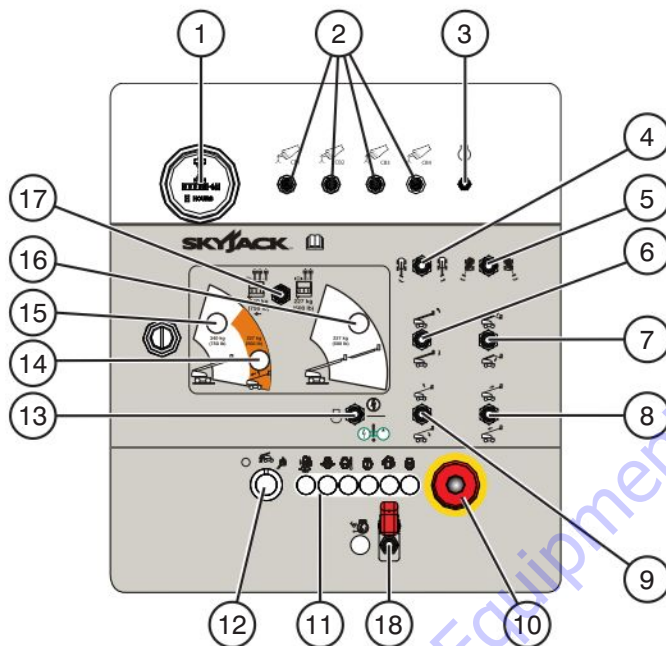


Figure 2-6. Base Control Console

16. **Low Capacity Zone Indicator Light** - Indicates aerial platform is in “low” platform capacity zone. Refer to [Table 4.4](#).
17. **Platform Capacity Selector Switch** - This two position switch allows the operator to select either “high” or “low” platform capacity.
18. **Positive Air Shutoff Switch (If Equipped)** - This switch allows the operator to shut off the air supply to the engine if the engine continues running after the main power is shut down.

2.2-11 Platform Control Console

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

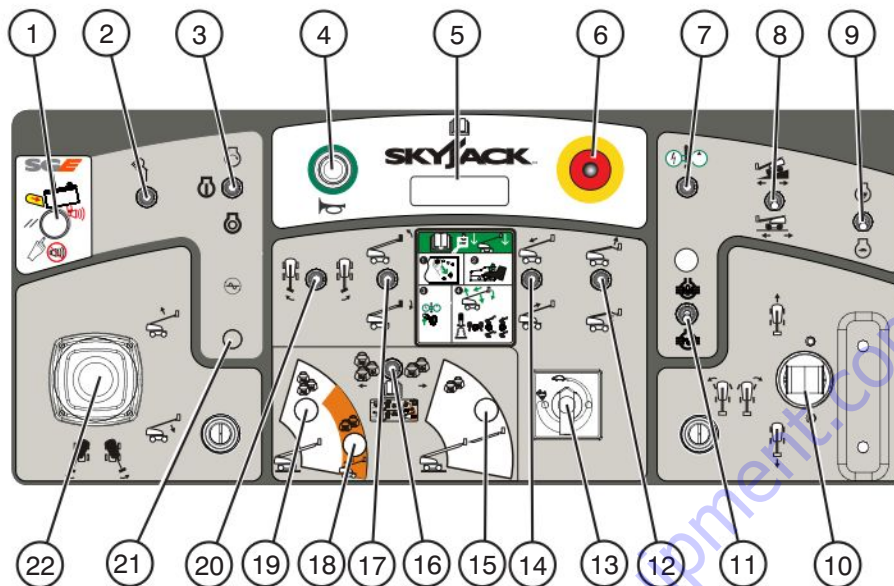






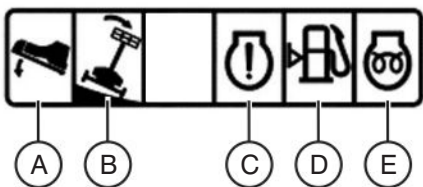


Figure 2-7. Platform Control Console

- 1. **Secondary Guarding Electrical (SGE) Reset Button (If Equipped)** - This button, when depressed, shuts off the audible/visual alarm from the SGE.
- 2. **Work Light Switch (If Equipped)** - This switch turns on work light.
- 3. **Engine Start/On/Off Switch** - This switch, when held momentarily in “” start position, starts engine. Once started, the switch returns to “” on position. When in “” off position, it turns engine off.
- 4. **Horn Pushbutton** - This “” pushbutton sounds an automotive-type horn.
- 5. **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 aerial platform chassis is at an inclination that activates the tilt sensor. At this inclination, an audible alarm will sound at the platform. Refer to [Section 3.10](#) for instructions regarding recovery from an inclined position.
 - C. **Engine** - This light indicates failure in engine control system.
 - D. **Fuel** - This light indicates low fuel level.
 - E. **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.
- 6. **Emergency Stop Button** - This red “mushroom-head” “” pushbutton disconnects power to control circuit and shuts engine off.
- 7. **Emergency Power Unit** - This switch “” enables emergency power unit when engine is off.



2.2-11 Platform Control Console (Continued)

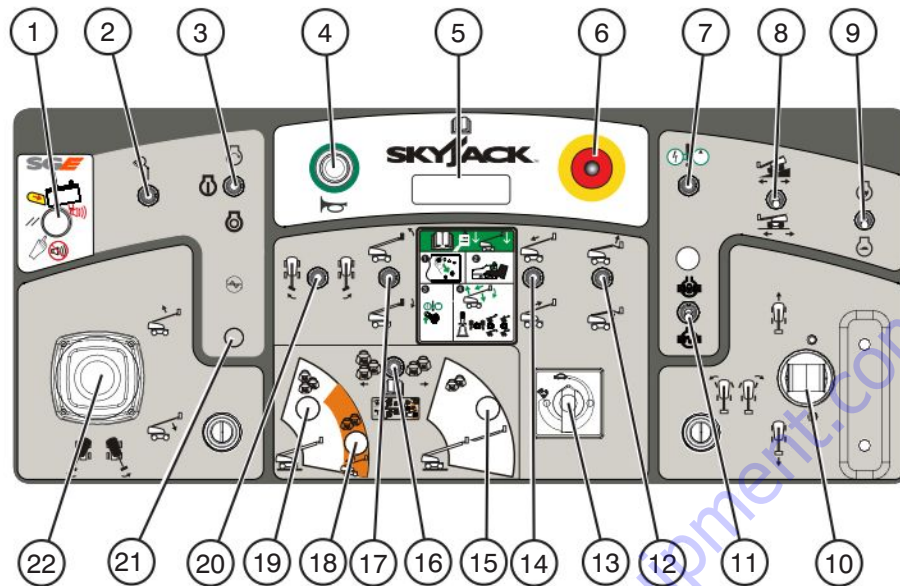


Figure 2-7. Platform Control Console

- 8. Torque Switch** - This switch selects “” low or “” high torque. Select “” low torque (higher speed) or “” high torque (lower speed). Select “” high torque when driving on a slope.
- 9. Low/High Throttle Switch** - This switch allows selection between “” low and “” high engine throttle speeds.
- 10. Drive/Steer Controller** - This single-axis lever controls driving “” forward or “” backward. The rocker switch controls steering “” left or “” right. Internal springs return it to neutral when released.
- 11. 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.
- 12. Jib Up/Down Switch** - This switch controls “” up or “” down movement of jib.
- 13. Function Speed Adjuster Dial** - This variable-speed adjuster “” controls speed of fly boom extension/retraction, jib raising/lowering and platform rotation movements. This is used with switches 12, 14 and 20.
- 14. Boom Extend/Retract Switch** - This switch controls “” extension or “” retraction of fly boom.
- 15. Low Capacity Zone Indicator Light** - Indicates aerial platform is in “low” platform capacity zone. Refer to [Table 4.4](#).
- 16. Platform Capacity Selector Switch** - This two position switch allows the operator to select either “high” or “low” platform capacity.
- 17. Platform Leveling Override Switch** - This switch overrides automatic leveling of platform and controls “” tilting up or “” tilting down of platform.

2.2-11 Platform Control Console (Continued)

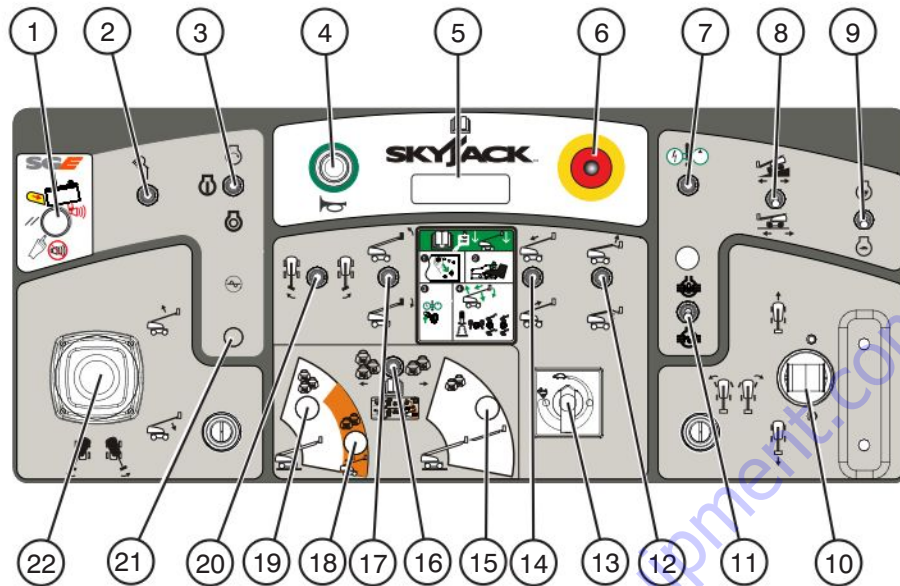






Figure 2-7. Platform Control Console



18. **Capacity Zone Border Light** - Indicates aerial platform is at limits of travel for high capacity zone.

Lower “” and “” extend functions are not available.


19. **High Capacity Zone Indicator Light** - Indicates aerial platform is in “high” platform capacity zone. Refer to [Table 4.4](#).





20. **Platform Rotation Switch** - This switch controls

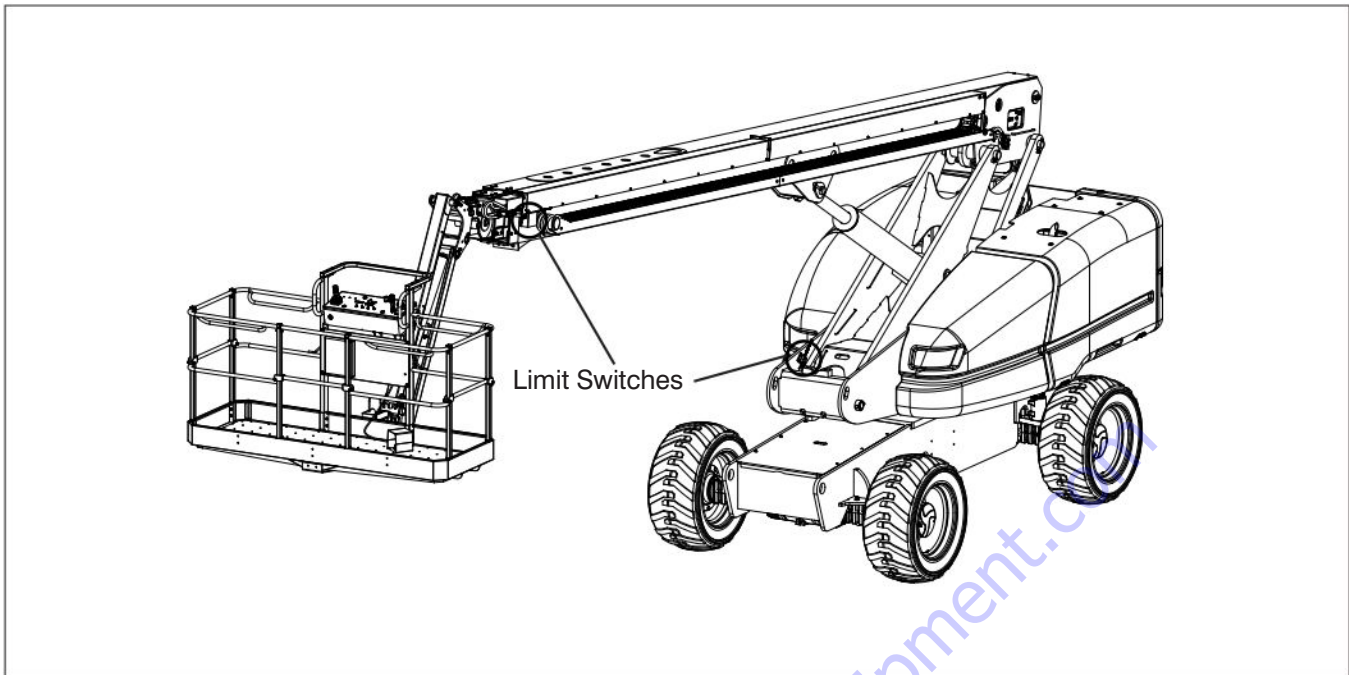
“” left or “” right rotation of platform.

21. **Generator On/Off Switch (If Equipped)** - This switch turns the hydraulic generator “” on or “” off.

NOTE

All functions are disabled while the generator switch is “” on.

22. **Boom/Turret Controller** - This dual-axis lever controls “” raising or “” lowering of main boom or rotating “” left or “” right of turret.



2.3 Visual & Daily Maintenance Inspections

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



WARNING

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



WARNING

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



CAUTION

Ensure aerial platform 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 aerial platform.

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

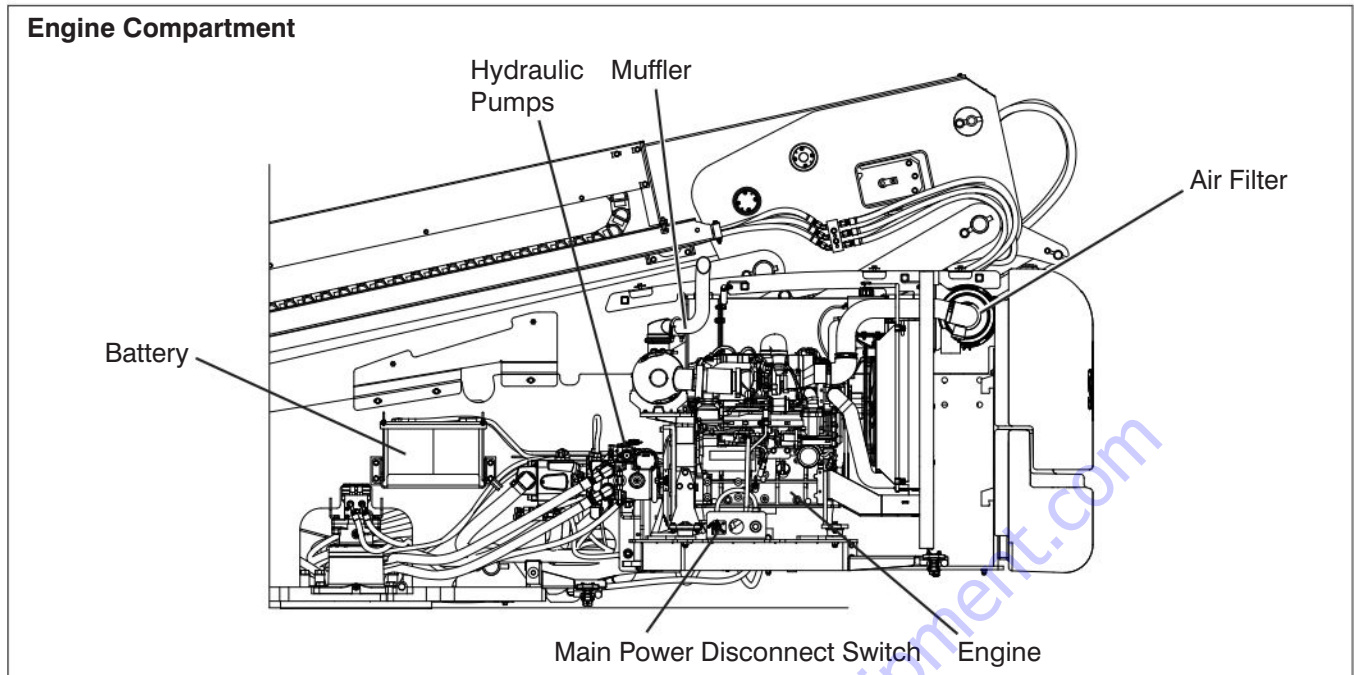
Ensure limit switches are properly secured with no signs of visible damage and movement is not obstructed.

2.3-4 Hydraulic

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

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 aerial platform



2.3-5 Engine Compartment

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

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

 **WARNING**

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

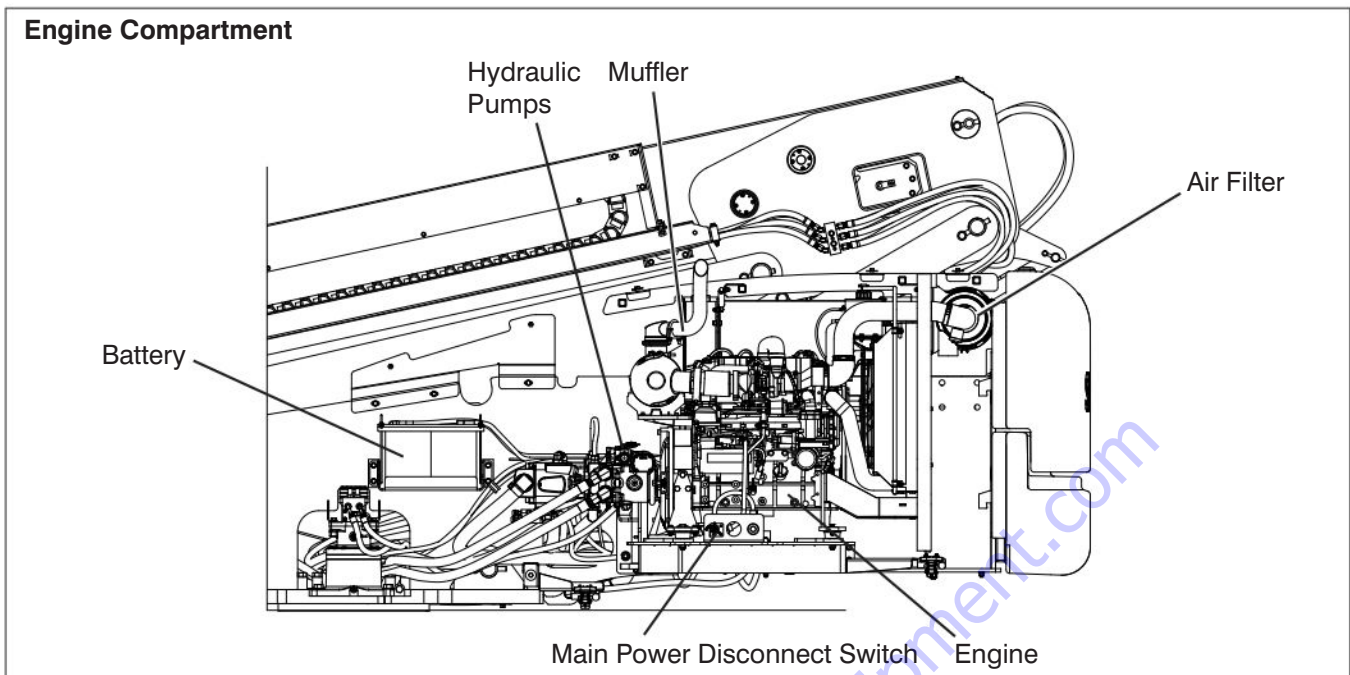
 **WARNING**

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.



- **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 engine pivot tray is secure.
- **Engine Oil Level**
 - Maintaining the engine components is essential to good performance and service life of the aerial platform.
- **Engine Air Filter**
 - Ensure there are no loose or missing parts and there is no visible damage.
- **Fuel Leaks**
 - Ensure that there are no fuel leaks.

 **DANGER**

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

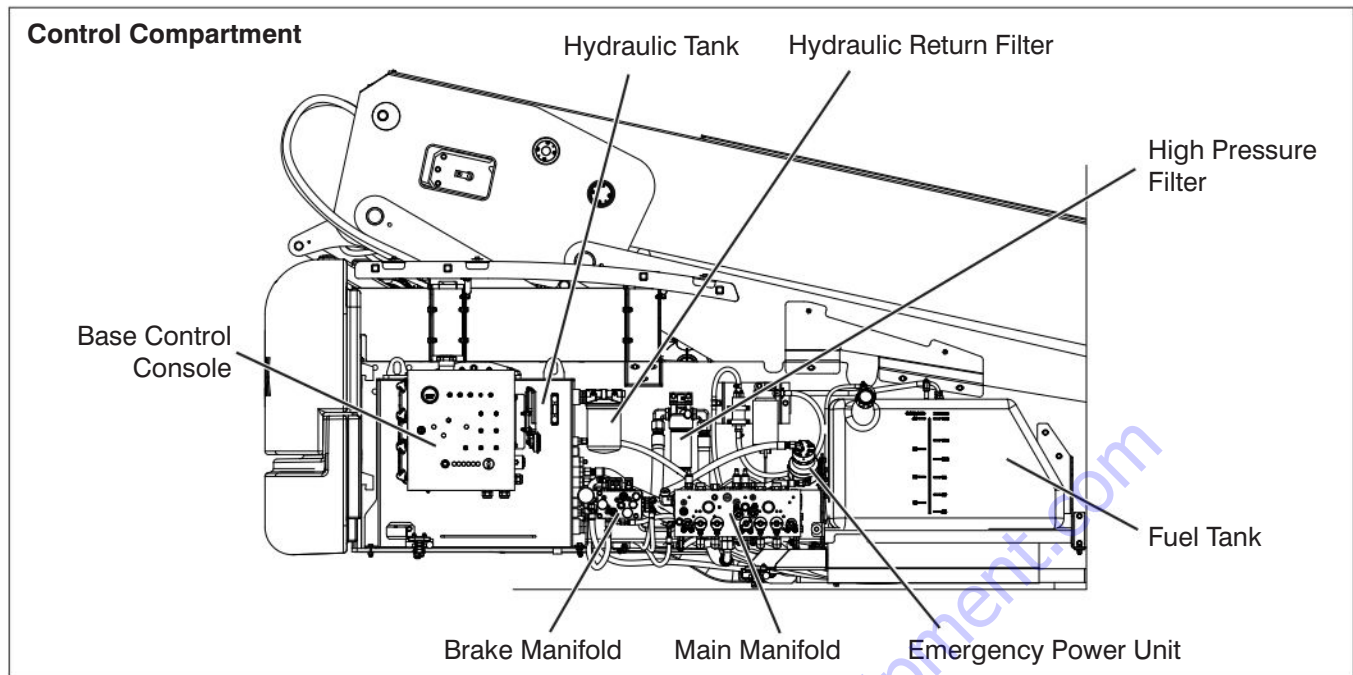
- Ensure fuel tank, hoses and fittings show no visible damage and no evidence of fuel leakage.

 **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.



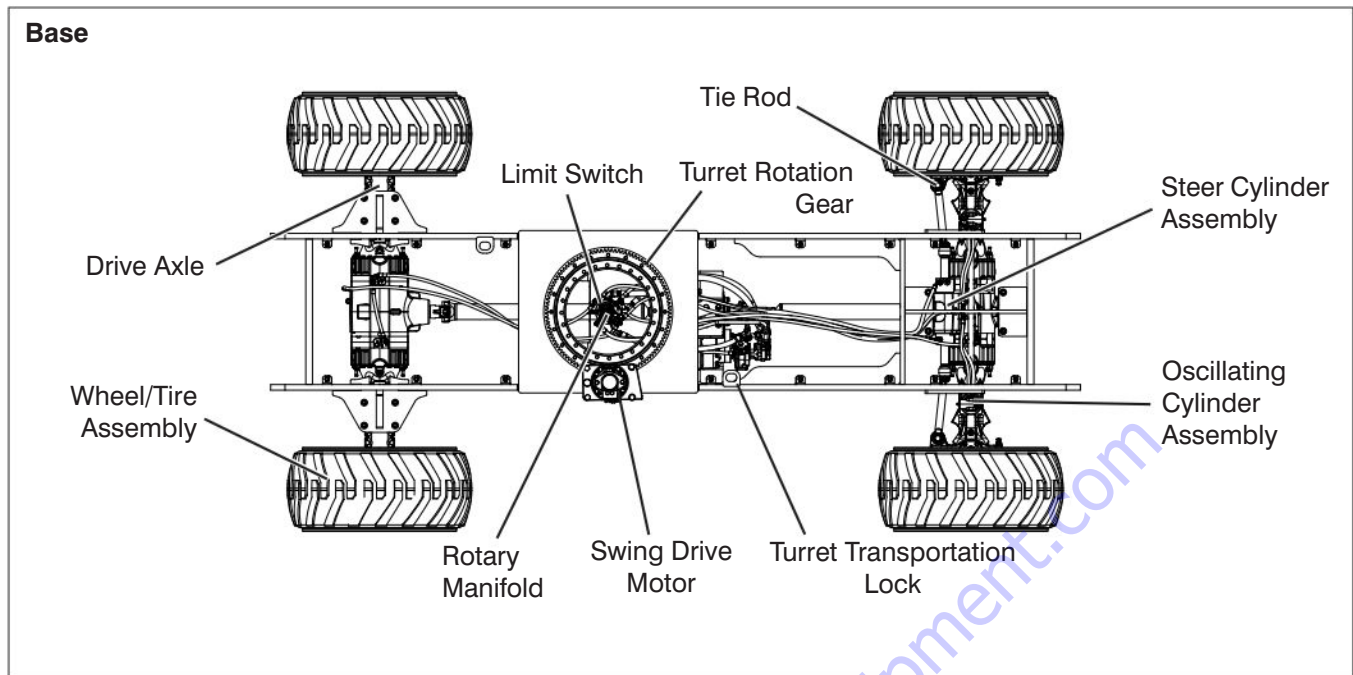
2.3-6 Control Compartment

- 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.
- **High Pressure Filter**
 - Ensure housing is secure and shows no visible damage or leakage.
- **Brake and Main Manifolds**
 - Ensure all fittings and hoses are properly tightened and there is no evidence of hydraulic leakage.
 - Ensure there are no loose wires or missing fasteners.
- **Emergency Power Unit**
 - Ensure there are no loose or missing parts and there is no visible damage.
 - Ensure there are no loose wires or missing fasteners.
 - Ensure all fittings and hoses are properly tightened and there is no evidence of hydraulic leakage.
- **Fuel Tank**
 - Ensure fuel filler cap is secure.
 - Ensure tank shows no visible damage and no evidence of fuel leakage.

IMPORTANT

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

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



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



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

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

2.3-7 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.
- **Tie Rod**
 - Ensure there are no loose or missing parts, tie rod end studs are locked and there is no visible damage.

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

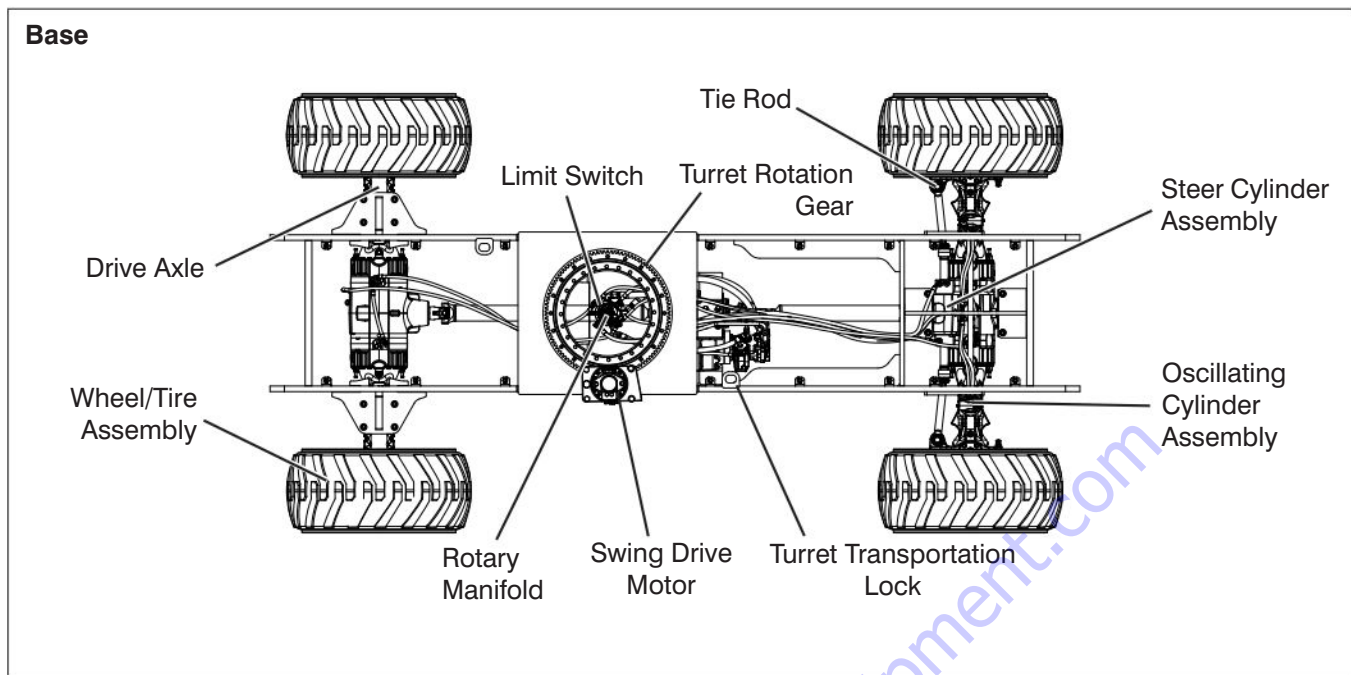
NOTE

Oscillating axle is locked when aerial platform is in low speed. Refer to Figures 3-22 & 3-23 - Axle Oscillation Diagrams.

- **Wheel/Tire Assembly**

The aerial platform is equipped with foam-filled tires. Tire and/or wheel failure could result in an aerial platform 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.



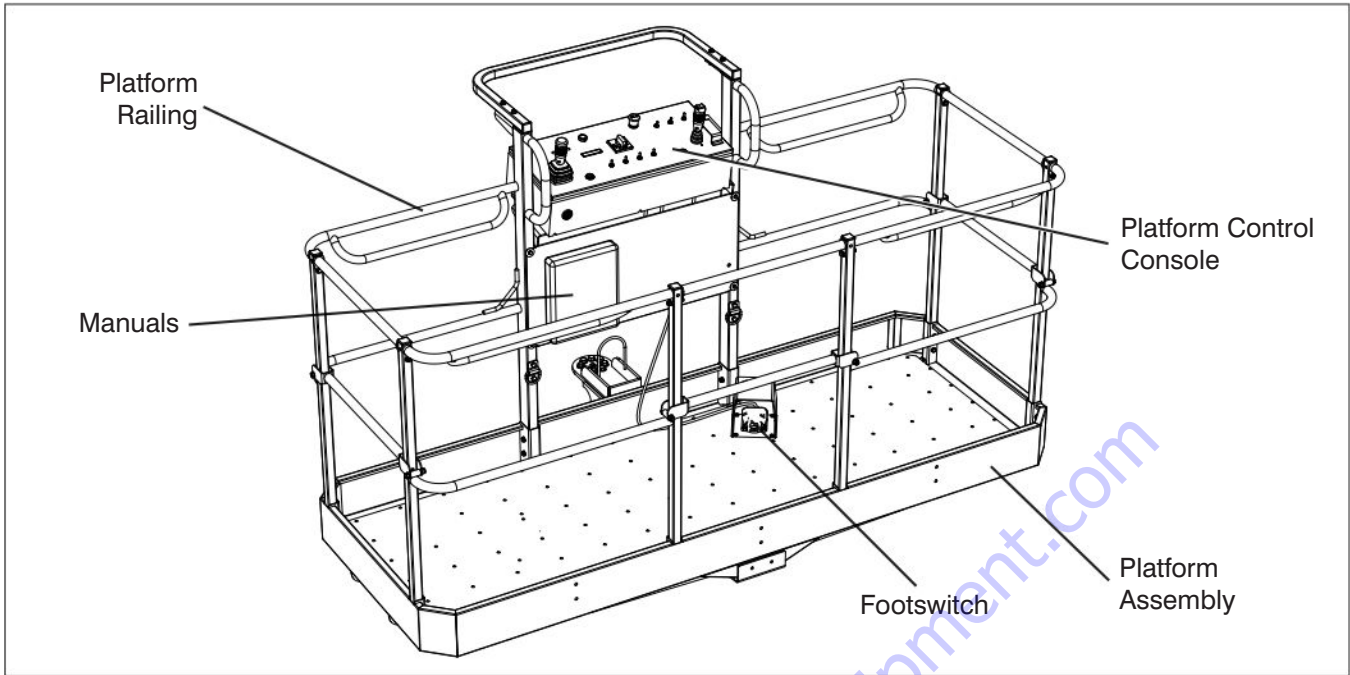
Refer to [Table 4.5](#) for wheel/tire specifications.



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.

- **Swing Drive Motor**
Inspect from underneath the aerial platform.
 - 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.
- **Steer Cylinder Assembly**
Inspect from underneath the aerial platform.
 - 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.
- **Turret Rotation Gear**
Inspect from underneath the aerial platform.
 - Ensure there are no loose or missing parts and there is no visible damage.
- **Rotary Manifold**
Inspect from underneath the aerial platform.
 - Ensure all hoses are properly tightened and there is no evidence of hydraulic leakage.



2.3-8 Manuals

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

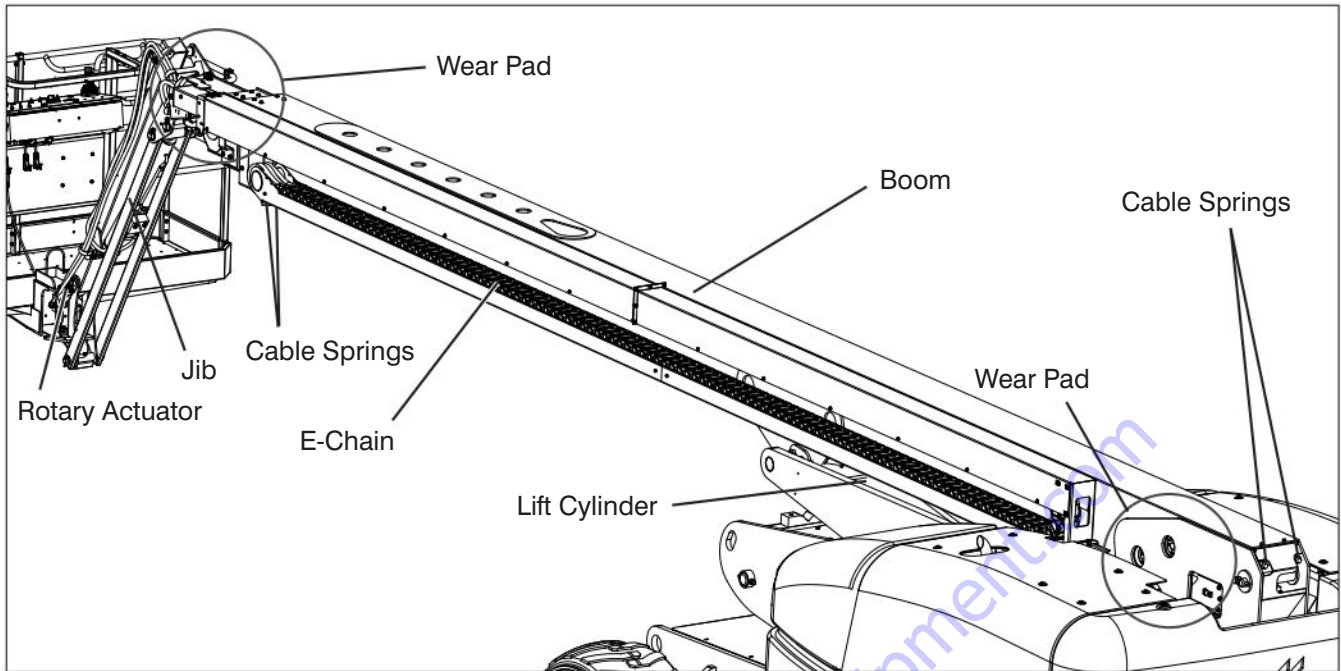
- Check to be sure manual storage box is present and in good condition.
- Ensure manuals are legible and in good condition.
- Always return manuals to the manual storage box after use.

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 gates/drop bars are in good working order.
- 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.
- 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 Jib (If Equipped)

- 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.

2.3-13 Boom

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

- **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.

- **E-Chain**

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

- **Cables**

- 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 cable springs (see [Figure 2-8](#)). If there are gaps, tighten nuts to remove gaps and then add another half turn more.

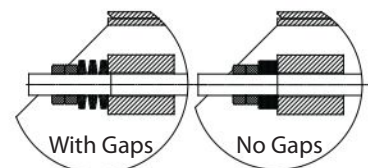
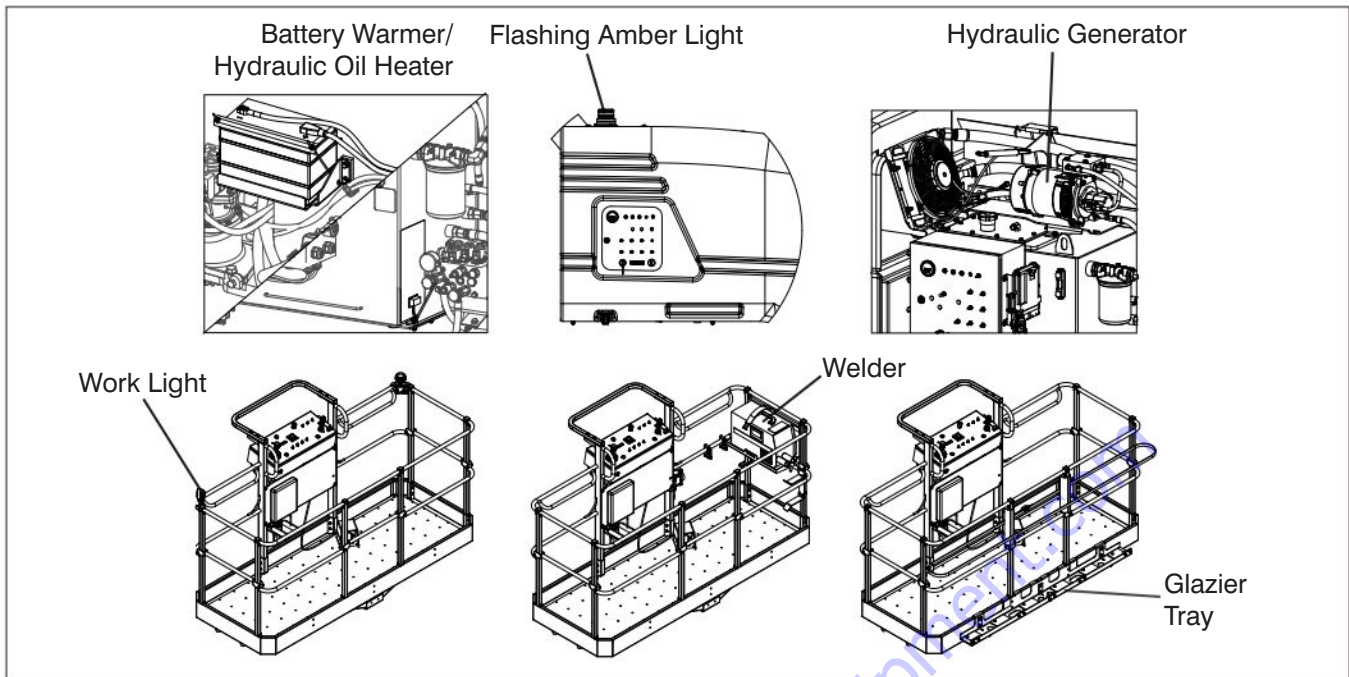
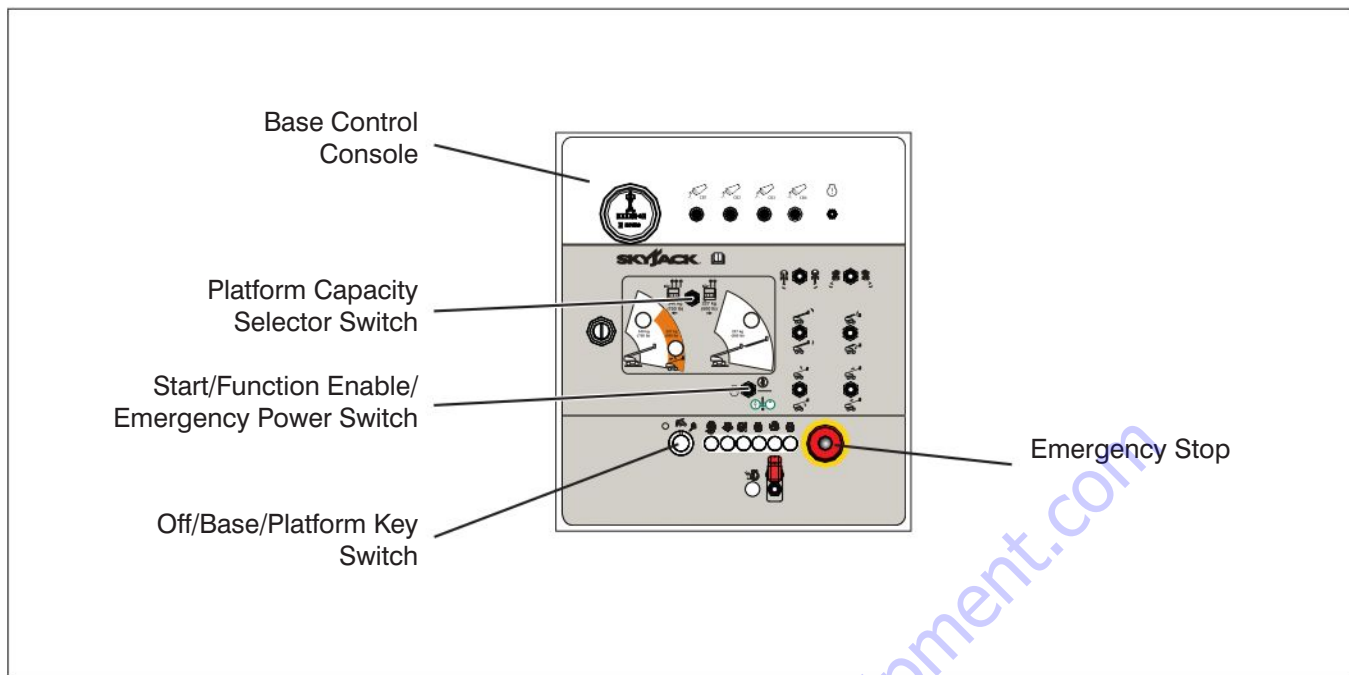


Figure 2-8. Cable Springs



2.3-14 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.
- **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.
- **Glazier Tray (If Equipped)**
 - Ensure tray, strap, foam supports and cover bumpers are properly secured with no signs of visible damage.
- **Arctic Weather Package (If Equipped)**
 - Ensure engine oil heater plug is properly secured with no signs of visible damage or 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 or hydraulic leakage.



2.4 Function Tests

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

IMPORTANT

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

NOTE

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

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

Prior to performing function tests, be sure to read and understand [Section 3.7](#) - Start Operation.

NOTE

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





2.4-1 Test Main Power Disconnect Switch

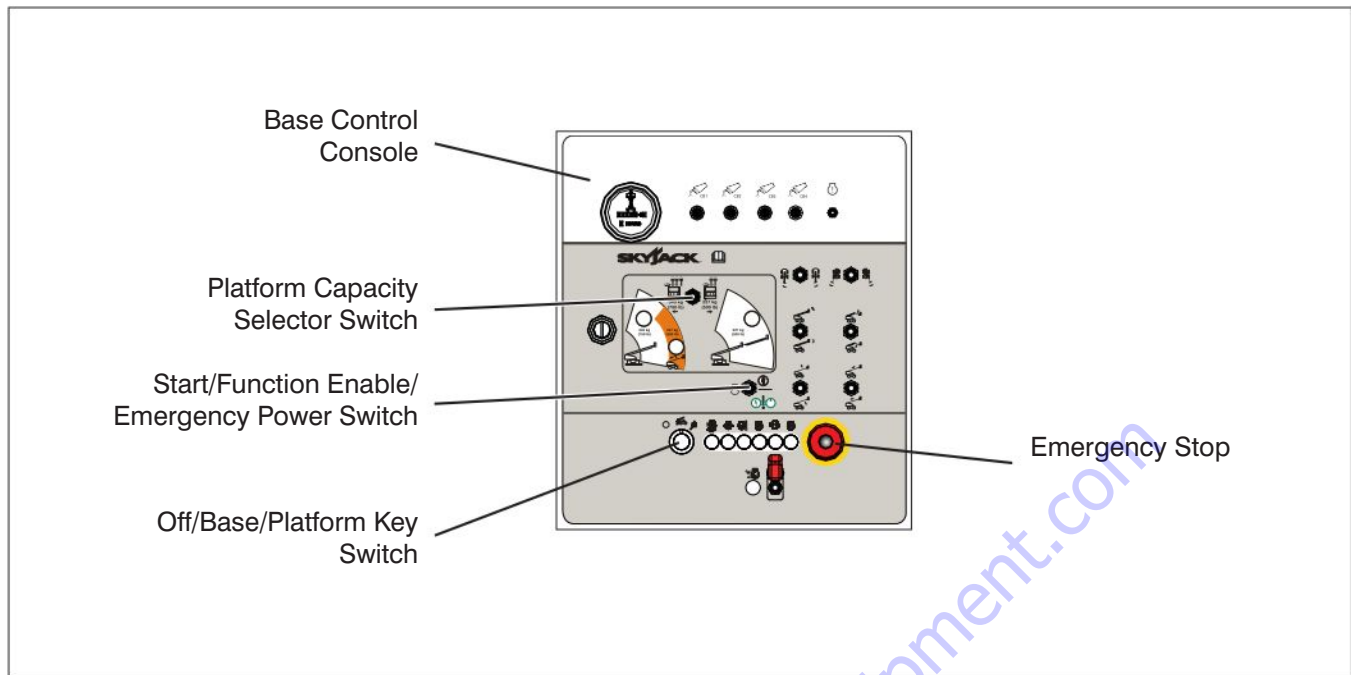
- In engine compartment, turn main power disconnect switch to “O” off position.
Result: Aerial platform functions should not operate.
- In engine compartment, turn main power disconnect switch to “I” on position.

NOTE



Close all cowlings before proceeding to next item.

2.4-2 Base Control Console

- On platform control console, pull out “” emergency stop button.
- On base control console, pull out “” emergency stop button.
- Turn off/base/platform key switch to “” base position.
- Start engine by selecting “” start position from start/function enable/emergency power switch.



• **Test Emergency Stop**



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


• **Test Start/Function Enable/Emergency Power Switch and All Boom Functions**







WARNING

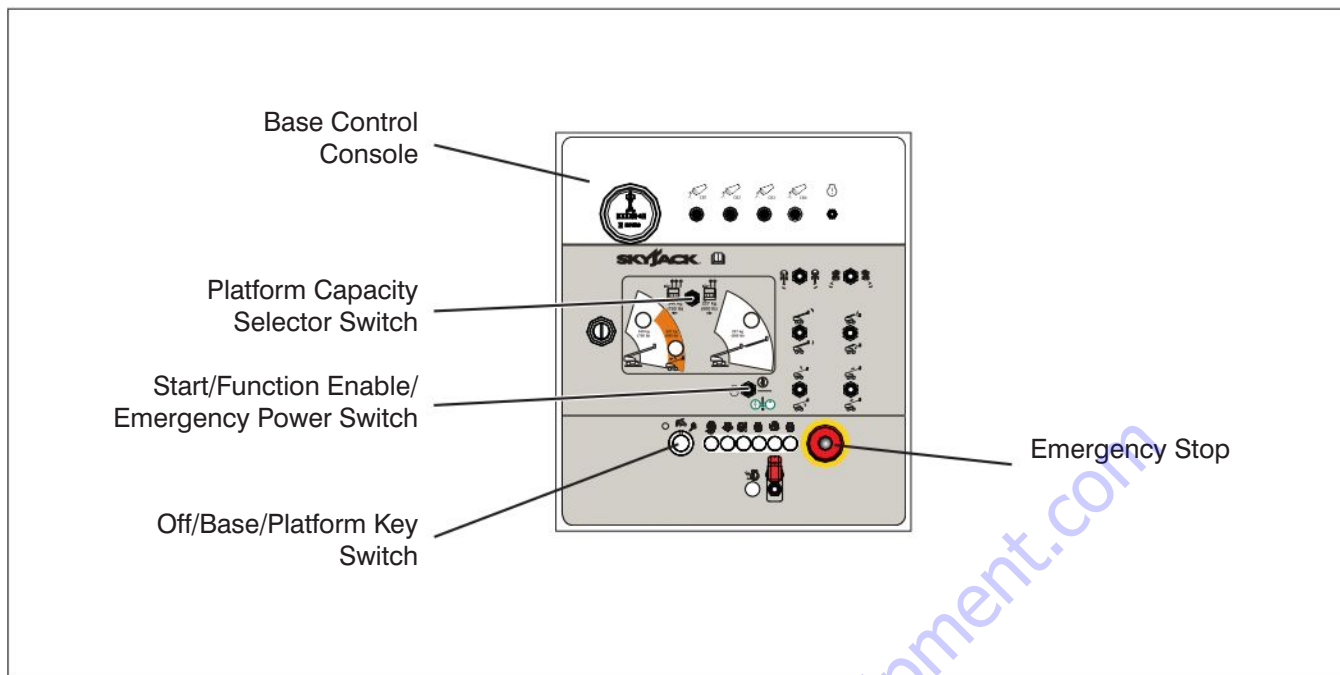
Ensure that there are no personnel or obstructions in test area and there is sufficient room for boom to swing.

1. Ensure “” emergency stop button is pulled out.
2. Start engine.
3. Do not hold “” start/function enable/emergency power switch in function enable position. Attempt to activate each boom and platform switch.
Result: All boom and platform functions should not operate.


4. Hold “” start/function enable/emergency power switch in function enable position and activate each boom and platform function.
Result: Engine speed increases from idle to intermediate. All boom and platform functions should operate as selected.

• **Test Platform Self-leveling**

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



- **Test Emergency Power**

1. On base control console, push in “

CAUTION


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

NOTE

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


**WARNING**

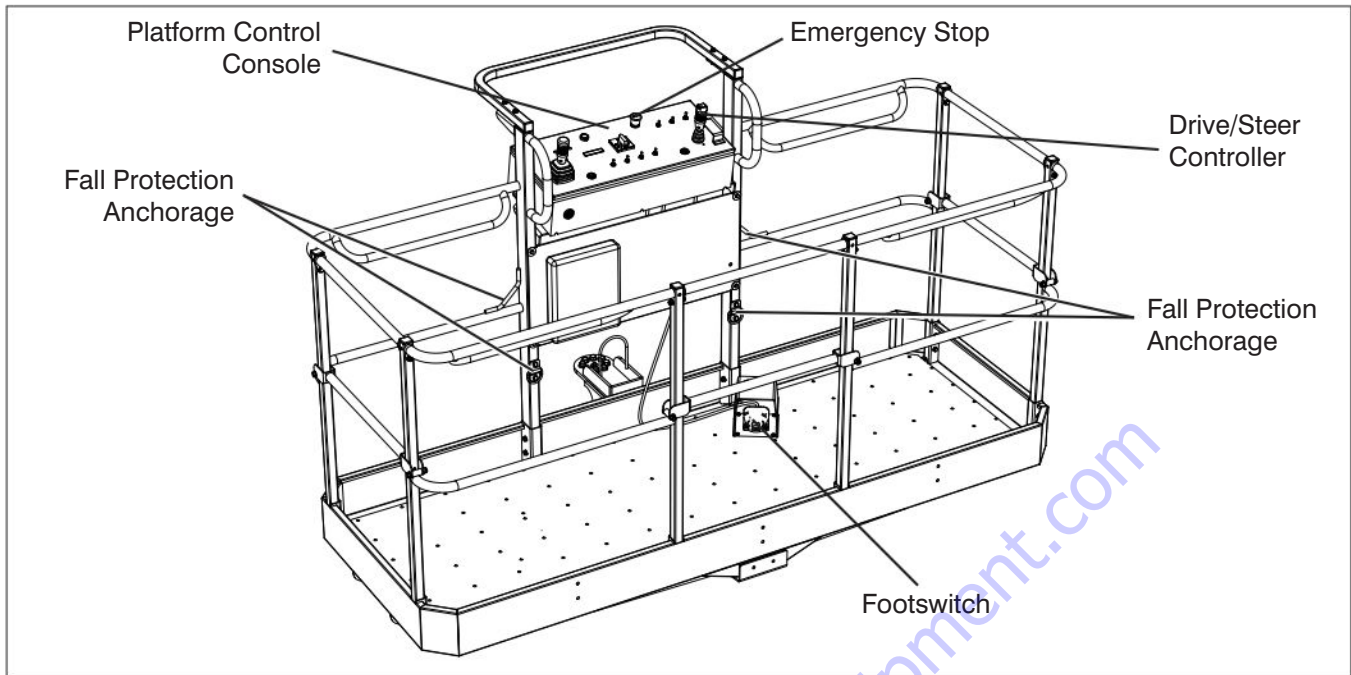
Ensure that there are no personnel or obstructions in test area and there is sufficient room for boom to swing.

3. On base control console, pull out “





Result: All selected functions should operate.

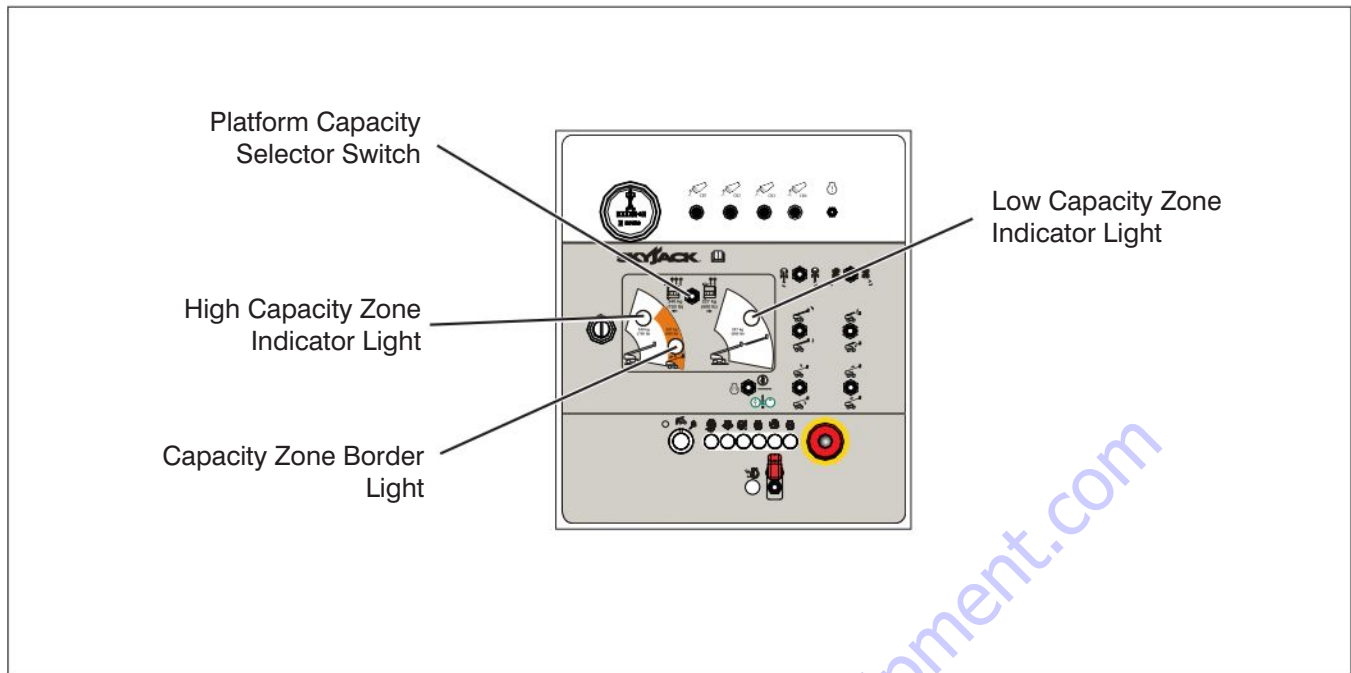
- **Test Off/Base/Platform Switch**

1. Ensure both “SJ 82T & SJ 86T

**WARNING**

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

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



- **Test Platform Capacity Selector Switch**

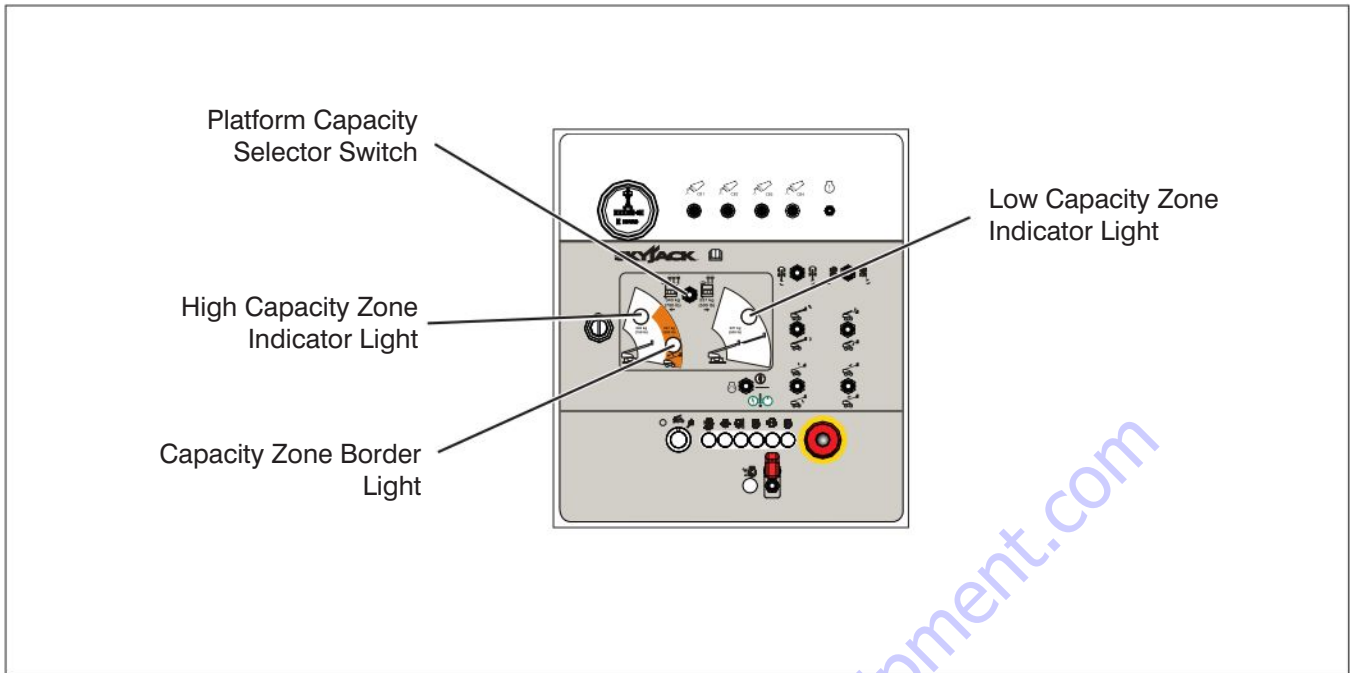
NOTE






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

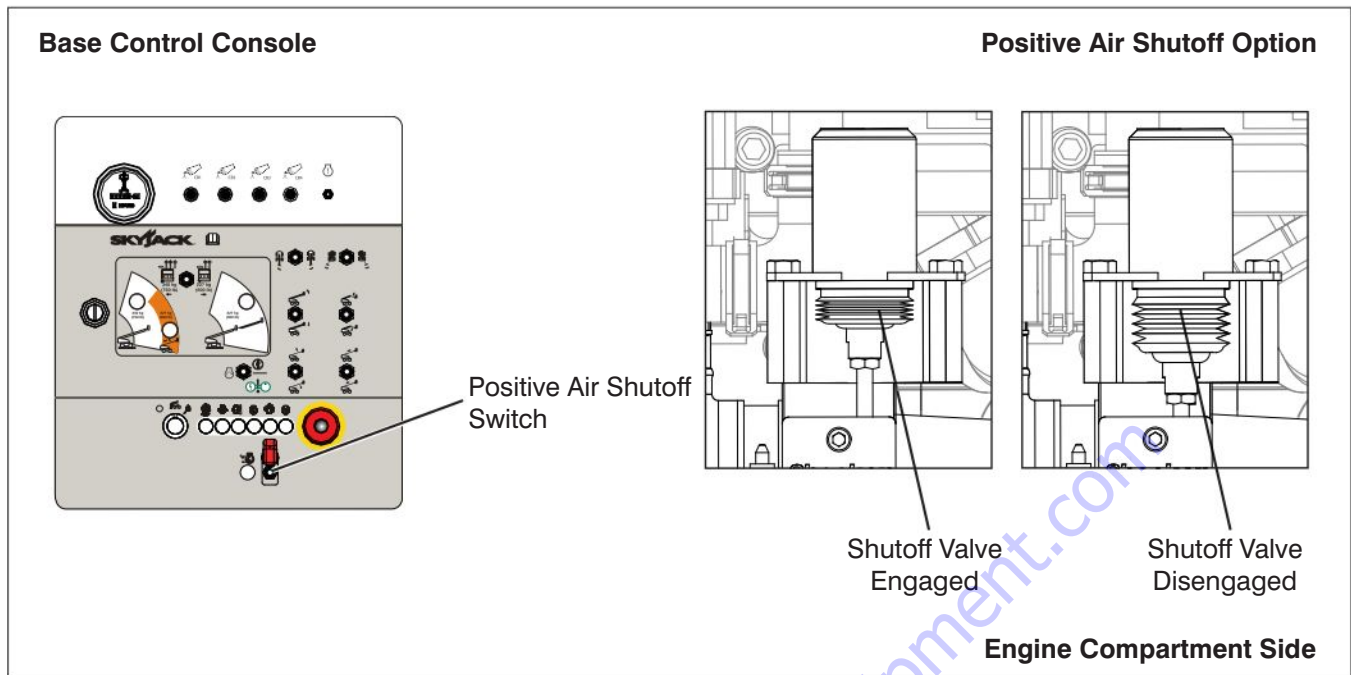
NOTE

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

1. Ensure both "⏹" emergency stop buttons are pulled out and "🔧" start engine.
Result: High capacity zone indicator light should illuminate.
2. Turn off/base/platform key switch to "🏠" base position.
3. Extend "🏠" boom until restricted area is reached.
Result: Boom should stop. High capacity zone indicator light and capacity zone border light should flash.
4. While boom is extended, ensure there are no visible cracks in welds or structure and there are no signs of deformation.
5. Attempt to "🏠" lower boom.
Result: Lower function should not operate.
6. Attempt to "🏠" extend boom.
Result: Extend function should not operate.
7. Activate all other boom functions.
Result: All boom functions should operate, except for "🏠" lower and "🏠" extend.
8. Select "low" platform capacity zone from platform capacity selector switch.
Result: Capacity zone border light and high capacity zone indicator light should turn off. Low capacity zone indicator light should illuminate.
9. Attempt to "🏠" extend and "🏠" lower boom fully.
Result: Extend and lower functions should operate.
10. Push in "⏹" emergency stop button.



11. Pull out “” emergency stop button.
Result: Aerial platform should automatically reset to “high” platform capacity zone. High capacity zone indicator light and capacity zone border light should flash.
12. Select “” emergency power position from start/function enable/emergency power switch.
Result: High capacity zone indicator light and capacity zone border light should flash. All boom functions should operate, except for “” lower and “” extend.
13. Select “low” platform capacity zone from platform capacity selector switch.
Result: Capacity zone border light and high capacity zone indicator light should turn off. Low capacity zone indicator light should illuminate.
14. Select “” emergency power position from start/function enable/emergency power switch and activate each boom function.
Result: Low capacity zone indicator light should remain illuminated. All boom functions should operate.
15. Start engine and retract boom fully.



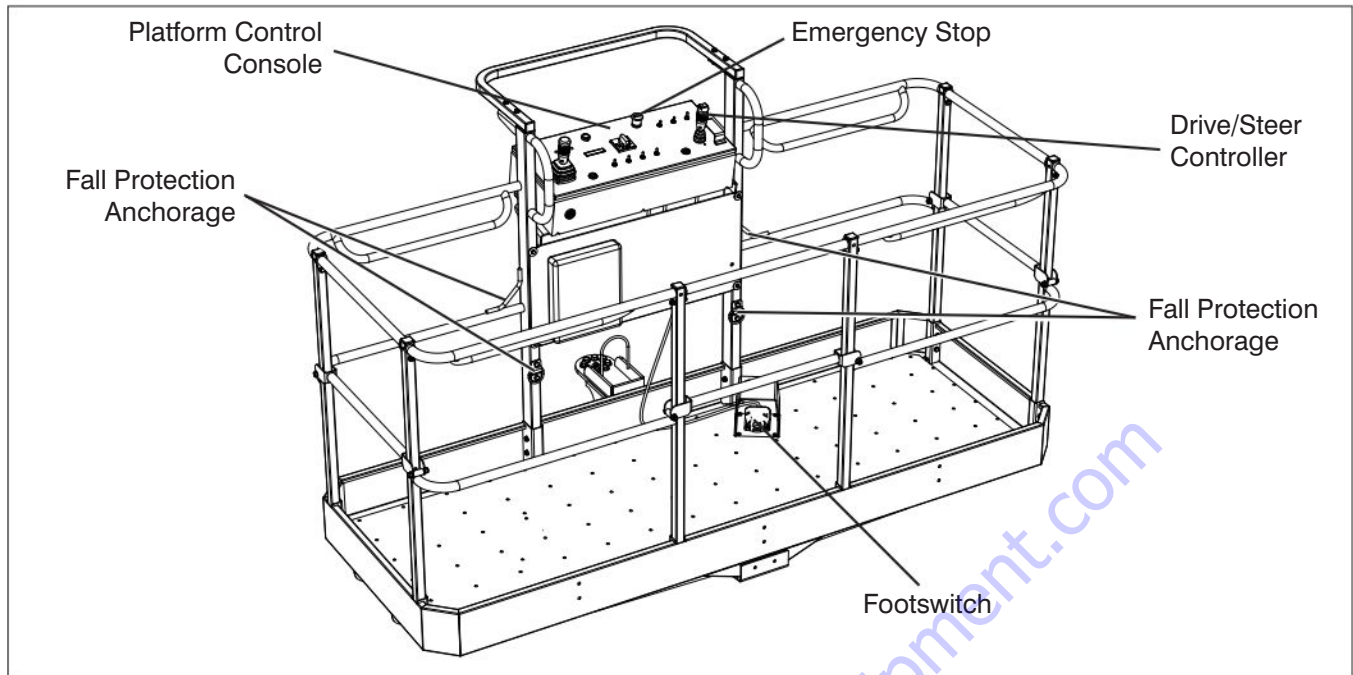
- Test Positive Air Shutoff (If Equipped)



CAUTION

This function test should NOT be performed while the engine is running.


1. Open engine compartment cover.
2. On the base control console, lift switch guard and push rocker switch to “on” position.
3. Push rocker switch to “off” position. LED light should continuously illuminate. Walk back to the engine compartment side of the aerial platform.
Result: The shutoff valve should disengage after 20 seconds (refer to shutoff valve diagrams).
4. Close engine compartment cover. Ensure switch is returned to “off” position and switch guard is down.



2.4-3 Platform Control Console

WARNING

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

1. On base control console, turn off/base/platform key switch to “” platform position.
2. Enter platform and close gate/drop bar.


WARNING



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

WARNING

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

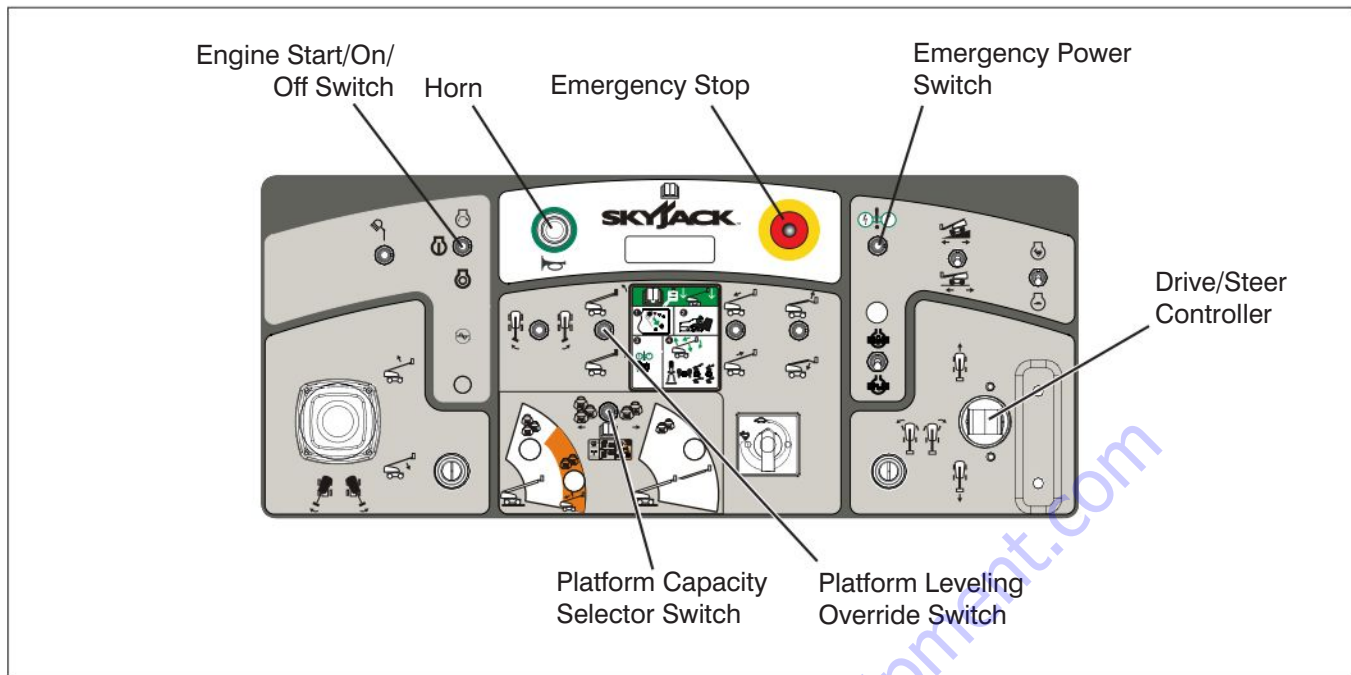
• Test Footswitch

1. Ensure “” emergency stop button is pulled out.




2. Ensure engine start/on/off switch is in “” on position.
3. Do not start engine.
4. Select generator on/off switch to off position (if equipped).
5. Depress and hold footswitch and attempt to start engine by selecting “” start position from engine start/on/off switch.
Result: Engine should not start.
6. Without depressing footswitch, try to start engine.
Result: Engine should start.
7. With engine running and without depressing footswitch, test each boom and platform function.
Result: Aerial platform functions should not operate.

NOTE


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





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

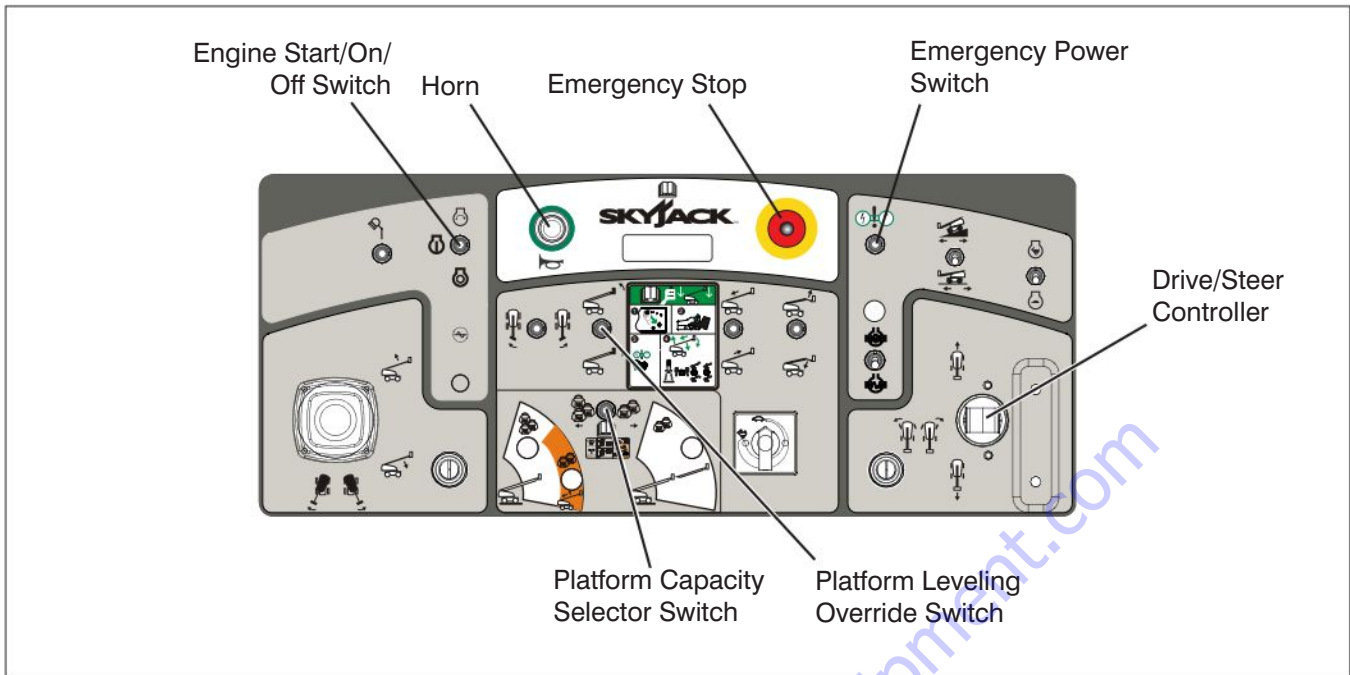
1. Ensure engine is running.
2. Select “” off position from engine start/on/off switch.
Result: Engine should shut down and platform control console is disabled.
3. Select “” on position from engine start/on/off switch.
Result: Platform control console is enabled.
4. Start engine by selecting “” start position from engine start/on/off switch.

- **Test Emergency Stop**





1. Ensure engine is running.
2. Push in “” emergency stop button.
Result: Engine should shut down and aerial platform functions should not operate.

- **Test Manual Platform Leveling**

1. Start engine.
2. Depress and hold footswitch.
3. On platform leveling override switch, select “” up position to tilt platform up or “” down position to tilt platform down.
Result: Platform should tilt up or down.





• **Test Steering**

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



• **Test Driving Function**

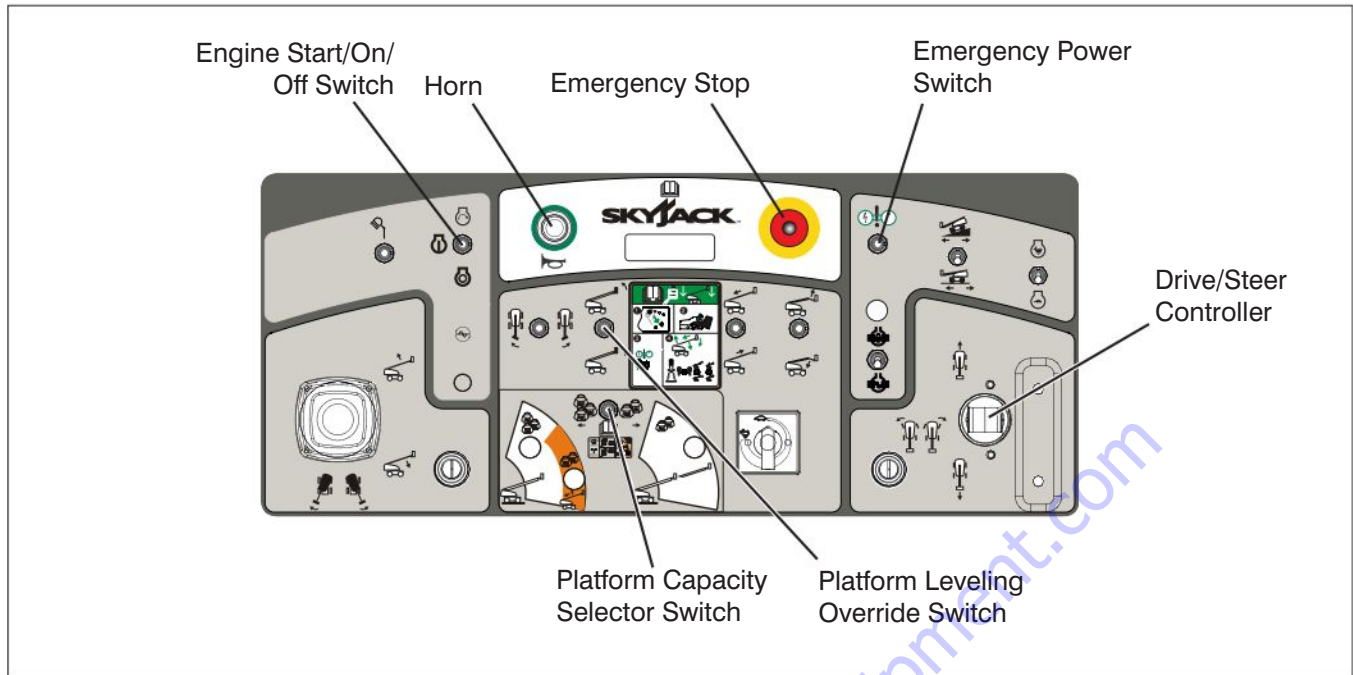
1. Ensure path of intended motion is clear.
2. Ensure boom is in stowed position and fly boom fully retracted.
3. Depress and hold footswitch.

4. Slowly move drive/steer controller in

- “” forward or “” reverse direction until aerial platform begins to move, and then return handle to center position.
Result: Aerial platform should move in forward or reverse direction, and then come to a stop.

• **Test Driving Speed**

1. Depress and hold footswitch.
2. Raise “” main boom approximately 14 ft. (4 m) 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 12 in. (30 cm) 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.

NOTE

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

1. On platform control console, push in “” emergency stop button to turn engine off.
2. Pull out “” emergency stop button.
3. Select “” on position from engine start/on/off switch.
4. Depress and hold footswitch.
5. Select “” from emergency power unit switch and activate each function control handle or switch.
Result: All boom and steer functions should operate. Drive functions should not operate.

• Test Horn

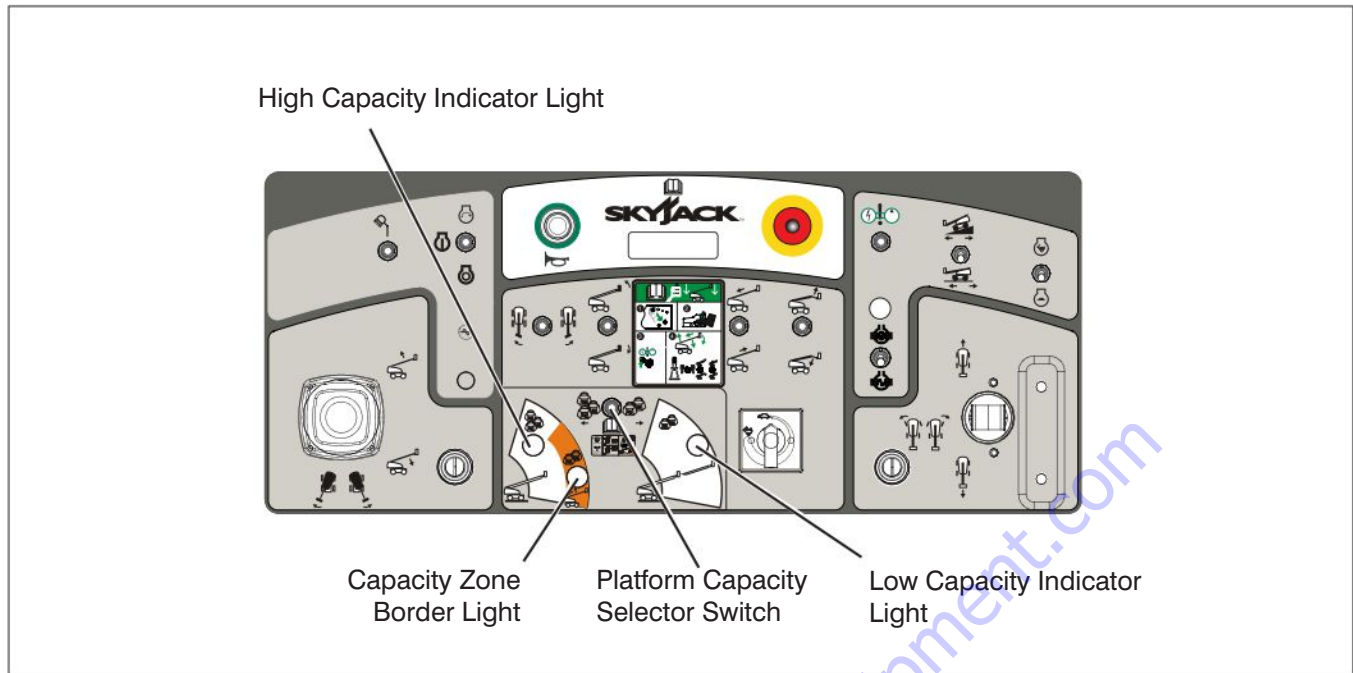
1. Push “” horn pushbutton.
Result: Horn should sound.

• Test Brakes



WARNING
Brakes will engage instantly when you release footswitch, causing aerial platform to stop immediately.

1. Start engine.
2. Move aerial platform 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 aerial platform first “” forward then “” reverse at full speed.
4. Remove your foot from footswitch.
Result: Aerial platform should come to an instant and abrupt stop. If aerial platform does not stop immediately, or if aerial platform pulls to one side while stopping, do not operate aerial platform until brake adjustments have been checked.



- **Test Platform Capacity Selector Switch**

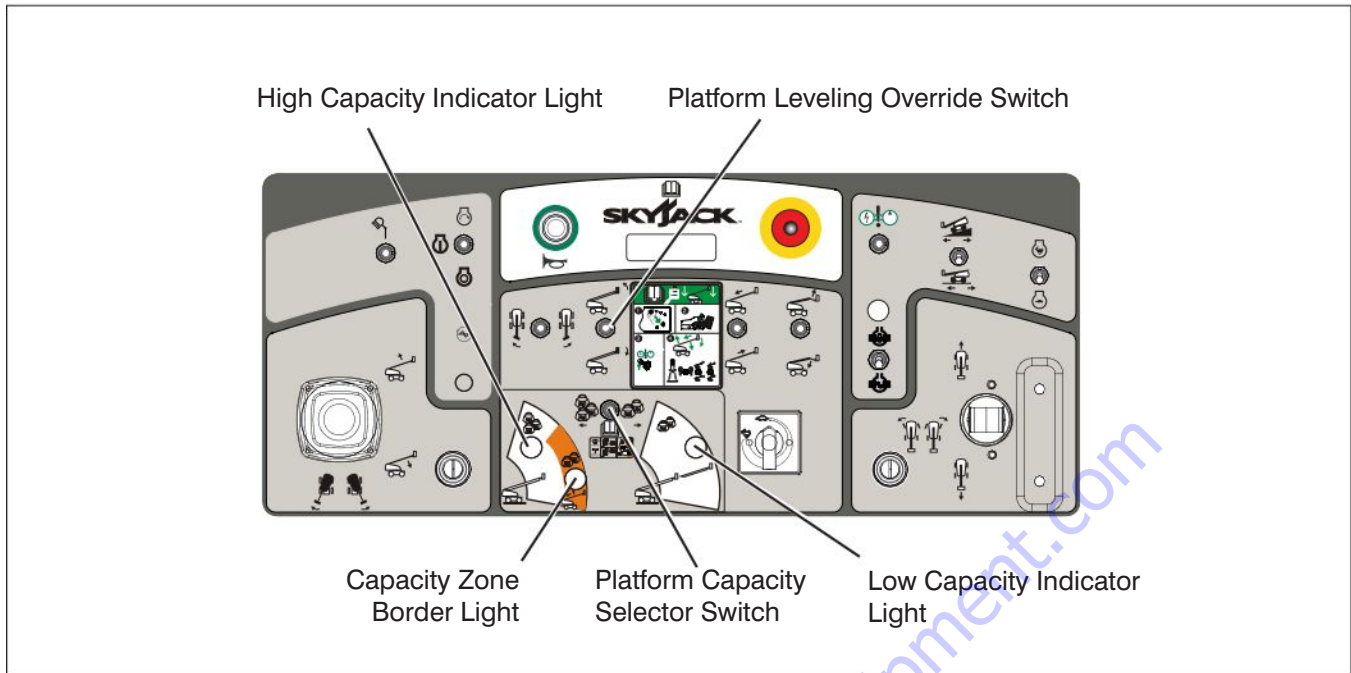
NOTE






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

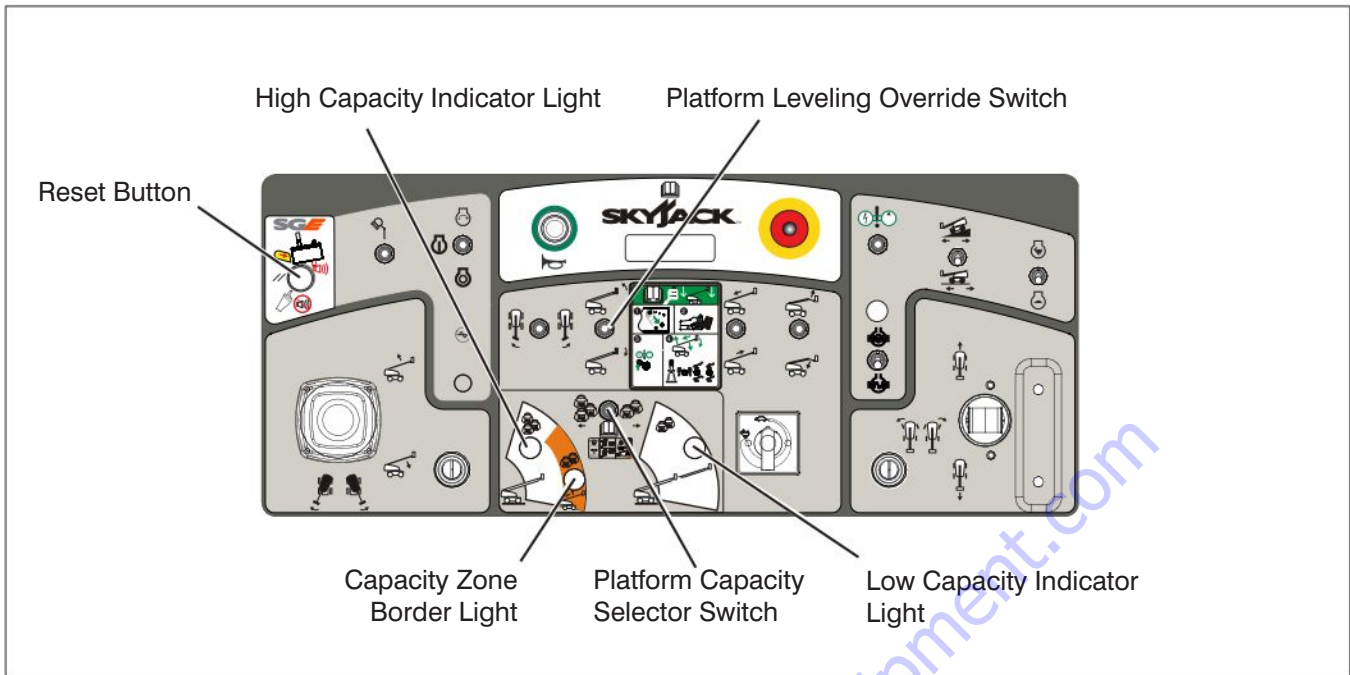
NOTE

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

1. Ensure both "⏹" emergency stop buttons are pulled out and "🔧" start engine.
Result: High capacity zone indicator light should illuminate.
2. Depress and hold footswitch and "🚀" extend boom until restricted area is reached.
Result: Boom should stop. High capacity zone indicator light and capacity zone border light should flash.
3. Depress and hold footswitch and attempt to "📉" lower.
Result: Lower function should not operate.
4. Depress and hold footswitch and attempt to "🚀" extend boom.
Result: Extend function should not operate.
5. Depress and hold footswitch and activate all other boom and steer functions.
Result: All boom and steer functions should operate, except for "📉" lower and "🚀" extend.
6. Pull and select "low" platform capacity from platform capacity selector switch.
Result: Capacity zone border light and high capacity zone indicator light should turn off. Low capacity zone indicator light should illuminate.
7. Depress and hold footswitch and attempt to "🚀" extend and "📉" lower boom fully.
Result: Extend and lower functions should operate.
8. Retract the boom completely.
9. Push in "⏹" emergency stop button.



10. Pull out “” emergency stop button.
Result: Aerial platform should automatically reset to “high” platform capacity zone. High capacity zone indicator light and capacity zone border light should flash.
11. Select “” from emergency power unit switch.
Result: : High capacity zone indicator light and capacity zone border light should flash. All boom and steer functions should operate, except for “” lower and “” extend.
12. Pull and select “low” platform capacity from platform capacity selector switch.
Result: Capacity zone border light and high capacity zone indicator light should turn off. Low capacity zone indicator light should illuminate.
13. Depress and hold footswitch.
14. Select “” from emergency power unit switch and activate each boom function.
Result: Low capacity zone indicator light should remain illuminated. All boom and steer functions should operate. Drive functions should not operate.



• **Test Secondary Guarding Electrical (SGE) (If Equipped)**

1. Press the sensor bar for less than 1 second and then release.
Result: The audible/visual alarm should activate while the bar is being pressed and turn off after being released. The reset button should illuminate as soon as the sensor bar is pressed, and turn off when the bar is released.
2. Press the sensor bar for more than 1 second and then release.
Result: The audible/visual alarm should activate immediately and stay on after the bar is released. The reset button should illuminate. The engine fault and glow plug indicator lights should illuminate.
3. Press the reset button.
Result: The audible/visual alarm and reset button light should go off.
4. Start the engine.
5. Press the sensor bar for less than 1 second and then release.
Result: The audible/visual alarm should activate while the bar is being pressed and turn off after being released. The reset button should illuminate as soon as the sensor bar is pressed, and turn off when the bar is released.

6. Press the sensor bar for more than 1 second and then release.

Result: The audible/visual alarm should activate immediately and stay on after the bar is released. The engine should shut down after 1 second. The reset button should illuminate. The engine fault and glow plug indicator lights should illuminate.

7. Press the reset button.
Result: The audible/visual alarm and reset button light should go off.

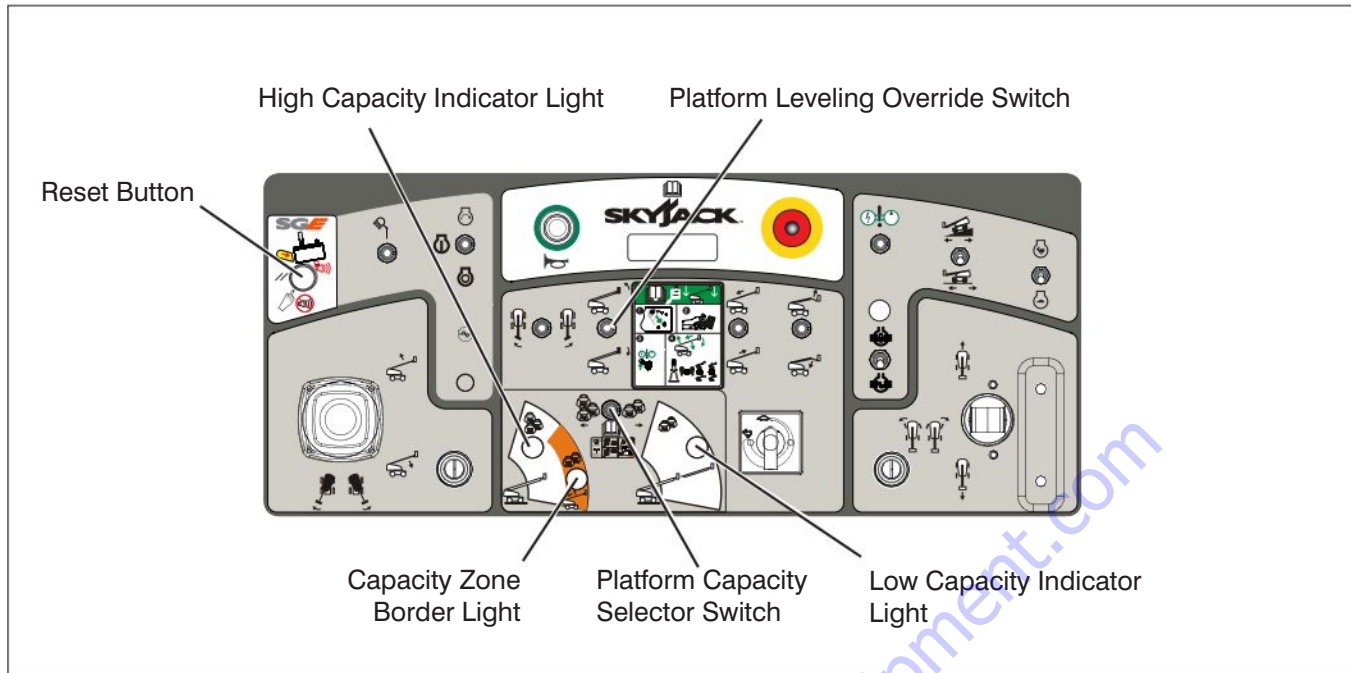
8. Start the engine.

9. Activate any drive function in high torque



10. Press the sensor bar for less than 1 second and then release.

Result: The function will stop while the bar is being pressed and motion will resume when the bar is released. The audible/visual alarm should activate while the bar is being pressed and turn off after being released. The reset button should illuminate as soon as the sensor bar is pressed, and turn off when the bar is released.



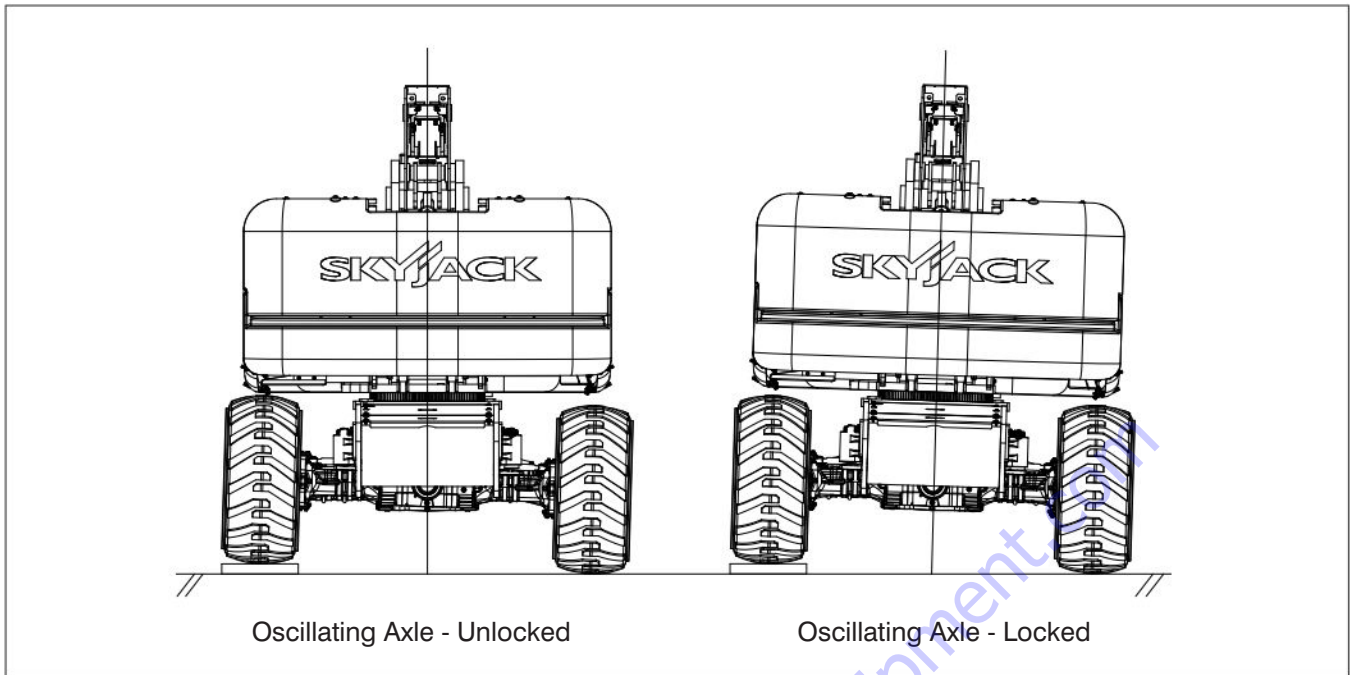
11. Press the sensor bar for more than 1 second and then release.

Result: The function will stop and the audible/visual alarm should activate immediately and stay on after the bar is released. The engine should shut down after 1 second. The reset button should illuminate. The engine fault and glow plug indicator lights should illuminate.

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

Result: The function will stop and the audible/visual alarm should activate immediately and stay on after the bar is released. The engine should shut down after 1 second. The reset button should illuminate. The engine fault and glow plug indicator lights should illuminate.

16. While the audible/visual alarm is sounding, verify that the LED strobe light is also active.



- Test Oscillating Axles



WARNING

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

1. Extend fly boom 12 in. (30 cm) while on a firm, level surface.
Result: The steer axles should be locked.
2. Drive one of the steer tires up onto a 6 in. (15 cm) block or curb.
Result: An appropriate tilt of the aerial platform chassis should occur.
3. Retract fly boom while in tilt position.
Result: The steer axles should unlock and the aerial platform chassis should level itself to ground.

- Test Cables



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

- Test Differential Lock Switch



WARNING

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

1. On platform control console, push differential lock switch forward  to the locked position and then release.
Result: Differential light should turn on. Differential lock should be engaged.
2. Pull differential lock switch backward  to the unlocked position and then release.
Result: Differential light should turn off.

Differential lock will disengage when drive torque is released. Refer to [Section 3](#) for operation.

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 aerial platform to become unstable. Death or serious injury could result.



WARNING

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



WARNING

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



WARNING

Do not winch or tow aerial platform on grade steeper than 50%.



WARNING

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

1. Before winching or towing aerial platform, 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 aerial platform to desired location.

4. Position aerial platform on a firm and level surface.
5. Chock or block wheels to prevent aerial platform from rolling.
6. Locate the bypass valve on the inboard side of the drive pump. Re-engage the drive pump by loosening the valve stem (item 1 - marked with yellow paint) 90 degrees counterclockwise.

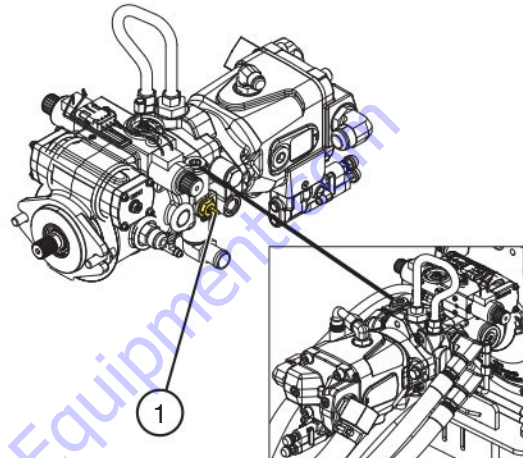


Figure 2-9. Drive Bypass Valve

7. 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.



WARNING

Do not manually disengage brakes if aerial platform is on a slope.

1. Ensure aerial platform is on level ground. Chock or block wheels to keep aerial platform from rolling.
2. Turn main power disconnect switch to “O” off position.



CAUTION

Do not use hydraulic power with brake disengaged.

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

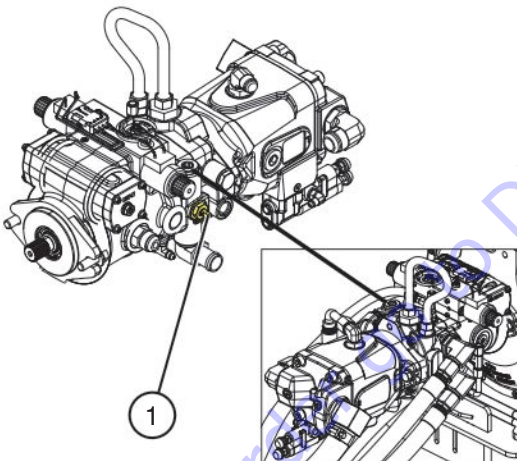


Figure 2-10. Drive Bypass Valve



CAUTION

Do not release brakes before disengaging drive motor!

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

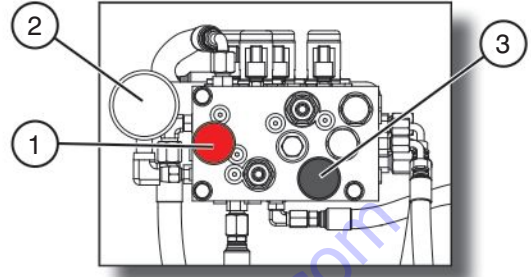


Figure 2-11. Brake Manifold

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






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.

2.6-1 Base Control Console

1. Ensure engine is off.
2. Pull out “” emergency stop button.
3. Turn key switch to “” base position.
4. Select “” emergency power position from start/function enable/emergency power switch and activate desired boom function.

2.6-2 Platform Control Console

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

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3.0 Operation

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

3.1 General

In order for this aerial platform to be in good working condition, it is important that the operator meets the necessary qualifications and follow the operator's daily inspection checklist referred to in this manual.

3.1-1 Operator Qualifications

- Only trained and authorized personnel shall be permitted to operate an aerial platform.
- Safe use of this aerial platform 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 aerial platform.
- 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 aerial platform in the presence of a qualified/competent person.

3.1-2 Operator's Responsibility for Maintenance



WARNING

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

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

- The operator must be sure that the aerial platform 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 aerial platform.

3.1-3 Maintenance and Inspection Schedule

- Refer to Service manual for frequent (every 3 months or 150 hours) and annual inspection details.
- The actual operating environment of the aerial platform may affect the maintenance schedule.



WARNING

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

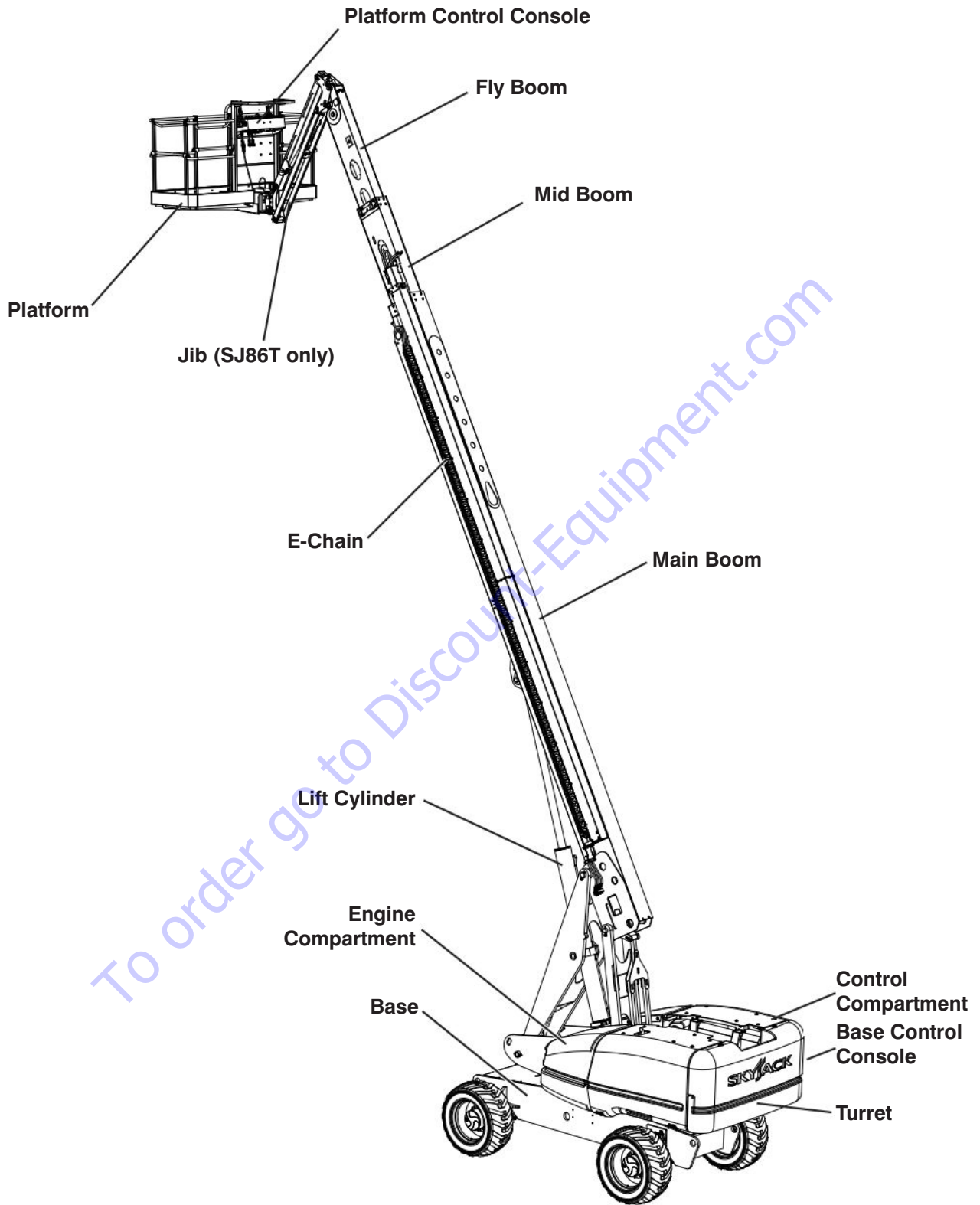
NOTE

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

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 aerial platform. 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.

3.2 Major Components



SKYJACK 8XT Telescopic Boom

3.3 Major Assemblies

The aerial platform 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.

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, mid boom and main boom assembly. 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. The SJ86T model is equipped with a 60 in. (150 cm) 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 43 in. (109 cm) high tubular steel railing system with mid rails and 6 in. (15 cm) toe boards. The platform can be entered through a swing side gate or an optional swing gate at the center of the railing system. The platform can be rotated in either direction. An AC GFI outlet is also located on the platform.

3.4 Serial Number Nameplate

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

- Model number
- Serial number
- Maximum capacities
- Maximum number of persons permissible on the platform
- Maximum manual force
- Aerial platform weight
- Maximum drivable height
- Maximum platform height
- System pressure
- Lift pressure
- Maximum wheel load
- Voltage

3.5 Component Identification (Optional Equipment/Attachments)

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

3.5-1 AC Outlet on Platform (If Equipped)

This outlet is a source of AC power on the platform. The outlet is located on the right side of platform control console and the plug is located beside hydraulic tank in control compartment.



Figure 3-1. AC Outlet and Electrical Plug

3.5-2 Cold Weather Start (If Equipped)

The battery warmer/hydraulic oil heater cord is located in the engine compartment near the engine.

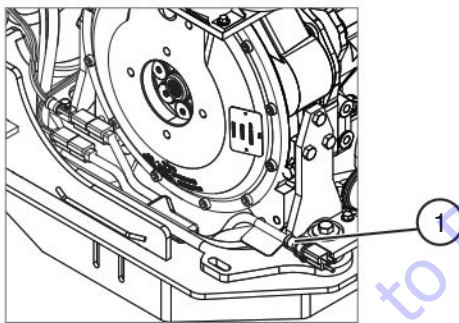


Figure 3-2. Battery Warmer/Hydraulic Oil Heater Cord

1. **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).

3.5-3 Flashing Amber Light (If Equipped)

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

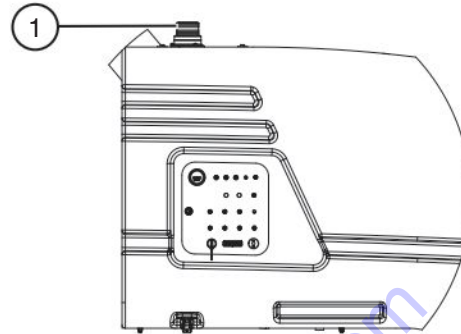


Figure 3-3. Flashing Amber Light

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

3.5-4 Work Light (If Equipped)

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

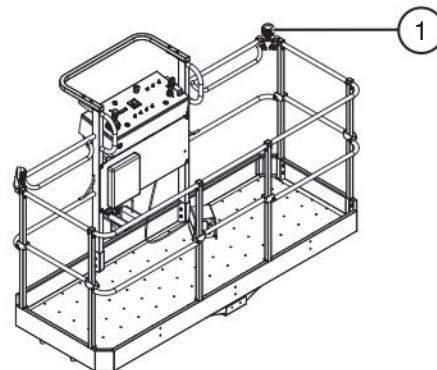


Figure 3-4. Work Light

NOTE

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

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

WARNING

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

3.5-5 Glazier Tray (If Equipped)

The tray is installed on the front side of the platform.

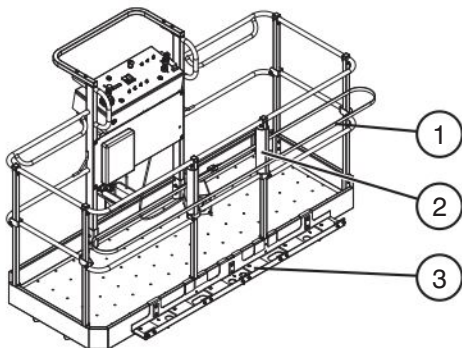


Figure 3-5. Glazier Tray

1. **Strap** - This strap is used to secure panel in place.
2. **Foam Support** - This foam support with cover bumper is used as a cushion to protect the panel.
3. **Glazier Tray** - This tray is used to carry the panel.

NOTE

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

3.5-6 Welder (If Equipped)

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

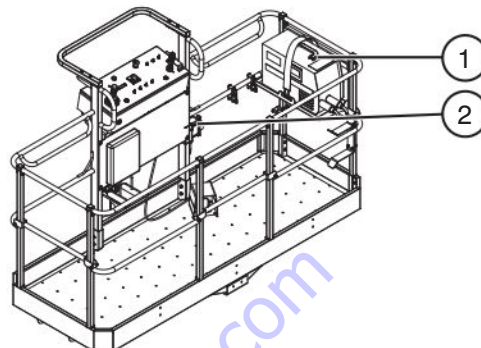


Figure 3-6. Welder

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.

NOTE

Refer to option's manual and labels for actual weight. This weight must be included when determining the total load on the platform, including personnel and other materials.



WARNING

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



CAUTION

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

3.5-7 Arctic Weather Package (If Equipped)

The heater plug is located in the engine compartment near the engine.

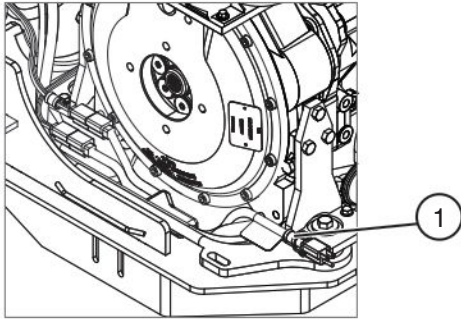


Figure 3-7. Heater Plug

1. **Battery/Hydraulic Oil/Engine Oil Heater Plug** - This cord is plugged into the AC outlet at least 4 hours before starting engine when temperature gets below -18°C (0°F).

3.5-8 Secondary Guarding Electrical (SGE) (If Equipped)

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



WARNING

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

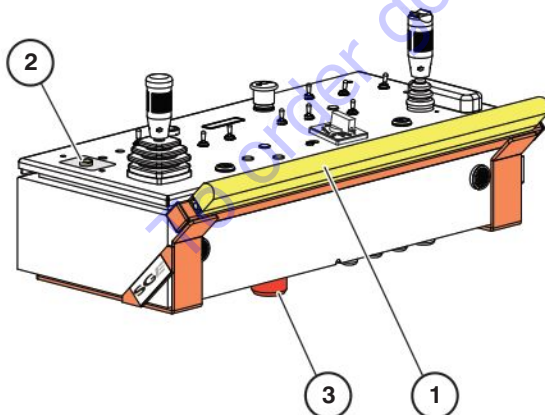


Figure 3-8. Secondary Guarding Electrical (SGE)

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

SGE Operation

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

3.6 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 aerial platform 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 aerial platform is put into service.

IMPORTANT

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

The operator should make a copy of the Operator's Daily Inspection Checklist (see [Table 4.7](#)) and fill out the visual and daily maintenance inspections and the function tests sections while performing the items outlined in [Section 2.3](#) and [Section 2.4](#).

IMPORTANT

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

Repairs to the aerial platform may only be made by qualified/competent repair personnel. After repairs are completed, the operator must perform visual and daily maintenance inspections & function tests again.

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

3.7 Start Operation

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



WARNING

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

Before operating this aerial platform, perform the following steps:

1. Visual and daily maintenance inspections (see [Section 2.3](#))
2. Function tests (see [Section 2.4](#))
3. Jobsite inspection
It is the responsibility of the operator to perform a jobsite inspection and avoid the following hazardous situations:
 - holes or drop-offs
 - ditches or soft fills
 - floor obstructions, bumps or debris
 - overhead obstructions
 - electrical cords, hoses and high voltage conductors
 - hazardous locations (see NFPA 505)
 - inadequate surface support to withstand all load forces imposed by the aerial platform
 - wind and weather conditions
 - the presence of unauthorized personnel
 - other possible unsafe conditions



WARNING

An operator should not use any aerial platform 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.

3.7-1 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/drop bar.
2. On platform control console, pull out “” emergency stop button.
3. In engine compartment, turn main power disconnect switch to “I” on position.
4. On base control console, turn off/base/platform key switch to “” base position.
5. Pull out “” emergency stop button.
6. Select “” start position from start/function enable/emergency power switch until engine starts.






WARNING

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

For aerial platform 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.

3.7-2 To Rotate Platform Using Base Control Console




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

3.7-3 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 function enable “” by selecting and holding start/function enable/emergency power switch to function enable position.
2. Push turret rotation switch to either “” clockwise or “” counterclockwise position. Release switch to stop.

NOTE

Turret can be rotated continuously 360 degrees.




3.7-4 To Move Jib Up and Down Using Base Control Console (If Equipped)

1. Activate function enable “” by selecting and holding start/function enable/emergency power switch to function enable position.
2. Push jib up/down switch to either “” up or “” down position. Release switch to stop.

3.7-5 To Raise or Lower Main Boom Using Base Control Console

NOTE




Select desired platform capacity using platform capacity selector switch. High platform capacity is automatically selected.

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




3.7-6 To Extend or Retract Fly Boom Using Base Control Console

NOTE

Select desired platform capacity using platform capacity selector switch. High platform capacity is automatically selected.

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



3.7-7 To Level Platform Using Base Control Console

1. Activate function enable “” by selecting and holding start/function enable/emergency power switch to function enable position.
2. Push platform leveling override switch to either “” up or “” down position. Release switch to stop.

3.7-8 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.

3.7-9 To Activate Platform Control Console

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




WARNING


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



WARNING

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

4. Enter platform and close gate/drop bar.
5. Attach body harness lanyards of each occupant to fall protection anchorage points. Rated for one (1) person per anchorage.
6. On platform control console, pull out "  " emergency stop button.

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

NOTE

Select desired platform capacity using platform capacity selector switch. High platform capacity is automatically selected.





WARNING

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

NOTE

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

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



WARNING



- **DO NOT drive or steer the aerial platform 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.**

3.7-10 To Drive Forward or Reverse Using Platform Control Console



CAUTION

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

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



CAUTION

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





CAUTION

When driving on a slope:

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




3.7-11 To Steer Using Platform Control Console

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

NOTE

Driving and steering may be active at the same time.




3.7-12 To Move Jib Up and Down Using Platform Control Console (If Equipped)

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



3.7-13 To Extend or Retract Fly Boom Using Platform Control Console

NOTE




Select desired platform capacity using platform capacity selector switch. High platform capacity is automatically selected.

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.

3.7-14 To Level Platform Using Platform Control Console

1. Depress and hold footswitch.
2. On platform leveling override switch, select  to tilt platform up or  to tilt platform down. Release switch to stop.



3.7-15 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.

3.7-16 To Raise or Lower Main Boom Using Platform Control Console

NOTE

Select desired platform capacity using platform capacity selector switch. High platform capacity is automatically selected.



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.

3.7-17 To Rotate Turret Using Platform Control Console



WARNING


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

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

NOTE

Turret can be rotated continuously 360 degrees.


3.7-18 To Sound Horn

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


3.7-19 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.

3.7-20a 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.




3.7-20b 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).

3.7-21 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 off/base/platform key switch to  off position. Remove key.
4. Turn main power disconnect switch to  off position.

For aerial platform with cold weather start option:

NOTE

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

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

3.7-22 Hydraulic Generator (If Equipped)**To start the hydraulic generator:**

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

To restore normal operation:

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

NOTE

An engine shut down will turn the generator off. All functions are disabled while the generator switch is "Ⓞ" on.

3.7-23 Glazier Tray (If Equipped)

1. Ensure that boom is retracted and platform fully lowered.
2. Place panel on tray and center it to make sure weight is evenly balanced on the platform.
3. Secure panel in place using the strap provided.

To order go to Discount-Equipment.com

3.7-24 Arctic Weather Package (If Equipped)

WARNING

- Do not use heaters if temperature is above freezing.
- Use the correct fluids, and the proper diesel fuel (refer to Cold Weather Operation Chart).
- At temperatures below -7°C (20°F), run engine at idle for at least 5 minutes before operating aerial platform.

1. Ensure the aerial platform is on level ground, boom is in stowed position and hydraulic oil level is between the minimum and maximum marks on the sight gauge.
2. Locate heater plug (item 1) in engine compartment.
3. Plug heater into a 110V / 15 Amp protected circuit for a minimum of 4 hours.
4. Start engine from base control console (refer to Section 3.7-1).

WARNING

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

IMPORTANT

Ensure heater is unplugged before operating aerial platform.

NOTE

- If aerial platform is to be parked for an extended period of time, remove the battery and store it in a warm place.
- Refer to the cold weather operation chart (Figure 3-10) to assist in operating the aerial platform in cold weather conditions.

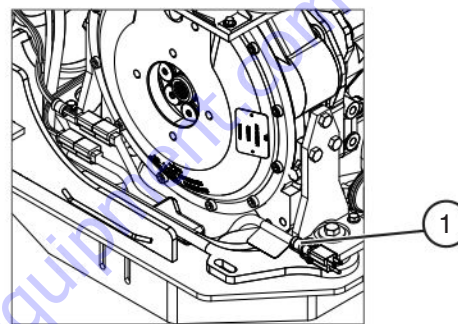


Figure 3-9. Heater Plug

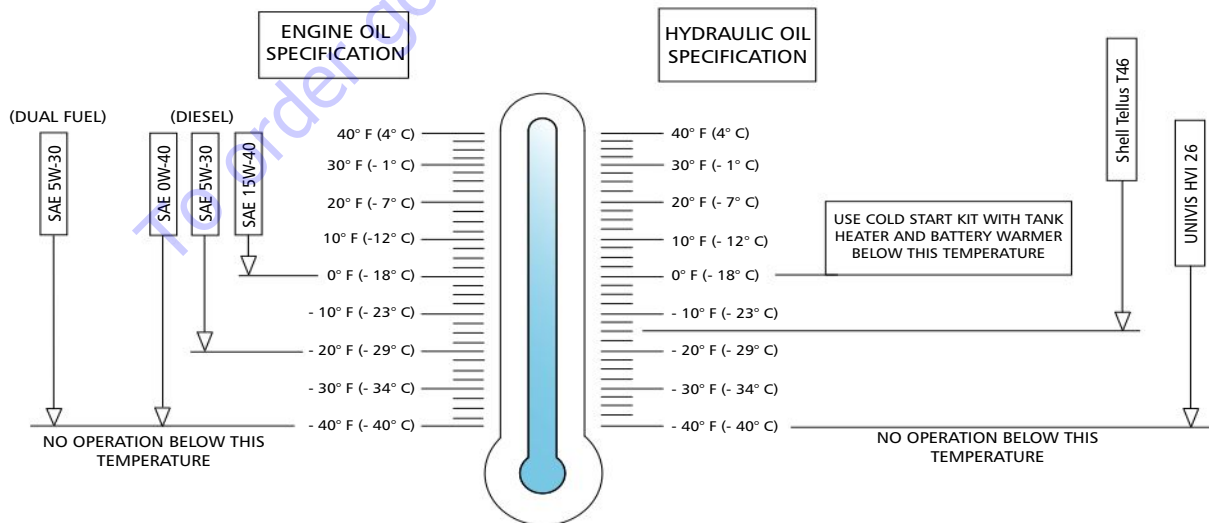


Figure 3-10. Cold Weather Operation Chart

3.8 Refueling Procedure

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



WARNING

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

- Use extreme caution while refueling aerial platforms.
- Ensure that engine and all systems are turned off before refueling.
- Refuel the aerial platform only in a well ventilated area away from open flame and other sources of ignition, authorized by your employer and supervisor.
- Never try to start an aerial platform if you smell gasoline.
- Gasoline engine models:
Use only unleaded gasoline with an octane rating 87 or higher.
- Diesel engine models:
Use ultra low sulfur fuel only.



WARNING

Do not smoke in an area where aerial platforms 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 aerial platform ensure there is enough fuel for expected use.

3.8-1 Refuelling (Gasoline or Diesel)

IMPORTANT

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

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

3.9 Loading/Unloading

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

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

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

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

3.9-1 Loading and Tie-down

1. Lock turret using turret transportation lock (refer to [Section 3.9-2](#)).
2. Turn key switch to “○” off position and remove key before transporting.
3. Turn main power disconnect switch to “○” off position.
4. Chock aerial platform wheels (if necessary).

5. Remove all loose items.
6. Anchor down aerial platform to transport surface using tie-down points (refer to [Figure 3-11](#)).
7. Secure boom from side-to-side movement using lower platform mount between boom end and platform. Do not use excessive downward force when securing boom section.
8. Place block underneath platform rotator and gently lower rotator onto block and secure in place. Strap must be secured underneath hoses and cables to avoid damage to aerial platform (refer to [Figures 3-12 & 3-13](#)). Do not use excessive downward force when securing platform.



WARNING

Inspect aerial platform for loose or unsecured items.

NOTE

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

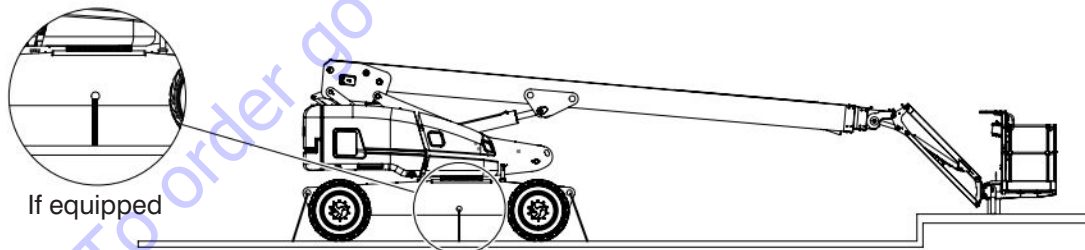
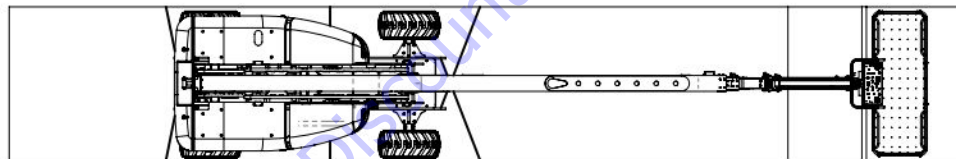


Figure 3-11. Tie-down Points

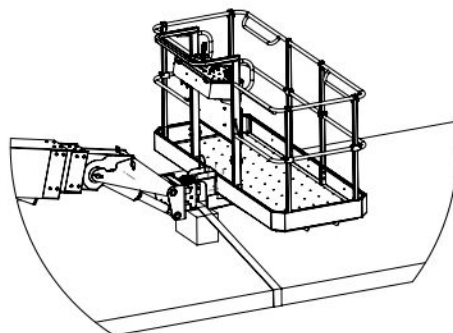


Figure 3-12. 82T Platform Tie-down

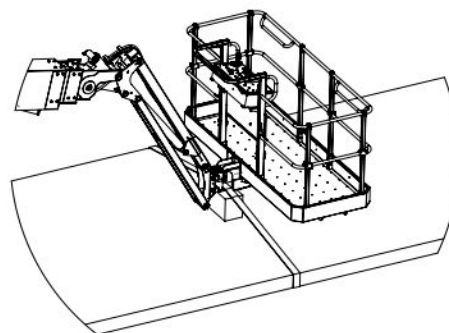


Figure 3-13. 86T Platform Tie-down

3.9-2 Locking the Turret

1. Ensure that turret is positioned so that turret transportation lock tube (item 2 – Figure 3-14) is aligned into one of two turret locking points on the chassis.
2. Lift turret lock retaining pin (item 1 – Figure 3-14) and rotate 90 degrees. Lower turret lock retaining pin into locked position.

3.9-3 Lifting

IMPORTANT
Optional lifting points are required.

1. Place boom in stowed position, centered between drive wheels. Lock turret using turret transportation locking pin (refer to Section 3.9-2).
2. Turn main power disconnect switch to “O” off position.

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



WARNING
When lifting the aerial platform, lifting devices must be attached to designated lift points only (refer to Figure 3-15).



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

4. Properly adjust rigging to ensure aerial platform remains level during lifting. See Center of gravity location (Figure 3-15).

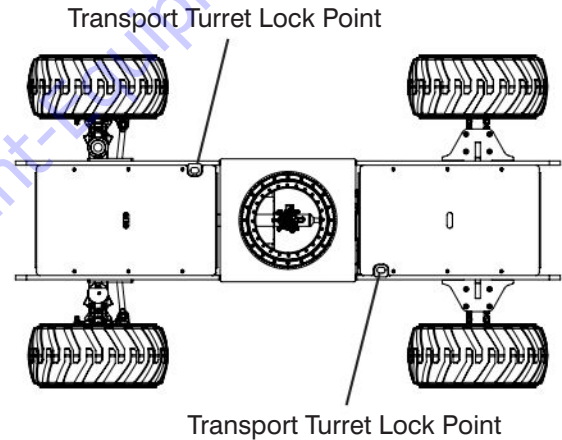
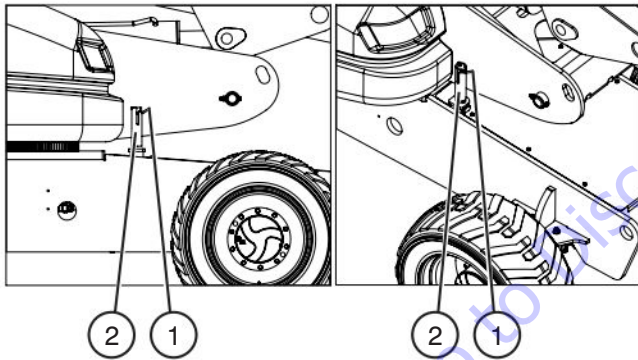


Figure 3-14. Turret Transportation Lock & Locking Points

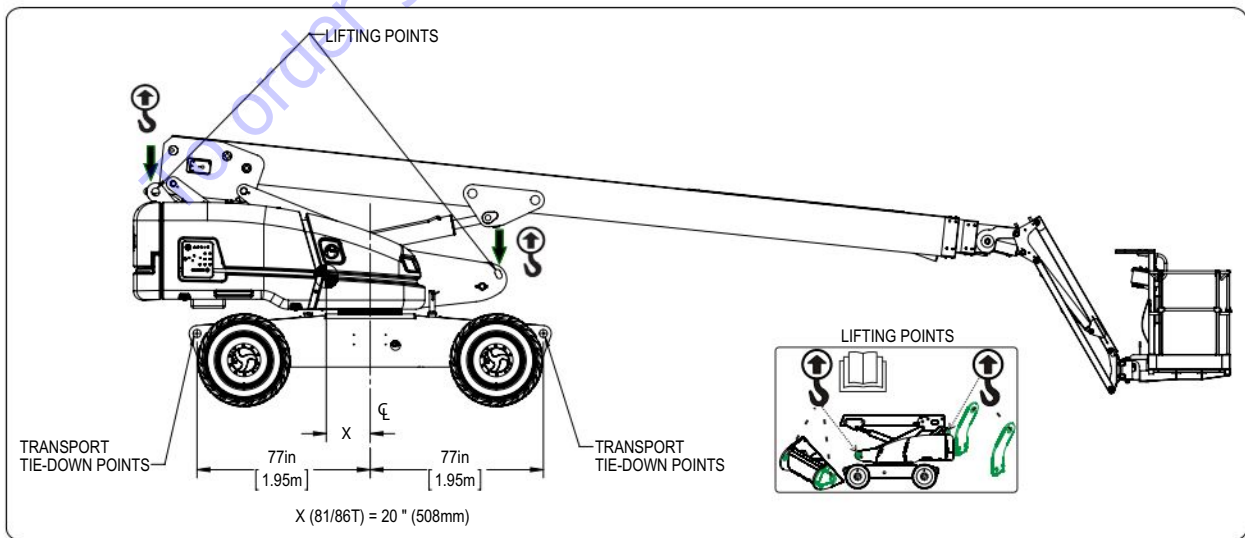


Figure 3-15. Lifting Points

3.10 Chassis Tilt

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

IMPORTANT

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



WARNING

If the aerial platform 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.

3.10-1 Counterweight Uphill

If the aerial platform becomes tilted with the counterweight uphill (refer to [Figure 3-16](#)) follow the steps below to return to a lowered and retracted position.

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

3.10-2 Counterweight Downhill

If the aerial platform becomes tilted with the counterweight downhill (refer to [Figure 3-17](#)) follow the steps below to return to a lowered and retracted position.

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



Figure 3-16. Counterweight Uphill

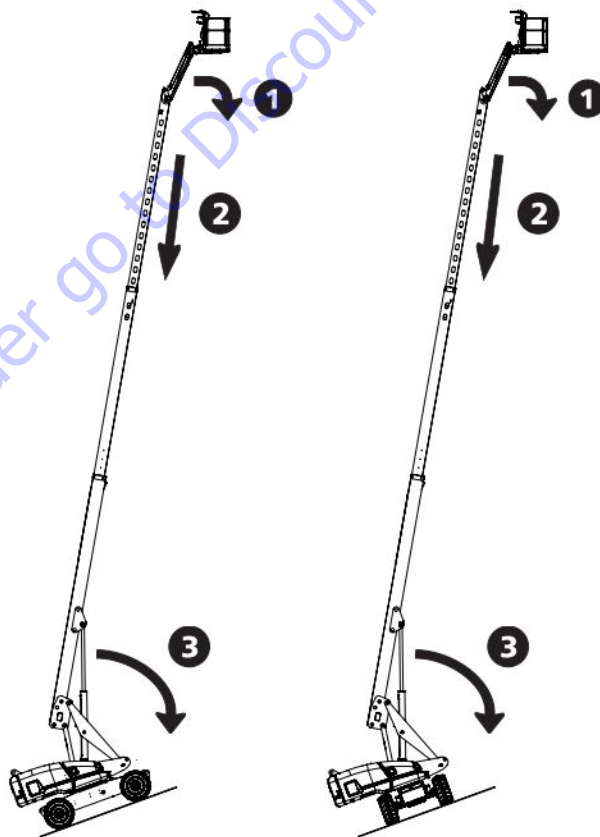


Figure 3-17. Counterweight Downhill

3.11 Technical Diagrams (Continued)

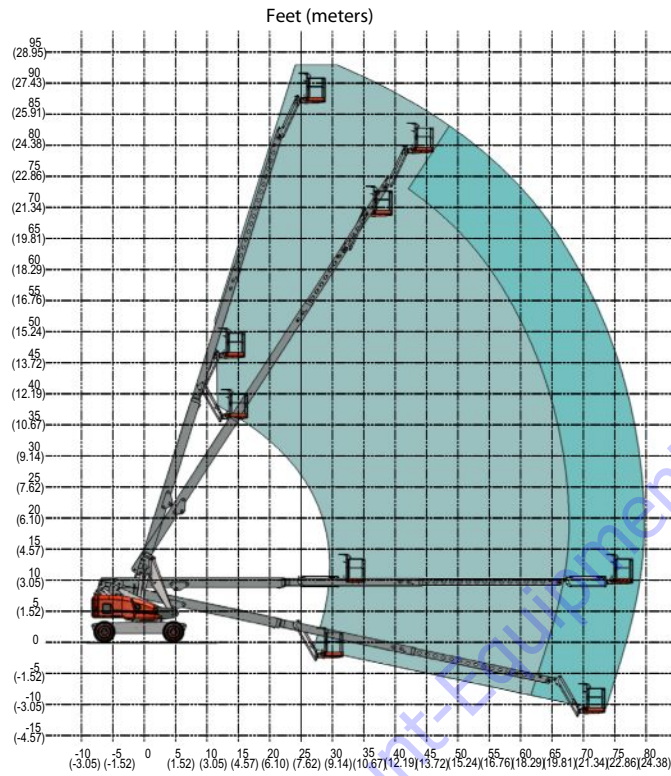


Figure 3-20. Reach Diagram - SJ86T

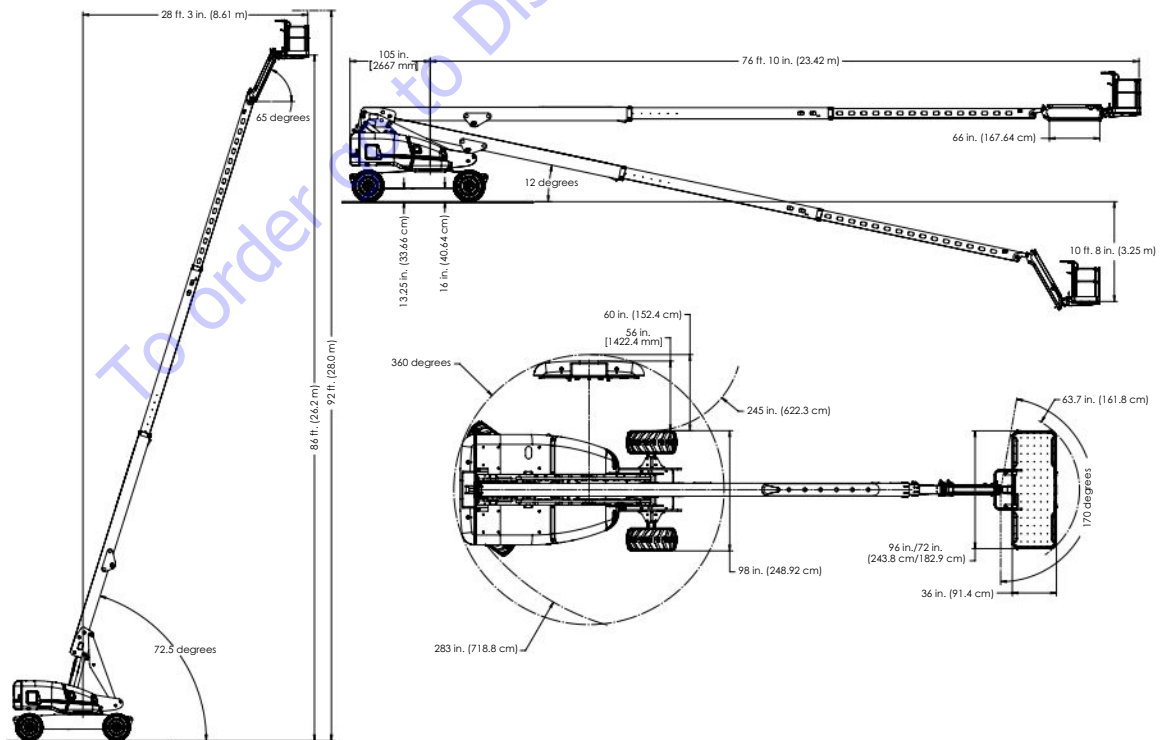


Figure 3-21a. Dimensions - SJ86T

3.11 Technical Diagrams (Continued)

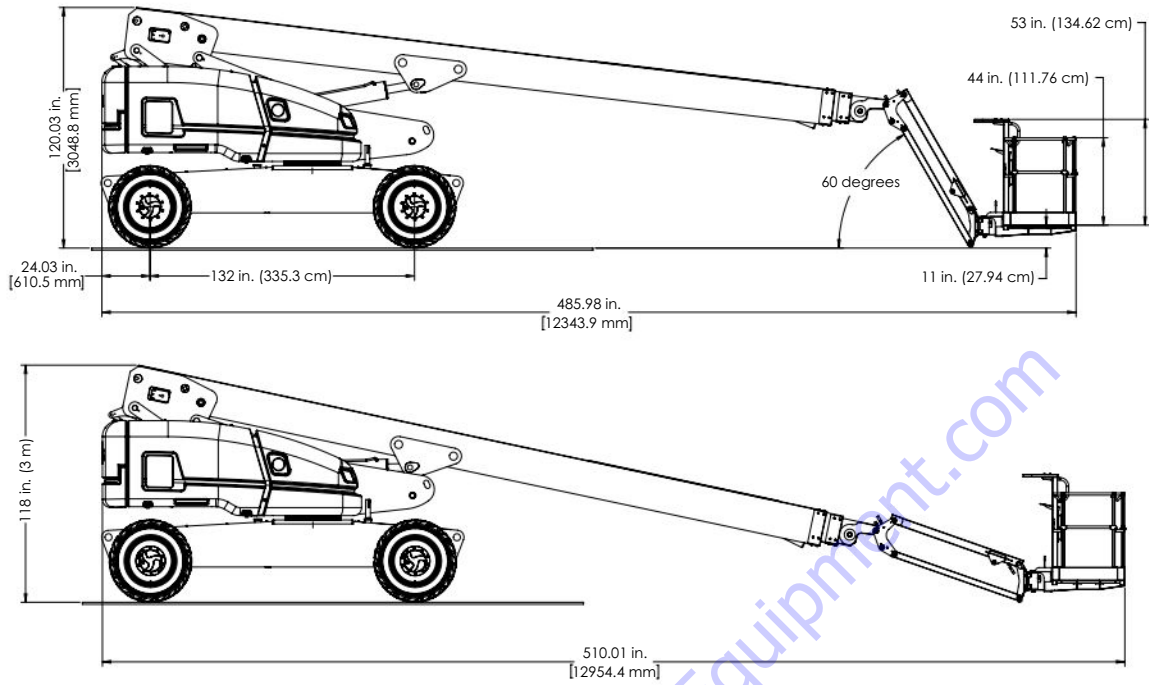


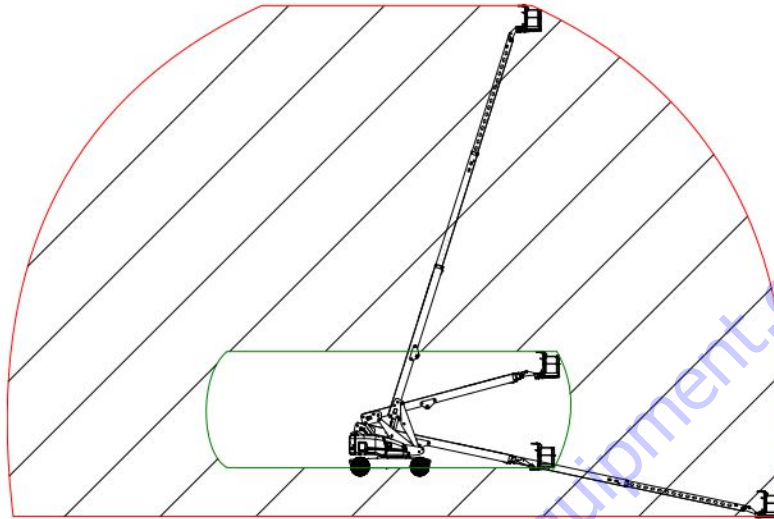
Figure 3-21b. Dimensions - SJ86T

3.11 Technical Diagrams (Continued)



WARNING

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





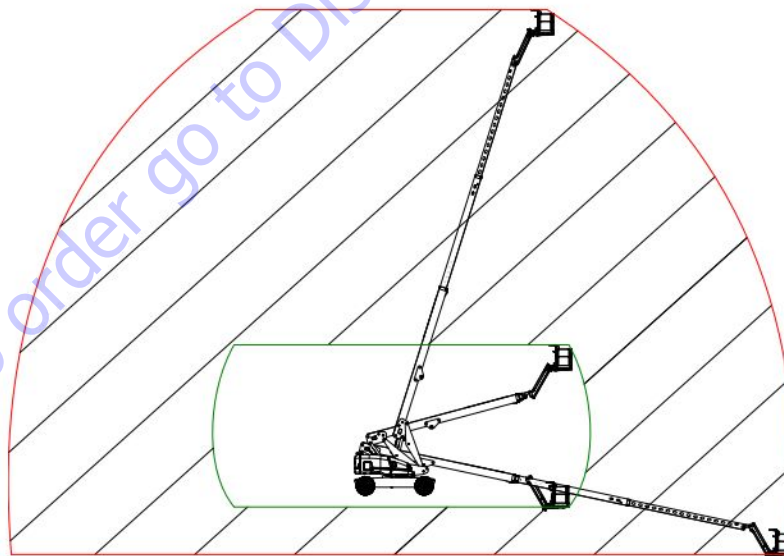
-  Axle oscillation free (travel mode) - drive speed 3.0 mph (4.8 km/h) max.
-  Axle oscillation locked (work mode) - drive speed 0.5 mph (0.8 km/h) max.

Figure 3-22. Axle Oscillation - SJ 82T





-  Axle oscillation free (travel mode) - drive speed 3.0 mph (4.8 km/h) max.
-  Axle oscillation locked (work mode) - drive speed 0.5 mph (0.8 km/h) max.

Figure 3-23. Axle Oscillation - SJ 86T

Table 4.1 Standard and Optional Features

MODEL	SJ 82T	SJ 86T
STANDARD EQUIPMENT		
Platform controls	✓	✓
Base controls	✓	✓
Four-wheel drive	✓	✓
Oscillating axle (steer)	✓	✓
Tri-entry drop bar	✓	✓
Variable speed drive and function controls	✓	✓
Continuous drive and steer directional sensing	✓	✓
12 Volt DC emergency power	✓	✓
Engine anti-restart protection	✓	✓
Glow plug heaters (diesel only)	✓	✓
Spring-applied hydraulically released parking brake	✓	✓
110V outlet on platform with GFI	✓	✓
Diesel engine	✓	✓
Operator horn	✓	✓
All function motion alarm	✓	✓
Manual brake release	✓	✓
Foam-filled tires	✓	✓
5' 6" jib	✓	✓
96 x 36 inch platform	✓	✓
Dual capacity rating	✓	✓
OPTIONAL EQUIPMENT		
Side entry spring hinged gate	✓	✓
Welder package with 12kW hydraulic generator	✓	✓
Oil cooler (included with generators)	✓	✓
3500W hydraulic generator	✓	✓
Cold weather start kit (diesel)	✓	✓
Arctic weather package	✓	✓
Glazier package	✓	✓
Flashing amber light	✓	✓
Platform work light	✓	✓
Air line to platform	✓	✓
72 x 36 inch platform	✓	✓
Foam-filled non-marking tires	✓	✓
Pipe rack	✓	✓
Hazardous environment kit	✓	✓
Control box cover	✓	✓
Auxiliary top rail	✓	✓
Lifting lugs	✓	✓
SGM	✓	✓
SGE	✓	✓
Positive Air Shutoff	✓	✓

1134AD-ANSI

Table 4.2a Specifications and Features

MODEL			SJ 82T	SJ 86T
Maximum Load Capacity			1000 lb./500 lb. (453 kg/ 227 kg)	750 lb./500 lb. (340 kg/ 227 kg)
Platform Size	Total Platform Length (Outside)		96 in./72 in. (243.8 cm/ 182.9 cm)	
	Total Platform Depth (Outside)		36 in. (91.4 cm)	
Height	Working		88 ft. (26.8 m)	92 ft. (28.0 m)
	Platform Elevated		82 ft. (24.9 m)	86 ft. (26.2 m)
	Drive		driveable at all heights	
	Stowed		118 in. (3 m)	
Length	Overall with platform		37 ft. 10 in. (11.53 m)	42 ft. 6 in. (12.95 m)
Width	Outside std. tires		98 in. (248.92 cm)	
Weight	Weight (with foam-filled tires)		37, 600 lb. (17, 055 kg)	38, 000 lb. (17, 236 kg)
Platform Rotation			170 degrees	
Horizontal Reach			72 ft. 6 in. (22.1 m)	76 ft. 10 in. (23.4 m)
Wheelbase			132 in. (335.3 cm)	
Turret Rotation			360 degrees continuous	
Turret Tailswing			60 in. (152.4 cm)	
Gradeability (torque equivalent to)			45%	
Ground Clearance Between Wheels			13.25 in. (33.65 cm)	
Turning Radius	Inside	4WD	245 in. (622.3 cm)	
	Outside		283 in. (718.8 cm)	
System Voltage			12 V DC	
Battery	Type		Lead/Acid	
	Cold Cranking Amperes		800 A	
Operating Times	Boom up		90 seconds (approx.)	
	Boom down		90 seconds (approx.)	
	Boom extend		60 seconds (approx.)	
	Boom retract		60 seconds (approx.)	
	Jib up		N/A	20 seconds (approx.)
	Jib down		N/A	17 seconds (approx.)
	Turret rotate - counterclockwise 360° (retracted)		130 seconds (approx.)	
	Turret rotate - counterclockwise 360° (extended)		210 seconds (approx.)	
Platform rotate - full			10 seconds (approx.)	
Driving Speeds	Drive Speed (maximum-stowed)		3.0 mph (4.8 km/h)	
	Drive Speed (maximum-elevated)		0.5 mph (0.8 km/h)	






1135AC-ANSI

Table 4.2b Specifications and Features

MODEL				SJ 82T	SJ 86T
Engine - Deutz TD2.9	Engine Type			Deutz TD2.9	
	Fuel Type			Diesel	
	Fuel Tank Capacity			45 gal (170.3 l)	
	Standard Oil Factory Fill	Ambient Temperature Limits	0°F to 115°F (- 18°C to +45°C)	SAE 15W-40 API CF/CG/CH-6	
	Cold Lube Oil Option		- 20°F to 90°F (- 29°C to +32°C)	SAE 5W-30 API CF/CG/CH-6	
	Arctic Lube Oil Option		- 40°F to 115°F (- 40°C to +45°C)	SAE 0W-40 API CF/CG/CH-6	
	Approved Alternates		See Engine Manual		
Lube Oil Sump Capacity			2.64 gal (10.0 l)		
Engine - Deutz D2011L04i	Engine Type			Deutz D2011L04i	
	Fuel Type			Diesel	
	Fuel Tank Capacity			45 gal (170.3 l)	
	Standard Oil Factory Fill	Ambient Temperature Limits	0°F to 115°F (- 18°C to +45°C)	SAE 15W-40 API CF/CG/CH-6	
	Cold Lube Oil Option		- 20°F to 90°F (- 29°C to +32°C)	SAE 5W-30 API CF/CG/CH-6	
	Arctic Lube Oil Option		- 40°F to 115°F (- 40°C to +45°C)	SAE 0W-40 API CF/CG/CH-6	
	Approved Alternates		See Engine Manual		
Lube Oil Sump Capacity			2.64 gal (10.0 l)		
Hydraulic Oil	Hyd Cooler Option	Ambient Temperature Limits	100°F to 115°F (+38°C to +45°C)	Oil cooler option recommended	
	Standard Factory Fill		-15°F to 100°F (-26°C to +38°C)	Shell Tellus T48	
	Arctic Oil Option		- 40°F to 100°F (- 40°C to +38°C)	Esso/Mobil UNIVIS HVI 26 Petro-Canada HYDREX EXTREME	
	Approved Alternates		-15°F to 100°F (-26°C to +38°C)	Mobilfluid 424, Esso UNIVIS N46, Chevron Rycon MV	
			- 40°F to 80°F (- 40°C to +27°C)	Mobil DTE 13M, Esso UNIVIS N22 Petro-Canada HYDREX MV Arctic 17	
	Hydraulic Tank Capacity			59 gal (223.3 l)	

1136AB-ANSI

Table 4.3 Owner’s Annual Inspection Record

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

1000AB

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 13 months.



	Pictorial	Description
*		Inspection Date
**		Inspector Signature

Table 4.4 Maximum Platform Capacities

	SJ 82T	SJ 86T
Total Capacity	1000 lb. (453 kg)/ 500 lb. (227 kg)	750 lb. (340 kg)/ 500 lb. (227 kg)
	3 Persons/ 2 Persons	3 Persons/ 2 Persons
Maximum Wind	28 mph(12.5 m/s)	28 mph(12.5 m/s)
Maximum Side Force	90 lbf (400 N)	90 lbf (400N)

1137AA-ANSI

Table 4.5 Tire/Wheel Specifications

	SJ 82T/86T
Tire Size	Outrigger R4 18-625
	18.71" x 41.16" (47.52 cm x 104.55 cm)
Type	Foam-filled
Tire Ply Rating	16
Wheel Nuts Torque	275 ft-lb (373 Nm)

1138AB-ANSI

**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.

To order go to Discount-Equipment.com

Table 4.6 Floor Loading Pressure

MODEL	Gross Aerial Platform Weight		Total Aerial Platform Load					
			Wheel		LCP		OUP	
	lb.	kg	lb.	kg	psi	kPa	psf	kPa
SJ 82T	38,600	17,510	17,850	8,100	175	1,210	325	16.0
SJ 86T	38,750	17,580	17,850	8,100	175	1,210	330	16.0

1139AB-ANSI

- 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 350 lb. (158.8 kg) to total aerial platform weight and 175 lb. (79.4 kg) to max. wheel load.

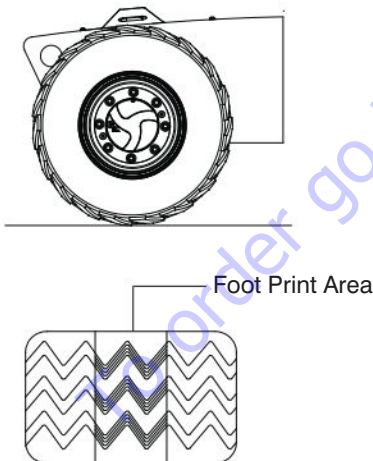
NOTE:

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.

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



Overall Uniform Pressure (OUP):

Base Area = Length x Width

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

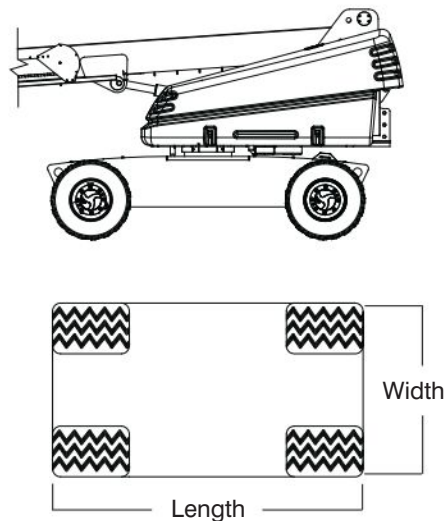


Table 4.7 Operator's Daily Inspection Checklist



OPERATOR'S DAILY INSPECTION CHECKLIST

Serial Number: _____

Model: _____

Hourmeter Reading: _____

Date: _____

Time: _____

Operator's Name (Printed): _____

Operator's Signature: _____

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

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

	N/A	P	F	R
Visual and Daily Maintenance Inspections				
Labels				
Electrical				
Limit Switches				
Hydraulic				
Engine Compartment				
Main Power Disconnect Switch				
Battery				
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				
High Pressure Filter				
Brake and Main Manifolds				
Emergency Power Unit				
Fuel Tank				
Fuel Leaks				
Base				
Turret Transportation Lock				
Drive Axle				
Tie Rod				
Oscillating Cylinder Assembly				
Wheel/Tire Assembly				
Swing Drive Motor				
Steer Cylinder Assembly				
Turret Rotation Gear				
Rotary Manifold				
Manuels				
Platform Assembly				
Platform Control Console				
Rotary Actuator				
Jib (If Equipped)				

	N/A	P	F	R
Boom				
Cylinders				
Wear Pads				
Hoses				
E-Chain				
Cables				
Optional Equipment/Attachments				
Hydraulic Generator (If Equipped)				
Welder (If Equipped)				
Work Light (If Equipped)				
Flashing Amber Light (If Equipped)				
Glazier Tray (If Equipped)				
Arctic Weather Package (If Equipped)				
Battery Warmer/Hydraulic Oil Heater (If Equipped)				
Function Tests				
Test Main Power Disconnect Switch				
Base Control Console				
Test Emergency Stop				
Test Start/Function Enable/Emergency Power Switch & All Boom Functions				
Test Platform Self-leveling				
Test Emergency Power				
Test Off/Base/Platform Switch				
Test Platform Capacity Selector Switch				
Test Positive Air Shutoff (If Equipped)				
Platform Control Console				
Test Footswitch				
Test Engine/Start/On/Off Switch				
Test Emergency Stop				
Test Manual Platform Leveling				
Test Steering				
Test Driving Function				
Test Driving Speed				
Test Emergency Power				
Test Horn				
Test Brakes				
Test Platform Capacity Selector Switch				
Test Secondary Guarding Electrical (SGE) (If Equipped)				
Test Oscillating Axles				
Test Cables				
Test Differential Lock Switch				

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

1140AD-ANSI

Label Legend



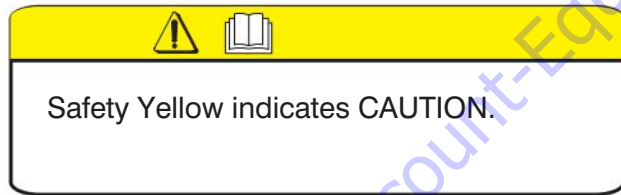
Safety Red indicates DANGER.

Safety Red



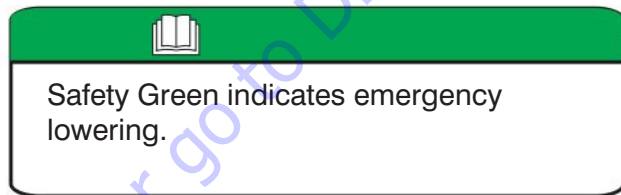
Safety Orange indicates WARNING.

Safety Orange



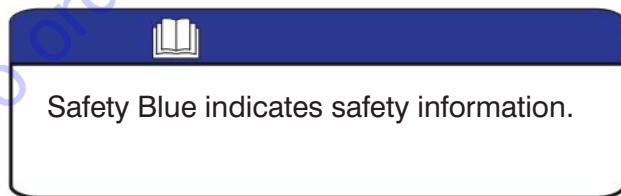
Safety Yellow indicates CAUTION.

Safety Yellow



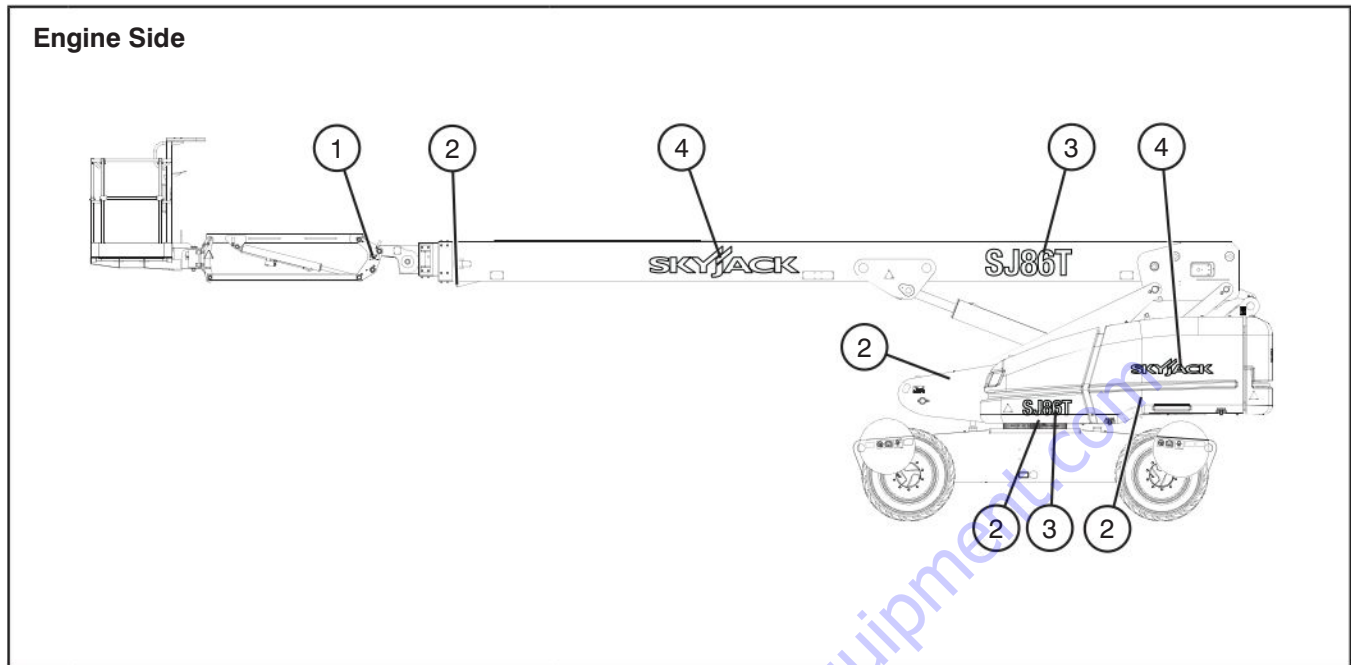
Safety Green indicates emergency lowering.

Safety Green

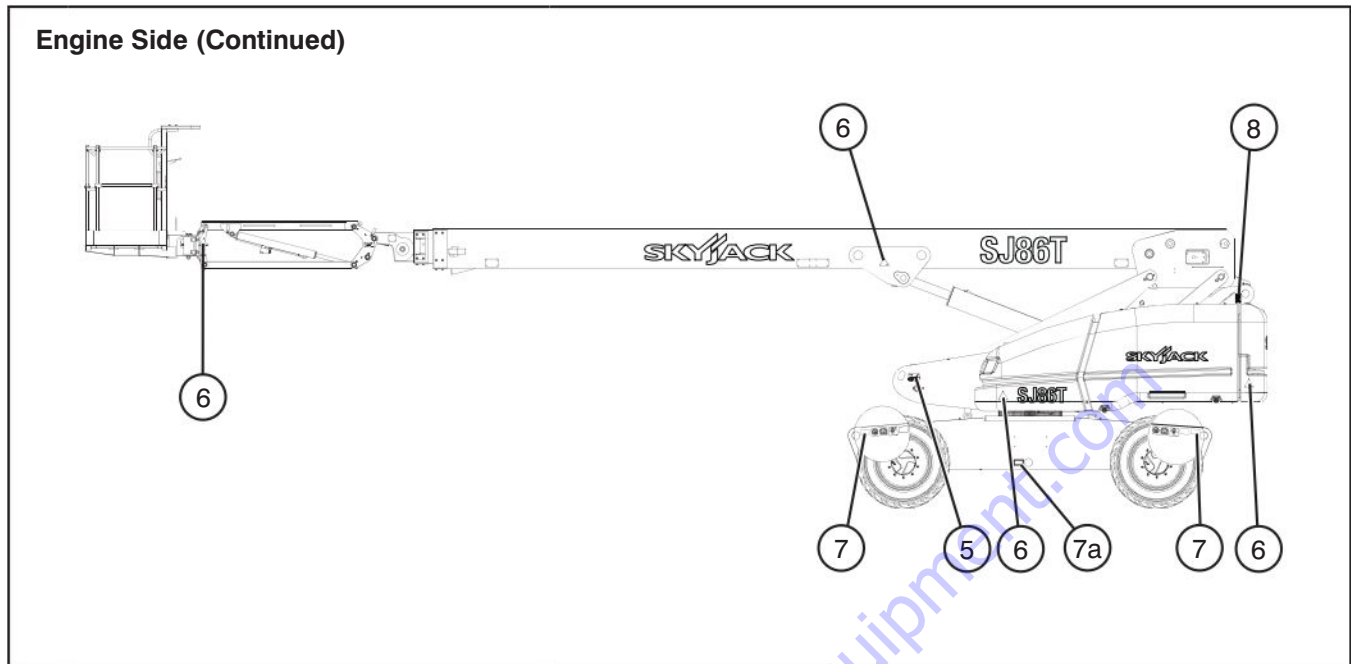


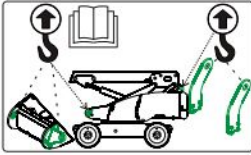



Safety Blue indicates safety information.

Safety Blue

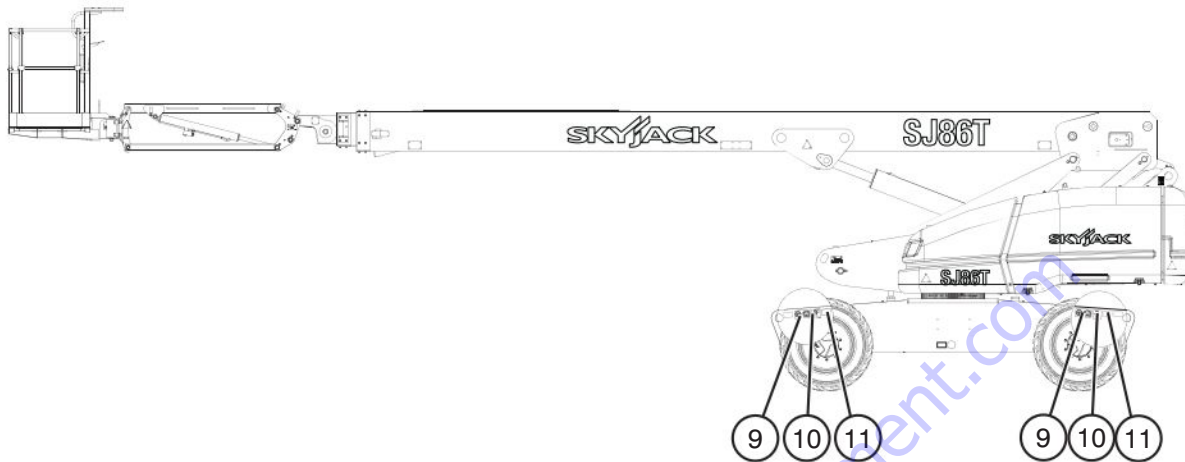


No.	Label Pictorial	Description
1		<p>Crushing Hazard</p> <p>Danger - Crushing hazard</p>
2		<p>Warning - Do Not Alter</p> <p>Do not alter or disable limit switches or other safety devices.</p>
3		<p>Model Number*</p> <p>Product Identifier *Model number will vary, may not be as shown.</p>
4		<p>Skyjack Logo</p> <p>Skyjack</p>



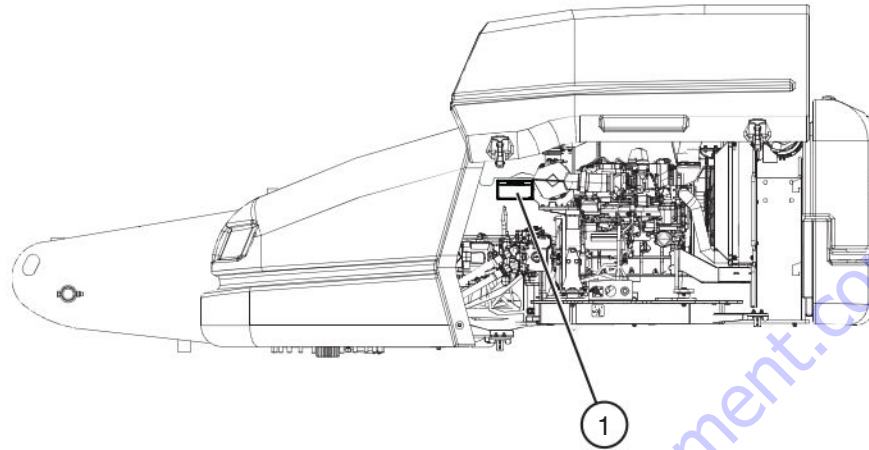
No.	Label Pictorial	Description
5		<p>Lift Points Optional lifting points required.</p> <p>Only use these points for lifting.</p>
6		<p>Body Crushing Hazard</p> <p>Danger - Body crushing hazard</p>
7		<p>Tie Down Points</p> <p>Only use these points for tying down.</p>
7a		<p>Tie Down Points (If Equipped)</p> <p>Only use these points for tying down.</p>
8		<p>Lift Points</p> <p>Only use these points for lifting.</p>

Engine Side (Continued)



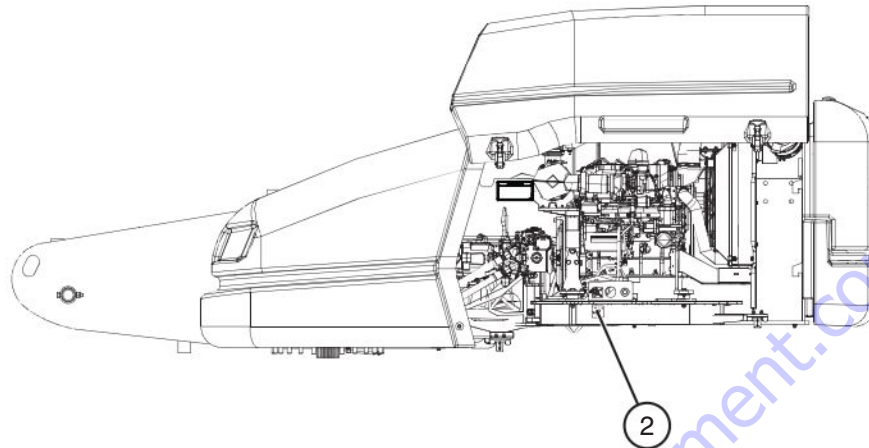
No.	Label Pictorial	Description
9		<p>Wheel Specifications</p> <p>Refer to manual for wheel type, offset, pressure and torque.</p>
10		<p>Wheel Load*</p> <p>Indicates rated wheel load. *Wheel load will vary over different aerial platforms.</p>
11		<p>Foam-filled Tire</p> <p>Indicates foam-filled tire.</p>

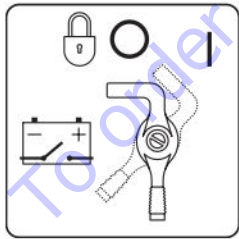
Engine Compartment

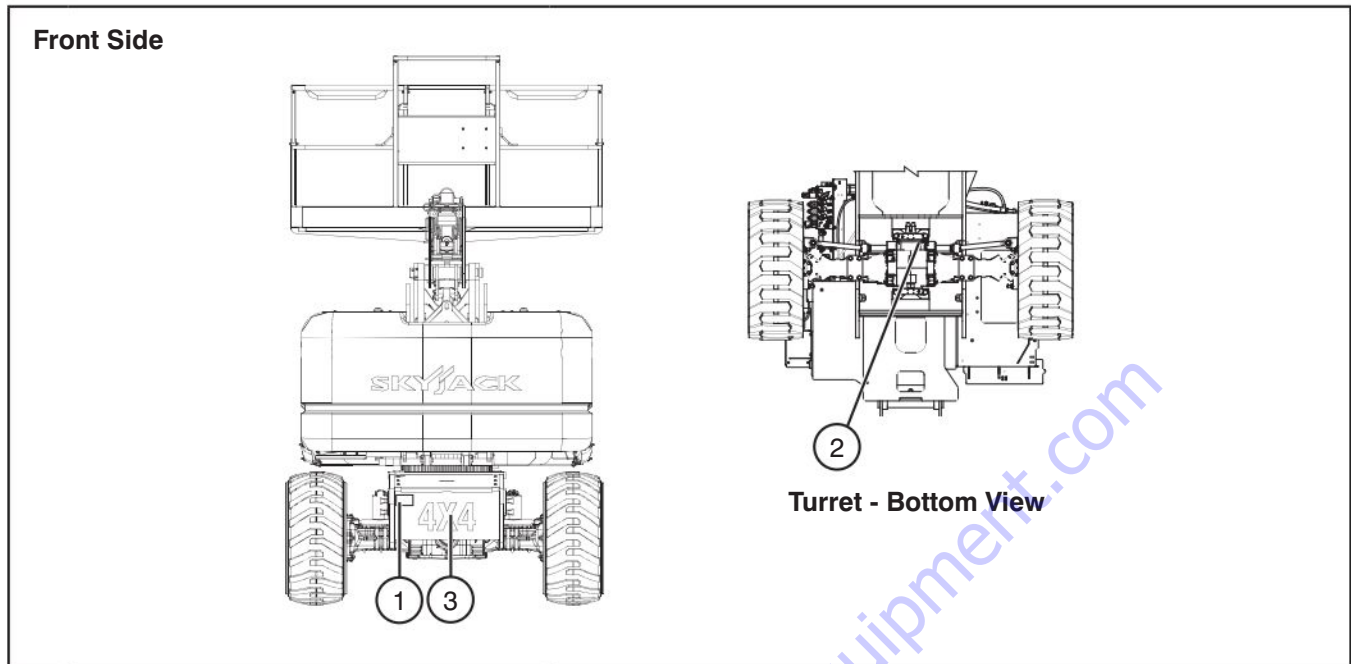


No.	Label Pictorial	Description
1		<p>Winching/Towing/Pushing Procedure Refer to Operating manual.</p> <ol style="list-style-type: none"> 1. Block or chock wheels to prevent aerial platform from rolling. 2. Turn main power disconnect switch to off position. At engine side: 3. Locate bypass valve (marked 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 aerial platform 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). <p style="text-align: center;">NOTE Before operation, ensure all blocks are removed from wheels.</p>

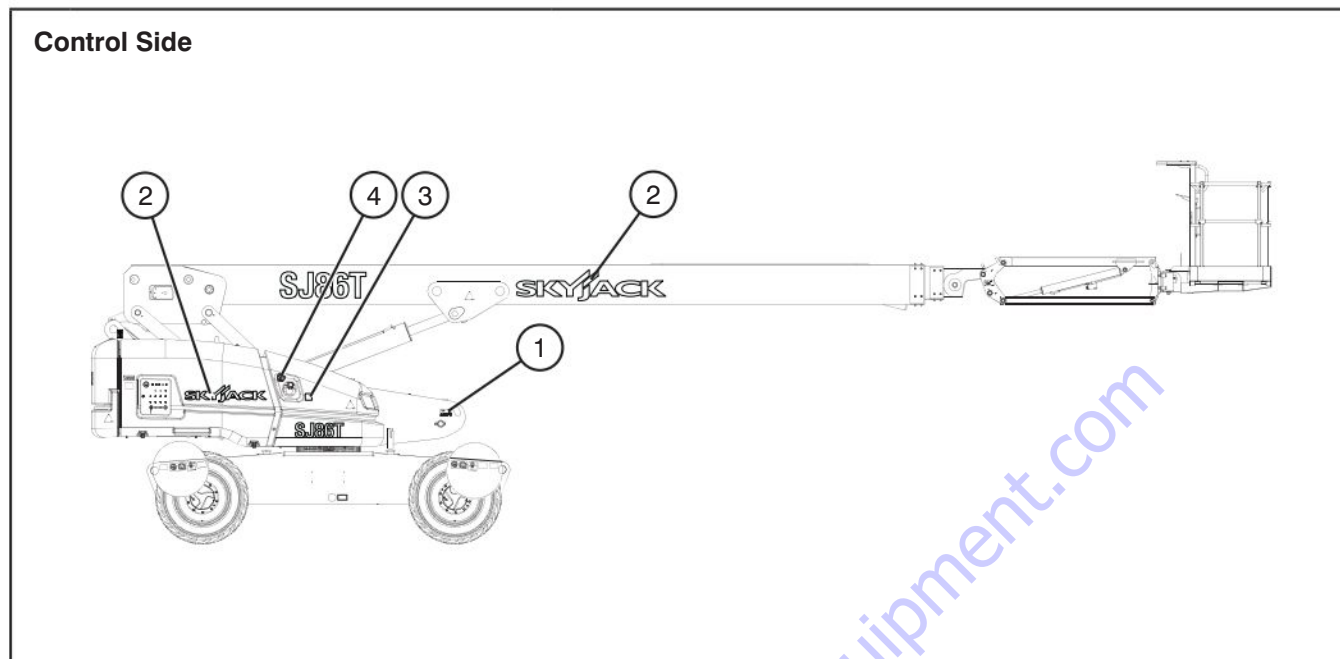
Engine Compartment

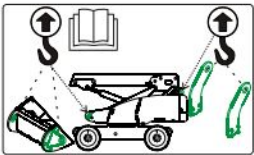

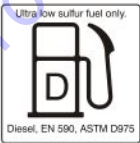



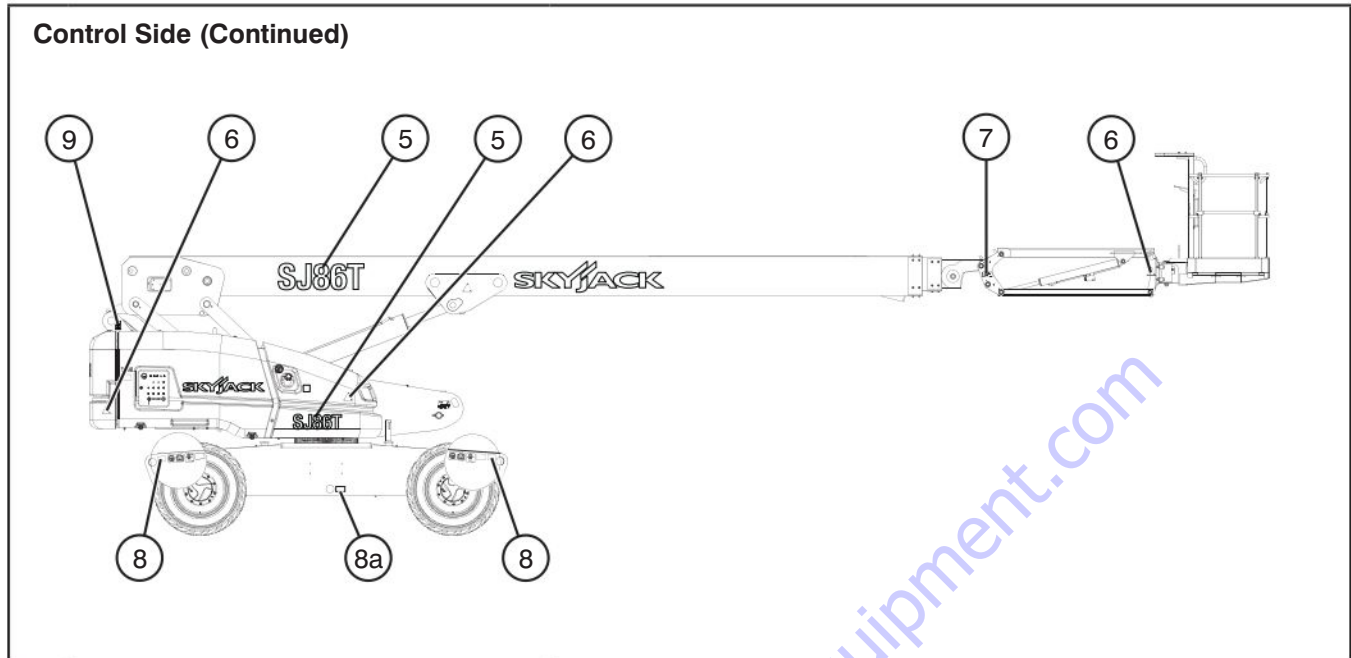
No.	Label Pictorial	Description
2		<p>Main Power Disconnect</p> <p>Main power disconnect lever</p>








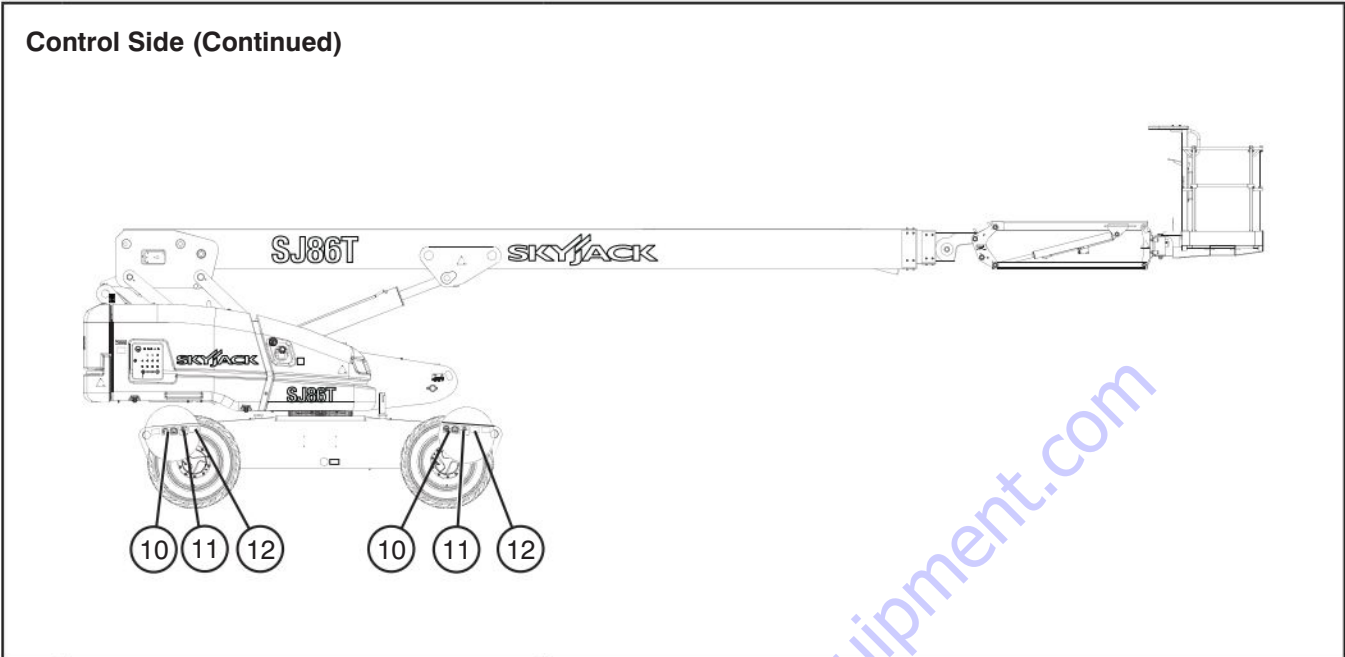
No.	Label Pictorial	Description
1		<p>Serial Plate*</p> <p>Product identification and specifications *Serial plate will vary, may not be as shown.</p>
2		<p>Warning - Do Not Alter</p> <p>Do not alter or disable limit switches or other safety devices.</p>
3		<p>4x4 (If Equipped)</p> <p>Product Identifier - 4 wheel drive</p>



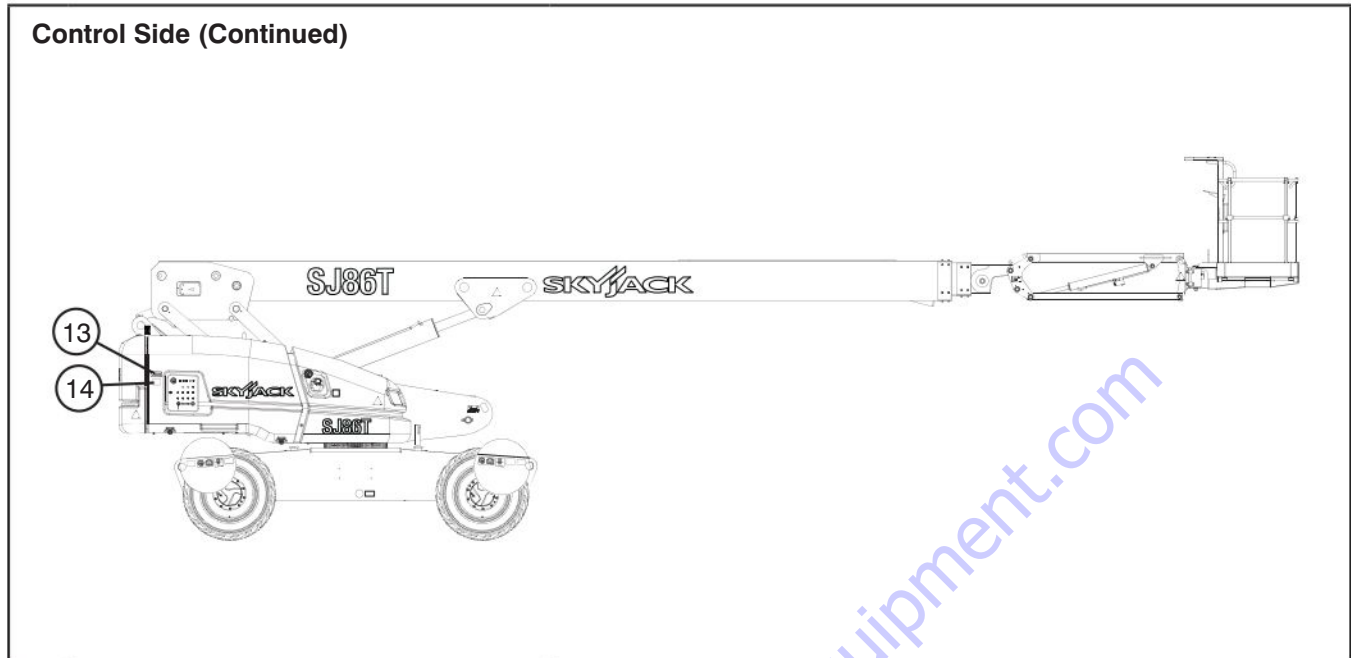
No.	Label Pictorial	Description
1		<p>Lift Points Optional lifting points required.</p> <p>Only use these points for lifting.</p>
2		<p>Skyjack Logo</p> <p>Skyjack</p>
3		<p>Diesel</p> <p>Use ultra low sulfur fuel only.</p>
4		<p>No Smoking</p> <p>Do not smoke near this location.</p>



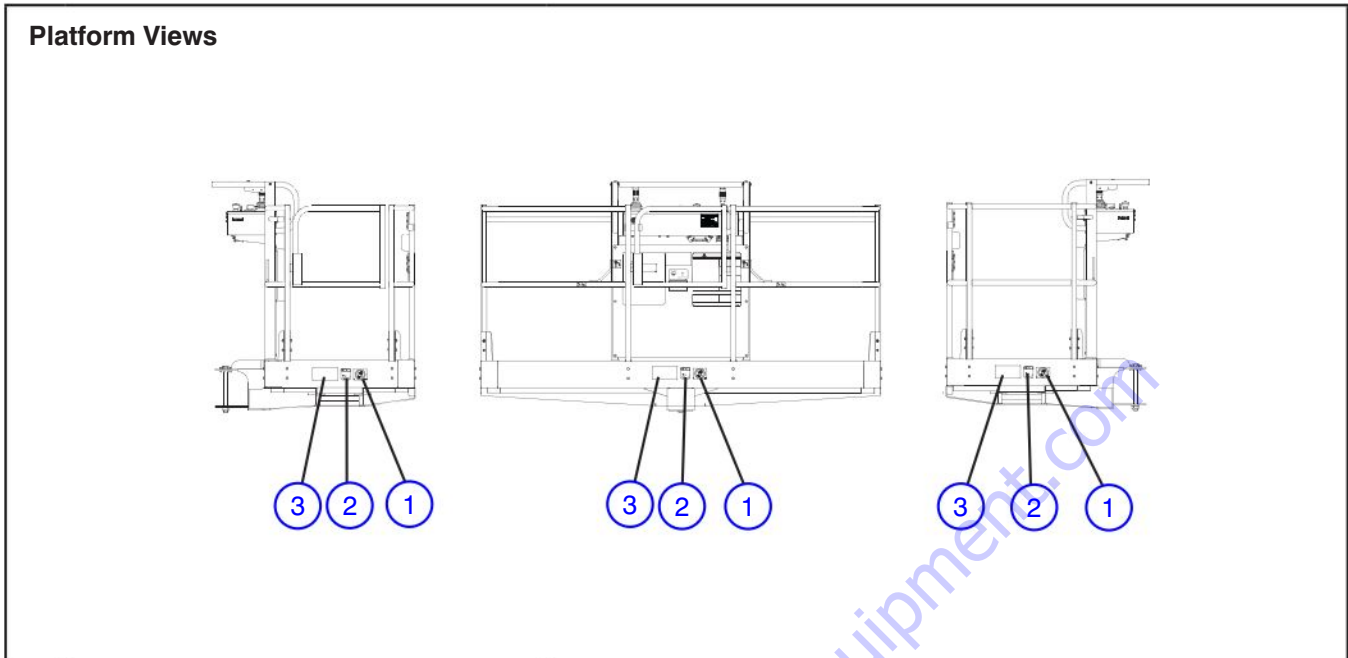
No.	Label Pictorial	Description
5		<p>Model Number*</p> <p>Product Identifier *Model number will vary, may not be as shown.</p>
6		<p>Body Crushing Hazard</p> <p>Danger - Body crushing hazard</p>
7		<p>Crushing Hazard</p> <p>Danger - Crushing hazard</p>
8		<p>Tie Down Points</p> <p>Only use these points for tying down.</p>
8a		<p>Tie Down Points (If Equipped)</p> <p>Only use these points for tying down.</p>
9		<p>Lift Points</p> <p>Only use these points for lifting.</p>



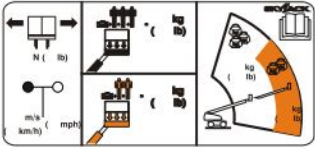


No.	Label Pictorial	Description
10		<p>Wheel Specifications Refer to manual for wheel type, offset, pressure and torque.</p>
11		<p>Wheel Load* Indicates rated wheel load. *Wheel load will vary over different aerial platforms.</p>
12		<p>Foam-filled Tire Indicates foam-filled tire.</p>

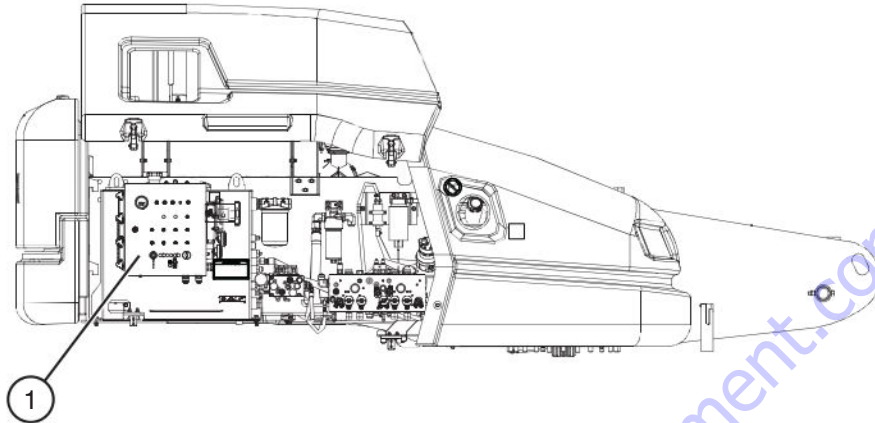


No.	Label Pictorial	Description
13		<p>Annual Inspection</p> <p>Ensure that work platform has received annual inspection prior to operation.</p>
14		<p>Emergency Lowering Procedure Refer to Operating manual.</p> <ol style="list-style-type: none"> 1. Pull out “” emergency stop button. 2. Turn off/base/platform key switch to “” base position. 3. Select “” emergency power position from start/function enable/emergency power switch. 4. Activate desired boom function to lower platform.

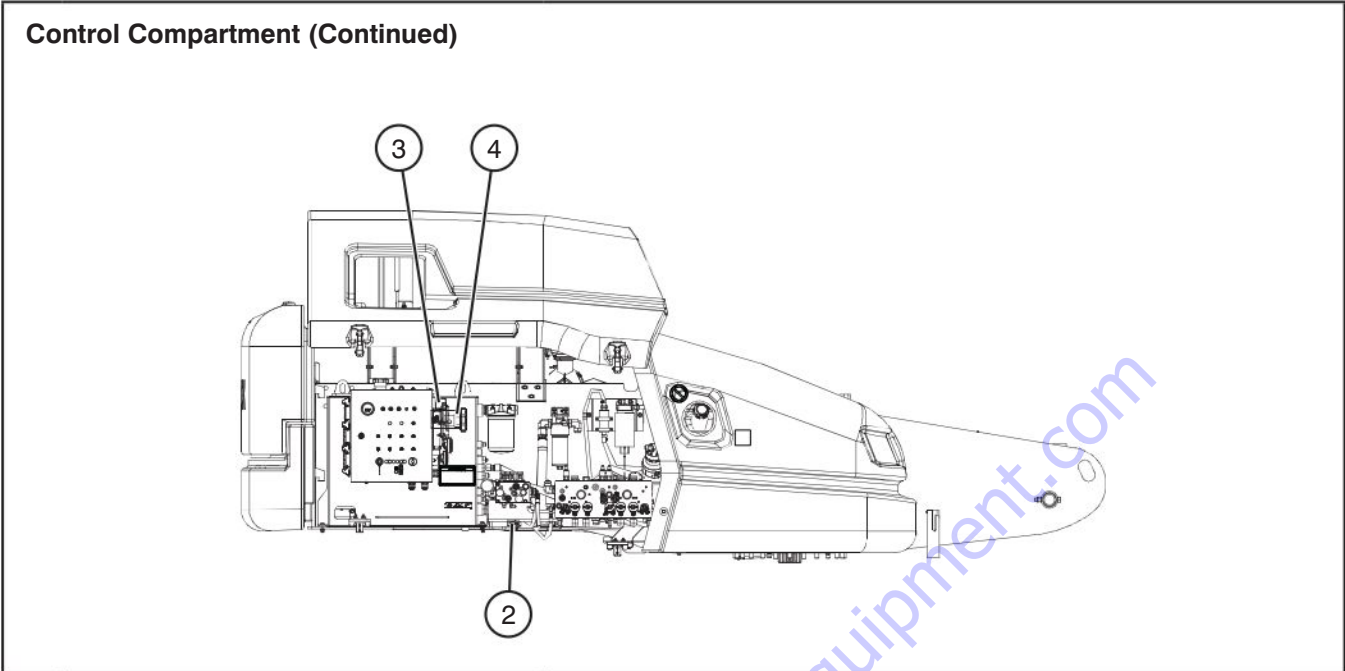





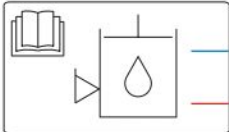
No.	Label Pictorial	Description
1		<p>No Jewelry</p> <p>Caution - Do not wear jewelry.</p>
2		<p>Operator's Daily Inspection</p> <p>Refer to the Operating manual. Perform visual inspection and function tests at the beginning of each shift. Refer to Table 4.7 Operator's Daily Inspection Checklist.</p>
3		<p>Platform Capacity*</p> <p>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. *Select either "high" or "low" platform capacity.</p> <p>Horizontal Load Rating</p> <p>Apply no more than the indicated side load. Operate below indicated wind speed only.</p>

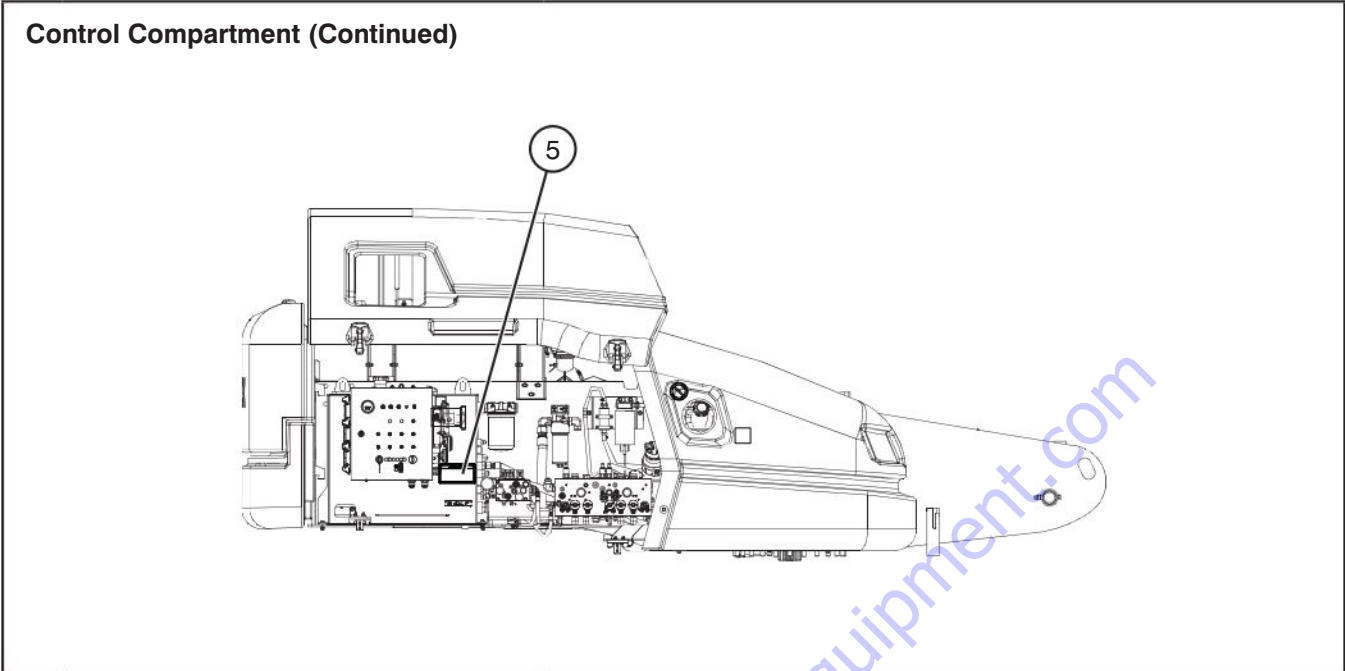
Control Compartment



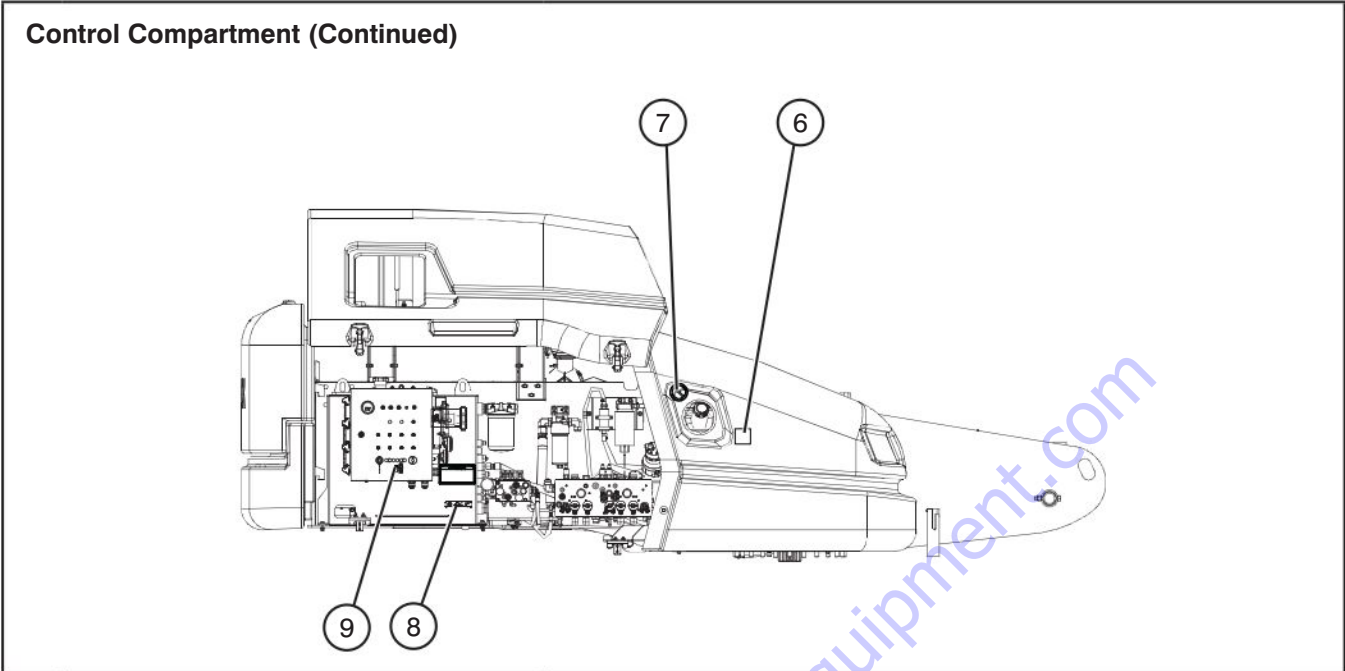
No.	Label Pictorial	Description
1		<p>Base Control Console</p> <p>Push “” breaker back in to reset. Select and hold “” to enable error blink code for engine control unit (ECU). Read “” operating manual.</p> <p>Push and hold “” to start engine, “” to enable the emergency power unit or “” to enable base control functions.</p> <p>Select “” to rotate platform to the left or “” to rotate to the right.</p> <p>Select “” to tilt platform up or “” to tilt platform down.</p> <p>Select “” to move jib up or “” to move jib down.</p> <p>Select “” to rotate turret to the left or “” to rotate to the right.</p> <p>Select “” to raise main boom or “” to lower main boom.</p> <p>Select “” to extend fly boom or “” to retract fly boom.</p> <p>Select “” to turn engine off, “” to enable base control console or “” to enable platform control console.</p> <p>Push “” emergency stop to stop engine and disable controls.</p>

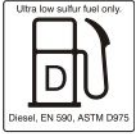





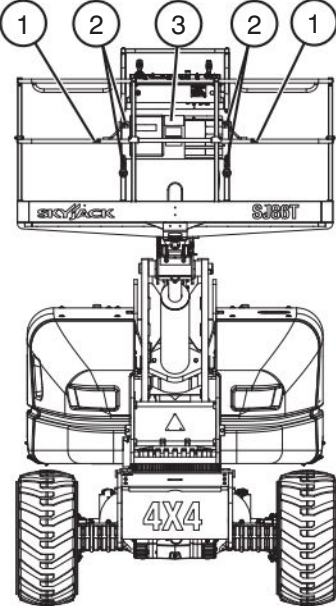


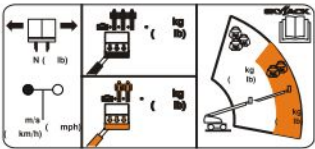
No.	Label Pictorial	Description
2		<p>Grease Points Maintenance</p> <p>Refer to service and maintenance manual  for lubricating aerial platform.</p>
3		<p>Hydraulic Oil</p> <p>Replace hydraulic fluid with Shell Tellus T48 or approved alternate (see Table 4.2b). (Note: Cold weather starting temperatures can be improved with Skyjack options. Please consult your nearest Skyjack service center.)</p>
4		<p>Hydraulic Oil Level</p> <p>Indicates minimum/maximum oil level.</p>



No.	Label Pictorial	Description
5		<p>Winching/Towing/Pushing Procedure Refer to Operating manual.</p> <ol style="list-style-type: none"> 1. Block or chock wheels to prevent aerial platform from rolling. 2. Turn main power disconnect switch to off position. 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 aerial platform 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). <p style="text-align: center;">NOTE</p> <p style="text-align: center;">Before operation, ensure all blocks are removed from wheels.</p>

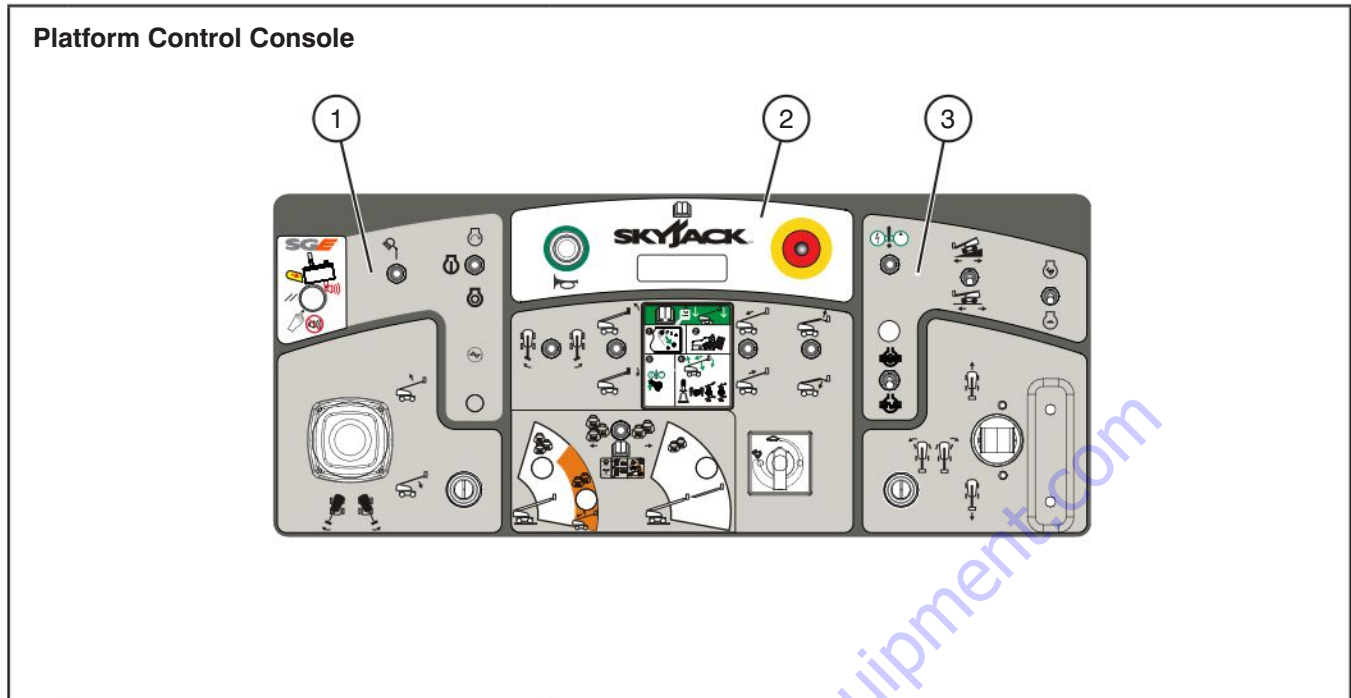














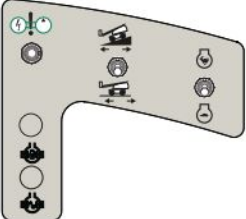








No.	Label Pictorial	Description
6		<p>Diesel Use ultra low sulfur fuel only.</p>
7		<p>No Smoking Do not smoke near this location.</p>
8		<p>Connect AC Supply Connect AC supply here.</p>
9		<p>Positive Air Shutoff (If Equipped) Use this switch to trigger the positive air shutoff valve.</p>

No.	Label Pictorial	Description
<p>Rear Side</p> 		
<p>1</p>		<p>Warning - No Step</p> <p>No step warning</p>
<p>2</p>		<p>Fall Protection Anchorage</p> <p>Attach body harness lanyards of each occupant to fall protection anchorage points. Rated for one (1) person per anchorage.</p>
<p>3</p>		<p>Platform Capacity*</p> <p>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. *Select either "high" or "low" platform capacity.</p> <p>Horizontal Load Rating</p> <p>Apply no more than the indicated side load. Operate below indicated wind speed only.</p>

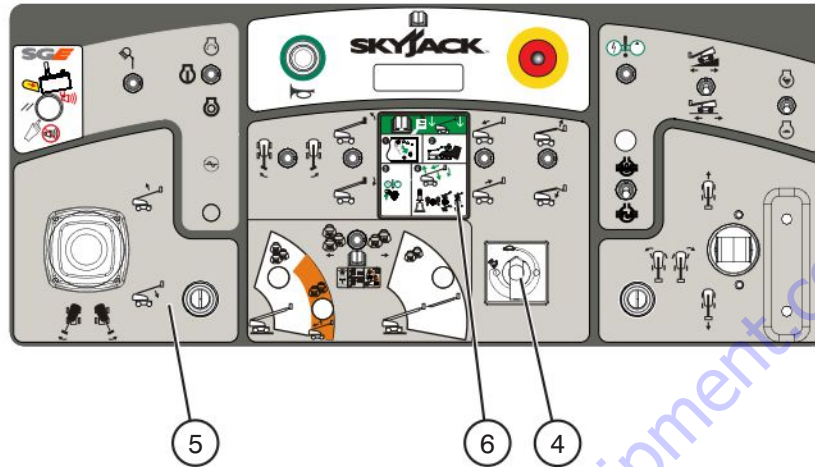
Rear Side (Continued)		
No.	Label Pictorial	Description
4		<p>Manual Box</p> <p>Indicates location of operating manual.</p>
5		<p>Hazard Identification</p> <p>Refer to Section 1: Safety Rules. Read and understand outlined risks associated with this work platform prior to operation.</p>
6		<p>Model Number*</p> <p>Product Identifier *Model number will vary, may not be as shown.</p>
7		<p>4x4 (If Equipped)</p> <p>Product Identifier - 4 wheel drive</p>


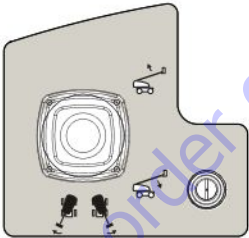








Rear Side (Continued)		
No.	Label Pictorial	Description
8		Warning - California Proposition 65 Cancer and Reproductive Harm- https://www.p65warnings.ca.gov/ .
9		AWPT "Click It!" Indicates full body harness awareness.
10		Skyjack Logo Skyjack
11		Body Crushing Hazard Danger - Body crushing hazard



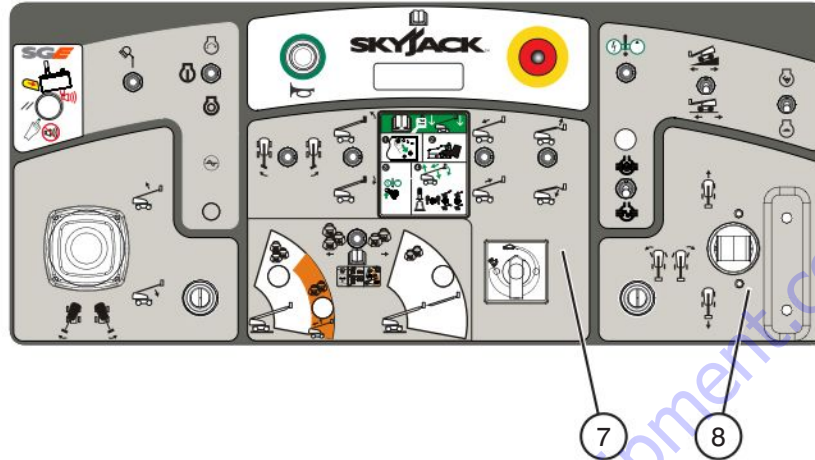
No.	Label Pictorial	Description
1		<p>SGE Reset (If Equipped)/Work Light (If Equipped)/Start Engine/Generator (If Equipped)</p> <p>Select  to reset SGE (if equipped). Select  to enable work light (if equipped). Push and hold  to start engine and then return to  on position or select  to turn engine off. Select  to turn hydraulic generator on or  to turn it off.</p>
2		<p>Emergency Stop/Horn</p> <p>Select  to sound horn. Read operating manual . Push  emergency stop to stop engine and disable controls.</p>
3		<p>Engine Controls/Emergency Power Unit</p> <p>Select  to enable emergency power unit. Select  low torque (higher speed) or  high torque (lower speed). Select  high torque when driving on a slope. Select either  high or  low engine throttle speed. Select  to engage differential lock or  to disengage differential lock.</p>

Platform Control Console (Continued)

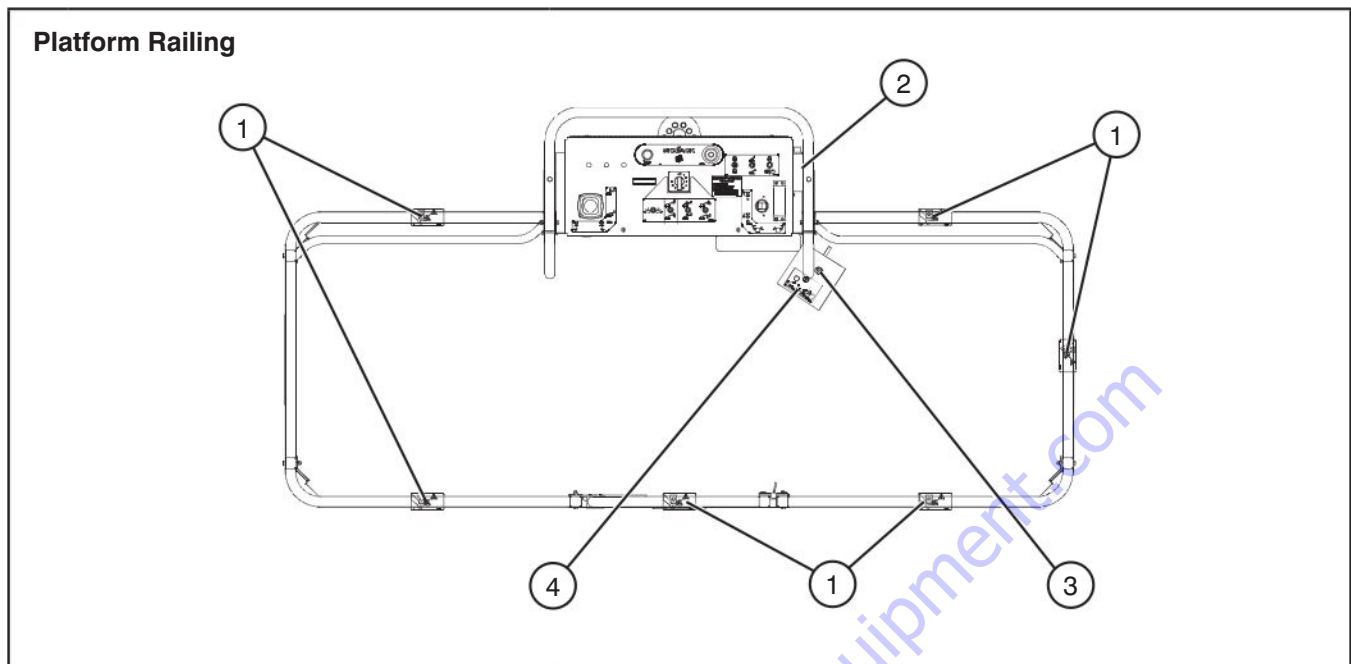



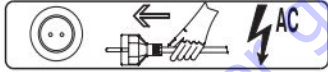

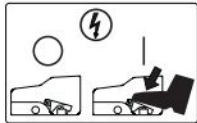
No.	Label Pictorial	Description
4		<p>Boom Speed Adjuster Dial</p> <p>Adjust dial to vary speed of fly boom extension/retraction, jib raising/lowering and platform rotation movements.</p>
5		<p>Boom/Turret Controller</p> <p>Push and hold controller in this direction “” to rotate turret to the left or “” to rotate turret to the right.</p> <p>Push and hold the controller in this direction “” to raise main boom or “” to lower main boom.</p>
6		<p>Emergency Lowering Procedure Refer to Operating manual.</p> <ol style="list-style-type: none"> 1. Pull out “” emergency stop button. 2. Depress and hold footswitch. 3. Turn “” emergency power switch to “” on position. 4. Activate desired boom function to lower platform.

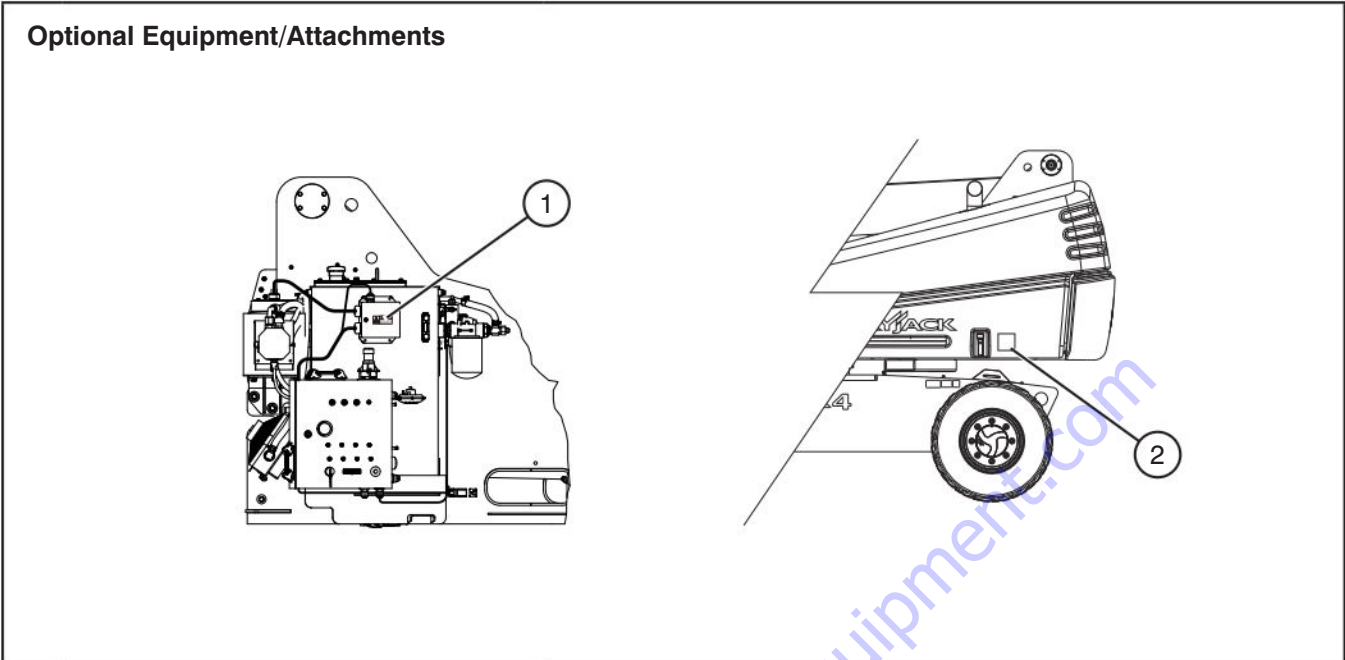
Platform Control Console (Continued)



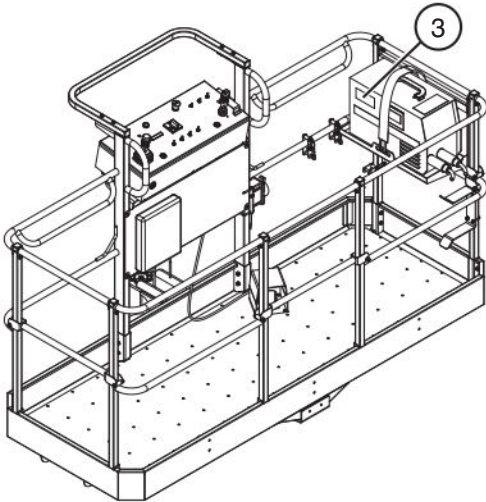
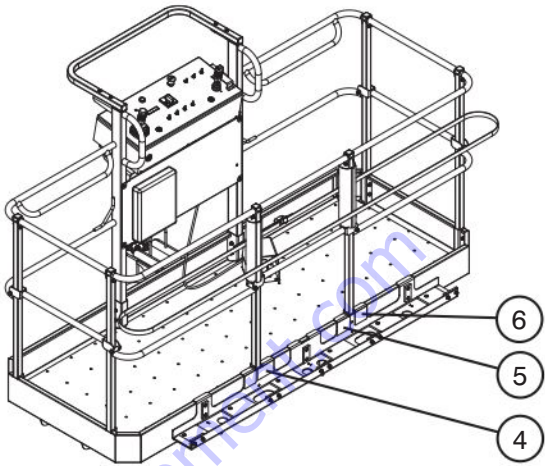
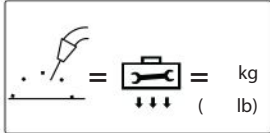
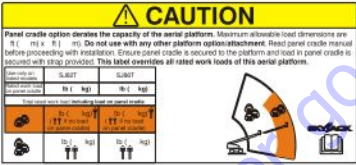
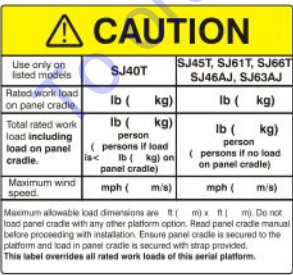
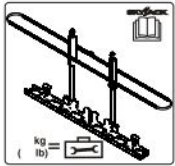
No.	Label Pictorial	Description
7		<p>Boom/Jib/Platform Controls</p> <p>Select “” to rotate platform to the left or “” to the right.</p> <p>Select “” to tilt platform up or “” to tilt platform down.</p> <p>Select “” to extend fly boom or “” to retract fly boom.</p> <p>Select “” to move jib up or “” to move jib down.</p>
8		<p>Drive/Steer Controller</p> <p>Push and hold controller in this direction “” to drive forward or “” to drive backward.</p> <p>Push and hold controller in this direction “” to steer left or “” to steer right.</p>



No.	Label Pictorial	Description
1		<p>Crushing Hazard</p> <p>Danger - Crushing hazard</p>
2		<p>Connect AC Supply</p> <p>Connect AC supply here.</p>
3		<p>Warning - Do Not Alter</p> <p>Do not alter or disable limit switches or other safety devices.</p>
4		<p>Footswitch Enable (On/Off)</p> <p>Depress and hold footswitch to enable platform function.</p>



No.	Label Pictorial	Description
1		<p>Warning - Hazardous Voltage</p> <p>Electric shock warning.</p>
2		<p>Catalytic Muffler Lower Emissions</p> <p>Indicates lower emissions.</p>

Optional Equipment/Attachments		
No.	Label Pictorial	Description
		
		
3		<p>Welder Weight Indicates rated weight of welder.</p>
4		<p>Panel Cradle Capacity - Dual Load (Glazier Kit) Refer to Operating manual. Panel cradle option derates the capacity of the aerial platform. Do not use with any other platform option/attachment. This label overrides all rated work loads of this aerial platform.</p>
5		<p>Panel Cradle Capacity (Glazier Kit) Indicates rated capacity of panel cradle.</p>
6		<p>Panel Option Weight (Glazier Kit) Refer to Operating manual. Indicates rated weight of panel cradle.</p>



WARNING

Cancer and Reproductive Harm-
<https://www.p65warnings.ca.gov/>.

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