

OPERATING MANUAL (ANSI/CSA)

ROUGH TERRAIN SCISSORS

MODELS SJ8831 RT SJ8841 RT SJ9250 RT

171006AIA November 2, 2022

SKYJACK™

This manual is based on Serial Numbers:

SJRT 8831 36 000 302 & Above
SJRT 8841 40 001 481 & Above
SJRT 9250 50 001 321 & Above (Including 50 001 302 - 50 001 307)

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

Skyjack Service Center
3451 Swenson Ave. St. Charles,
Illinois, 60174 USA
Phone: 630-262-0005
Toll Free: 1-800-275-9522
Fax: 630-262-0006
Email: service@skyjack.com

Parts (North America)
Toll Free: 1-800-965-4626
Toll Free Fax: 1-888-782-4825
E-mail: parts@skyjack.com

Skyjack Australia Pty Ltd.
Unit 1, 35 Honeycomb Drive
Eastern Creek
New South Wales 2766
Australia
Tel: +61 (0) 2 9854 0700
Fax: +61 (0) 2 9854 0777

Parts & Service (Europe)
Unit 1 Maes Y Clawdd
Maesbury Road Industrial Estate
Oswestry, Shropshire SY10 8NN UK
Phone: +44-1691-676-235
Fax: +44-1691-676-238
E-mail: info@skyjackeurope.co.uk

Skyjack Brasil
Alameda Júpiter, 710
Loteamento American Park Empresarial
Indaiatuba, SP, Brasil 13347-653
Tel: +55 19 3936 0132

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.

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

Aerial Platform and Mobile Elevating Work Platform Definition
A mobile device that has a positionable platform supported from ground level by a structure.

Purpose of Equipment
The SKYJACK Rough Terrain's mid and full size aerial platforms are 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 SJRT Series aerial platform to be free of defective parts and workmanship for the first 24 months. Any defective part will be replaced or repaired by your local SKYJACK dealer at no charge for parts or labor. Contact the SKYJACK Service Department for warranty statement extensions or exclusions.

Optional Accessories
The SKYJACK 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, CSA version of the Full Size Rough Terrain aerial platform models listed on Table 4.1.
   - **Equipment identified** with "ANSI" meets the ANSI SIA-A92.6-2006 standard.
   - **Equipment identified** with "CSA" meets the CSA B354.2-01 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 A92.6 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.

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 A92.6-2006 8.10(7)

"The operator shall perform only that 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.

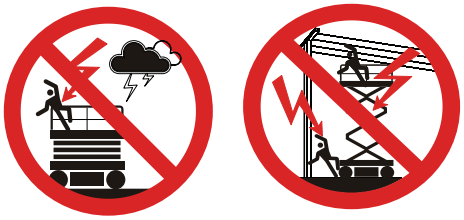
As per CSA B354.2-01

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

As per AS 2550.1-2002

Elevating Work Platforms must remain 6.4 m from electrical distribution lines up to 133 kV and 8 m from transmission lines greater than 133 kV. State regulations may take precedence over these approach distances.

DO NOT USE THE AERIAL PLATFORM AS A GROUND FOR WELDING.
DO NOT OPERATE THE AERIAL PLATFORM DURING LIGHTNING OR STORMS.
DO NOT OPERATE THE AERIAL PLATFORM NEAR POWER LINES. MAINTAIN A MININUM 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 "◯" 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 lift.



- AVOID entanglement with ropes, cords or hoses.



- AVOID falling. Stay within the boundaries of the guardrails.



- DO NOT raise the MEWP or operate elevated in windy or gusty conditions that exceed the limits specified in Section 4, Table 4.4.



- 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 drive elevated on a soft or uneven surface.



- 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 or surfaces that may affect the stability of the aerial platform.



- 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 elevate or drive elevated on a slope. Elevated driving must be done on a firm, level surface.
- DO NOT ascend or descend a grade when elevated. When fully-lowered, ascend or descend grades up to maximum rated inclines listed in Table 4.3.



Safety Precautions (Continued)

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

- DO NOT operate on surfaces not capable of holding the weight of the aerial platform including the rated load, e.g. covers, drains, and trenches.
- 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.



- DO NOT exert side forces on aerial platform while elevated.



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



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



- DO NOT climb on scissor arm assembly. It is prohibited.



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



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



- DO NOT raise the aerial platform while the aerial platform is on a truck, fork lift or other device or vehicle.



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



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



- BE AWARE of blind spots when operating the aerial platform.
- DO NOT use with improperly inflated/damaged tires or wheels. Refer to Section 2: Wheel/Tire Assembly.



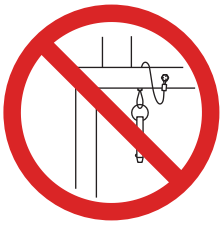
- ENSURE ALL tires are in good condition and lug nuts are properly tightened.
- DO NOT alter or disable limit switches or other safety devices.



Safety Precautions (Continued)

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

- DO NOT use the aerial platform without guardrails, locking pins and the entry gate(s) in place.



- DO NOT use under influence of alcohol or drugs.



- STUNT driving and horseplay are prohibited.
- DO NOT exceed the rated capacity of the aerial platform.



- DO NOT distribute load unevenly.



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



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



- DO NOT attempt to free a snagged platform with lower controls until personnel are removed from the platform.
- DO NOT position the aerial platform against another object to steady the platform.
- DO NOT place materials on the guardrails or materials that exceed the confines of the guardrails unless approved by Skyjack.

Safety Precautions (Continued)

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

Fall Protection

As per the ANSI A92.6-2006 standard, "The guardrail system of the aerial platform provides fall protection. If occupant(s) of the platform are required to wear personal fall protection equipment (PFPE), occupants shall comply with instructions provided by the aerial platform manufacturer (remanufacturer) regarding anchorage(s)."

If additional fall protection is required, by an employer or the authority having jurisdiction, Skyjack recommends the use of a fall restraint system to keep an occupant within the confines of the platform, and thus not expose the occupant to any fall hazard requiring a fall arrest.

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

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

WARNING

Entering and exiting the 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 blocked out for non-use or repair.**

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

Jobsite Inspection

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

Notes

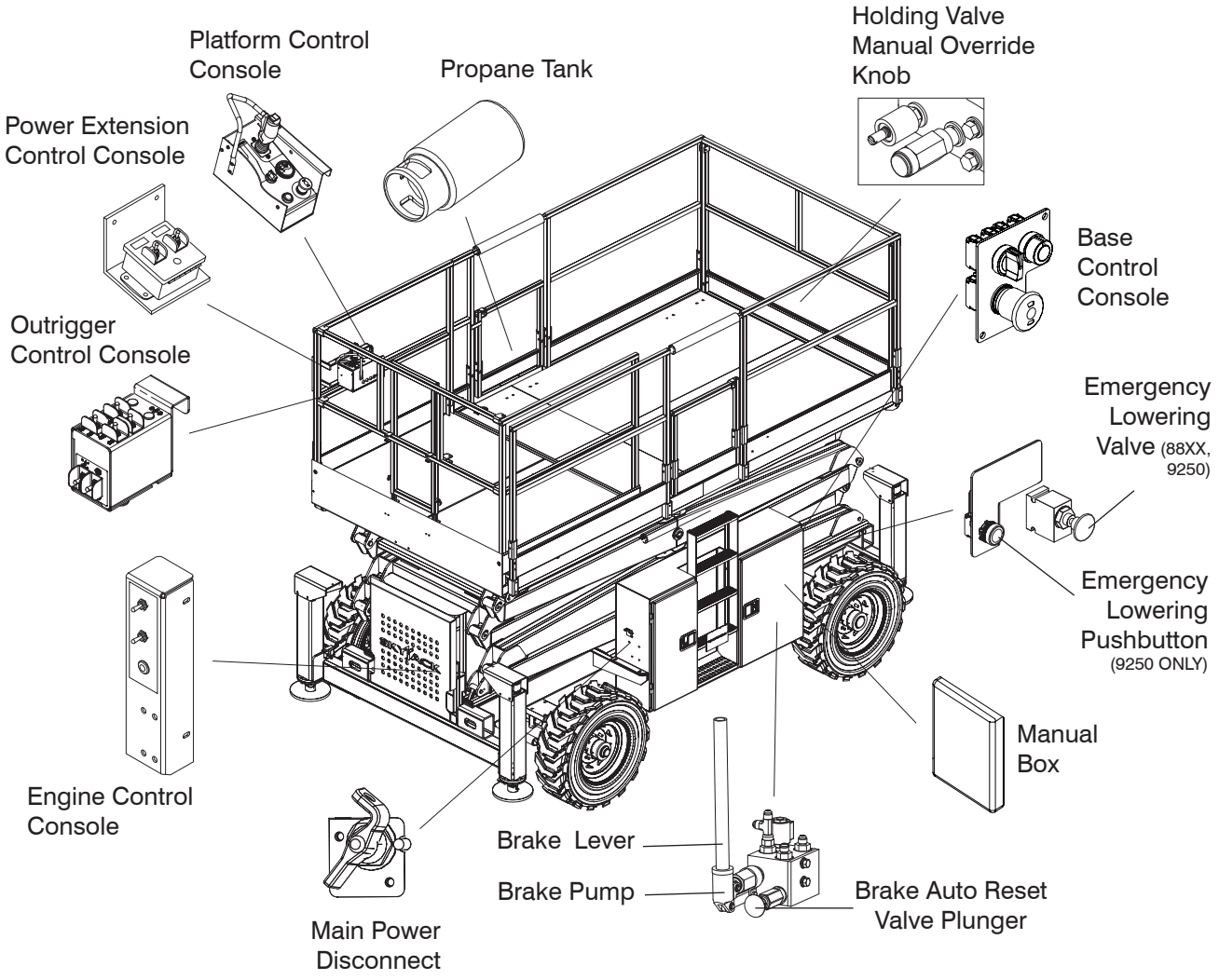
2.1 Familiarization of SJRT Full Size Series

WARNING

Aerial Platform Familiarization should be given only to individuals who are QUALIFIED 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.



2.2 Component Identification

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

2.2-1 Main Power Disconnect Switch

This switch is located at the side of the hydraulic/electrical compartment.

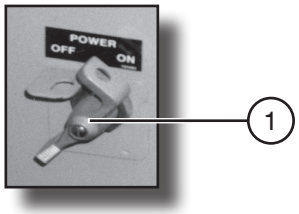


Figure 2-1. Main Power Disconnect Switch

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 Motion Alarm

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

2.2-3 Tilt Alarm

The aerial platform is equipped with a device which senses when the aerial platform is out of level in any direction. When activated, it disables drive and lift functions of the aerial platform and an alarm produces an audible sound accompanied by the amber light. If the alarm sounds, lower the platform completely, then reposition aerial platform so that it is level before raising the platform.

NOTE

If the tilt alarm sounds and the platform does not, or only partially raises, immediately lower the platform completely and ensure that the aerial platform is on a firm level surface.

2.2-4 Base Control Console

This control console is located at the rear of the hydraulic/electrical compartment. It contains the following controls:

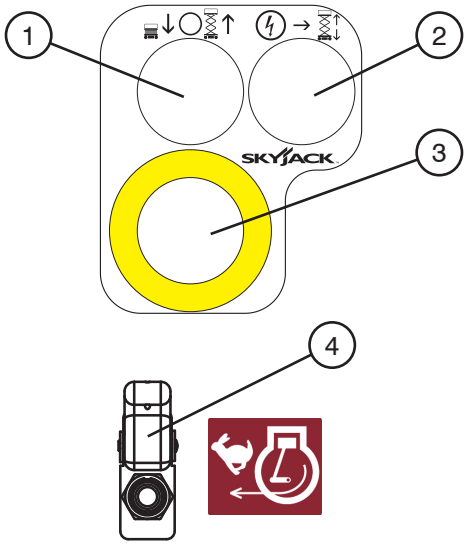


Figure 2-2. Base Control Console

1. **Lower/Neutral/Raise Switch** - This switch controls "↑" raising or "↓" lowering of platform.

2. **Enable Switch** - When selected and held, this "ϟ → ↕" switch allows the lift functions to operate.

3. **Emergency Stop Button** - This button "●", when depressed, disconnects power to the control circuit.

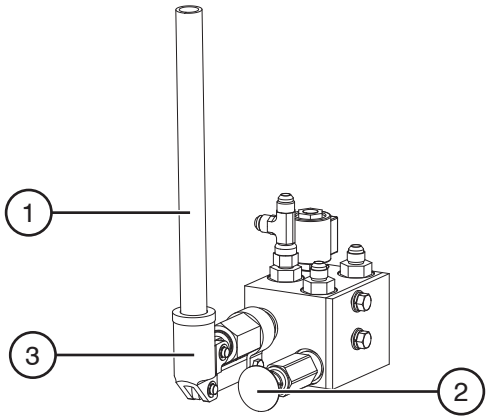
4. **Positive Air Shutoff Switch (If Equipped)** - This switch allows the operator to shut off the air supply to the engine if the engine continues running after the main power is shut down.

FAMILIARIZATION

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.

2.2-5 Brake System

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



Disc Brake

Figure 2-3. Brake System

1. Brake Lever
2. Brake Auto Reset Valve Plunger
3. Brake Pump

2.2-6 Propane Cylinder (If Equipped)

The propane cylinder is located on the base of the aerial platform. It has the following control:

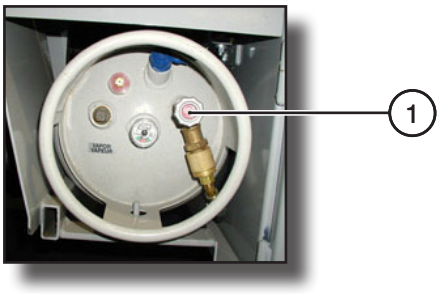


Figure 2-4. Propane Cylinder

1. **Cylinder Main Valve** - Turn this valve clockwise to shut off the fuel supply; counterclockwise to open it.

2.2-7 Emergency Lowering System

This emergency lowering system allows platform lowering in the event of an emergency or an electrical system failure. Refer to Section 2.6 for the emergency lowering procedures. The system contains the following controls:

Model 88xx

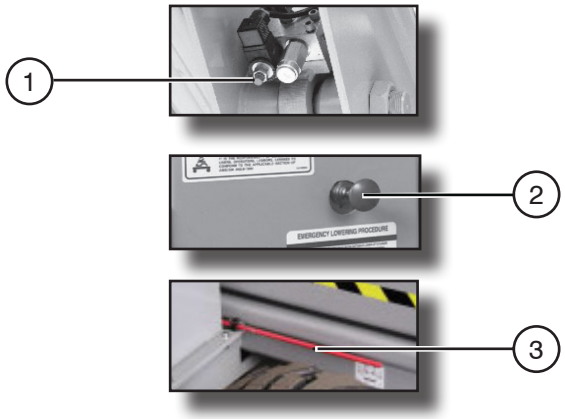


Figure 2-5. Emergency Lowering System

1. **Holding Valve Manual Override Knob** - Located on the holding valve at the bottom of each lift cylinder.

2. **Emergency Lowering Valve** - Located at the rear of the hydraulic/electrical compartment.

3. **Emergency Lowering Access Rod** - Located at the side of the base.

Model 9250

This emergency lowering system is located on the hydraulic tank and is accessed through a hole in the hydraulic/electrical compartment door.

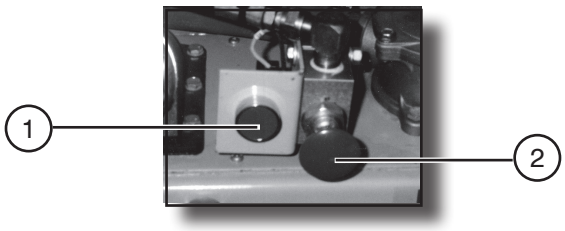


Figure 2-6. Emergency Lowering System

1. Emergency Lowering Pushbutton
2. Emergency Lowering Valve

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.

2.2-8 Engine Control Console

This control console is attached to the engine tray. It contains the following controls:

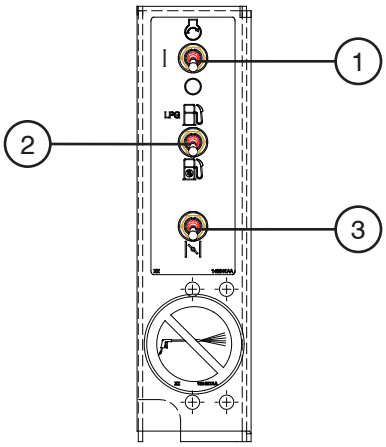


Figure 2-7. Engine Control Console - Dual Fuel

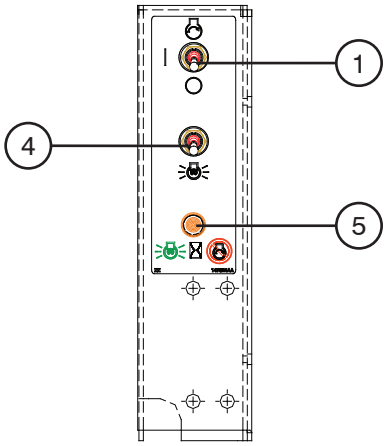


Figure 2-8. Engine Control Console - Diesel Engine

1. **Engine Off/On/Start Switch** - This is a three-position switch. When in "|" on position, it energizes engine circuit. When in "" start position, it starts the engine (switch will return to on position when released). When in "◯" off position, it turns engine off.

2. **Fuel Select Switch** - Used to switch between "" liquid propane gas and "" gasoline.

3. **Engine Choke Switch** - This "" momentary toggle switch sets the choke for starting a cold gasoline/propane engine. The choke remains fully engaged only while the switch is selected. Choke returns to normal position as soon as switch is released.

4. **Glow Plug Switch** - This "" momentary toggle switch energizes the glow plugs to aid in starting a cold diesel engine. Glow plugs are only active while switch is activated.

5. **Glow Plug Indicator Light** - This red lamp illuminates until the glow plugs have completed the timed heating cycle. When the lamp goes out, the engine is ready to be started.

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.

2.2-9 Platform Control Console

This removable control console is mounted at the right front of the platform. It contains the following controls:

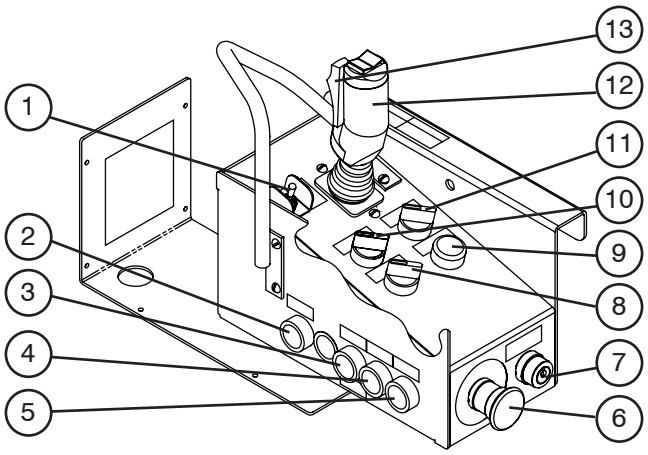


Figure 2-9. Platform Control Console

1. **Torque Switch** - This switch, when in "" high torque position, cuts out high range and 3rd speed to provide maximum torque when climbing grades and on rough terrain. When in "" low torque position, all three speeds are available.

2. **Horn Pushbutton** - This "" pushbutton sounds an automotive-type horn.

3. **Engine Choke Pushbutton (Dual Fuel)** - This pushbutton switch sets the choke for starting a cold gasoline/propane engine.

   Glow Plug Pushbutton (Diesel) - This pushbutton energizes the "" glow plugs to aid in starting a cold diesel engine.

4. **Engine Start Pushbutton** - This "" pushbutton energizes the engine starter motor.

   NOTE

   The engine start pushbutton is interlocked with the oil pressure switch. If engine stalls or does not start immediately, this button will not work for a few seconds while oil pressure bleeds off.

5. **Lift Enable Pushbutton** - When depressed and held, this "" pushbutton allows the lift functions to operate.

6. **Emergency Stop Button** - This button "", when depressed, disconnects power to control circuit and shuts engine off. The red colored light indicates upper control availability. When the light is continuously illuminated, upper controls are available.

7. **Off/Lift/Drive Key Switch** - Selecting "" off position disconnects power from both lift and drive circuits. Selecting "" lift position energizes the lift circuit. Selecting "" drive position energizes the drive circuit.

8. **Raise/Off/Lower Switch** - This switch controls raising or lowering of the platform.

9. **Operation Light** - The red colored light indicates upper control availability. When the light is continuously illuminated, upper controls are available.

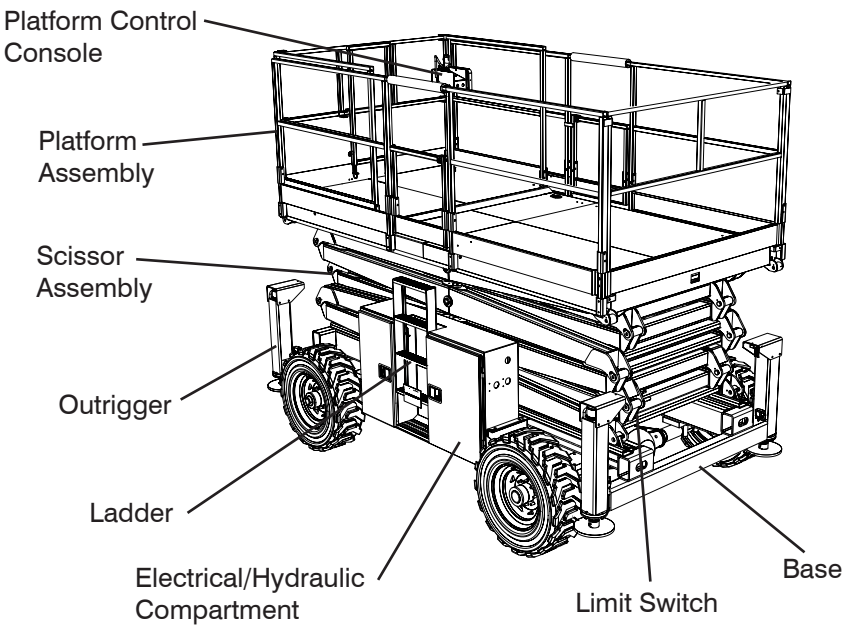
10. **Low/High Speed Range Switch** - This switch selects "" low speed range (high torque) or "" high speed range (low torque).

11. **Low/High Throttle Switch** - This rotary switch allows selection between "" low and "" high engine throttle speeds.

12. **Drive/Steer Controller** - This one-hand lever controls drive speed and steer motion. Internal springs return it to neutral when controller is released. The rocker switch on top of controller handle controls steering function.

13. **Drive/Steer Enable Trigger Switch** - This momentary "" switch energizes the controller. It must be held depressed continuously while engaging either drive or steer functions.

Typical Model 88xx shown



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:

- base to platform cables and wiring harness
- engine compartment electrical panel
- engine wiring harness
- hydraulic/electrical wiring harnesses

2.3-3 Limit Switches

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

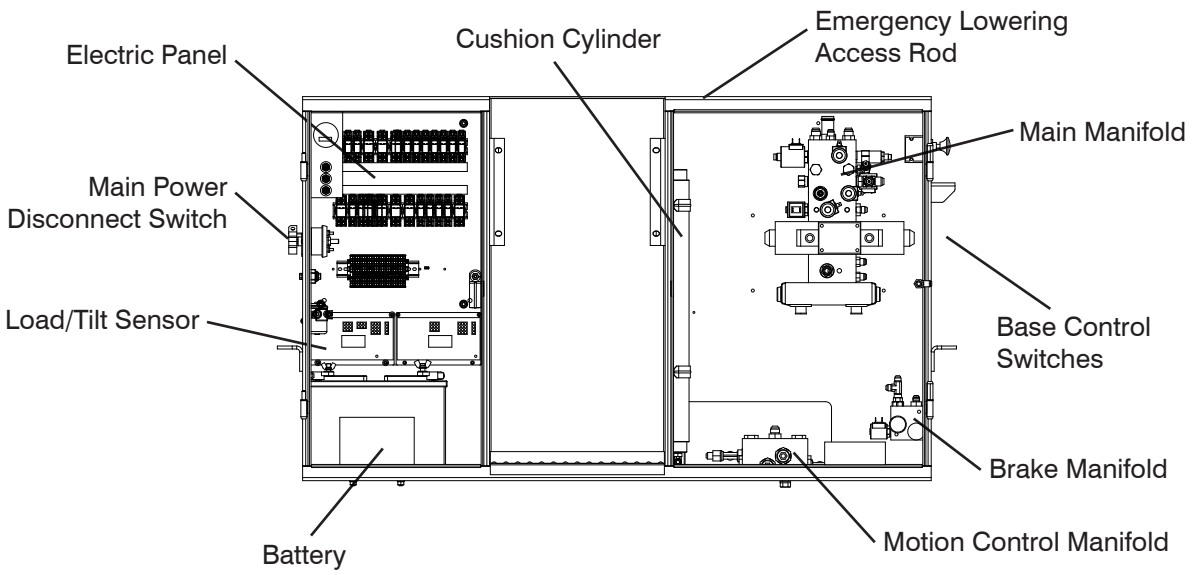
2.3-4 Hydraulic

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 (if equipped) and base surfaces
- engine compartment fittings, hoses, main pump, and filter
- all hydraulic cylinders
- all hydraulic manifolds
- the underside of the base
- ground area under the aerial platform
- outriggers

Typical Model 88xx shown



2.3-5 Emergency Lowering Access Rod (All models except 9250)

- Ensure rod is properly secured and there is no visible damage.

2.3-6 Hydraulic/Electrical Compartment

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

- **Main Power Disconnect Switch**
  - Turn main power disconnect switch to " ◯ " off position.
  - Ensure all cables are secure and switch is in proper working condition.

- **Base Control Switches**
  - Ensure there are no signs of visible damage and all switches are in their neutral positions.

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

WARNING

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



WARNING

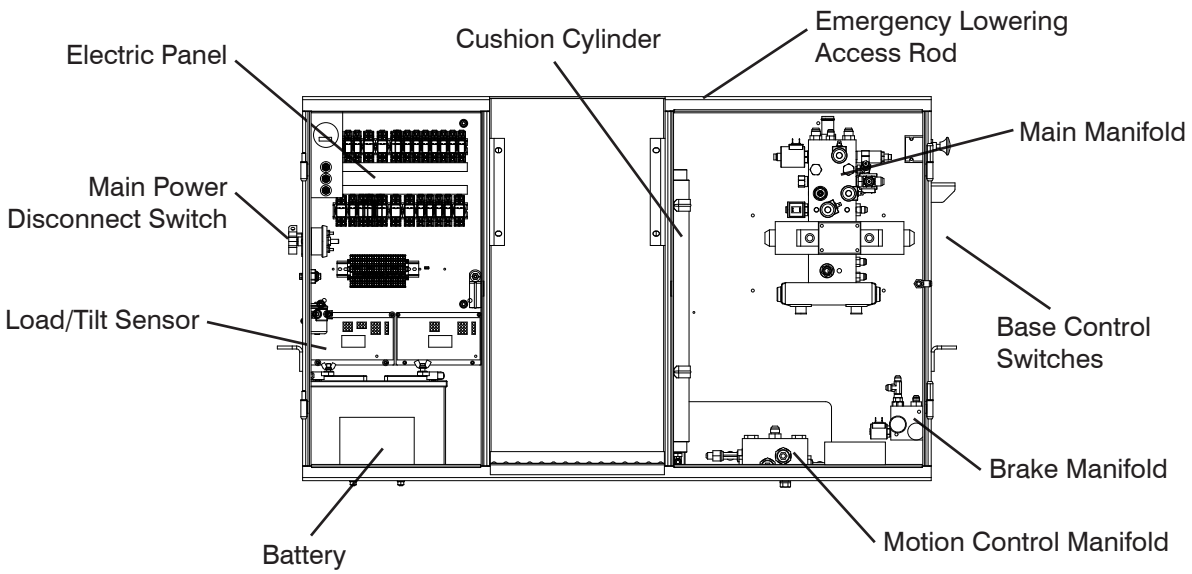
Battery acid is extremely corrosive - Wear proper eye and facial protection as well as appropriate protective clothing. If contact occurs, immediately flush with cold water and seek medical attention.

1. Check battery 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.

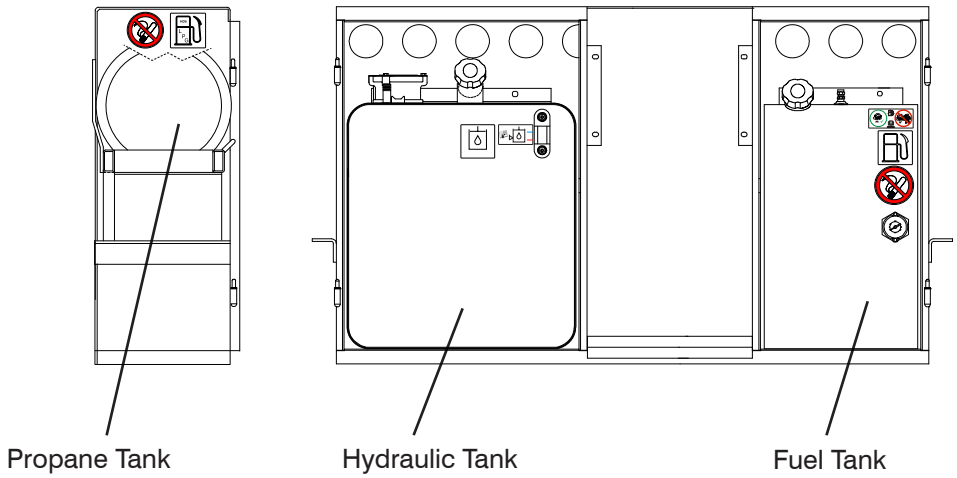
Typical Model 88xx shown



- **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.
  - Electrical Panel
  - Ensure panel is properly secured and there is no visible damage.
  - Ensure there are no loose wires or missing fasteners.
- **Tilt Sensor**
  - Ensure tilt sensor is properly secured and there is no visible damage.
- **Hydraulic Tank (Model 9250)**
  - Ensure hydraulic filler cap is secure.
  - Ensure tank shows no visible damage and no evidence of hydraulic leakage.
- **Hydraulic Oil**
  - Ensure platform is fully lowered, and outriggers retracted, and then visually inspect the sight gauge located on the side of the hydraulic oil tank. Check oil level against label that indicates minimum and maximum oil levels (Model 9250).
  - The hydraulic oil level should be at or slightly above the top mark of the sight glass (Model 88xx).

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.

Typical Model 88xx shown



2.3-7 Hydraulic/Fuel Compartment

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

- **Hydraulic Tank (Model 88xx)**
  - Ensure hydraulic filler cap is secure.
  - Ensure tank shows no visible damage and no evidence of hydraulic leakage.
- **Hydraulic Oil (Model 88xx)**
  - Ensure platform is fully lowered, and then visually inspect the sight gauge located on the side of the hydraulic oil tank.
  - The hydraulic oil level should be at or slightly above the top mark of the sight glass.
- **Fuel Tank**

IMPORTANT

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

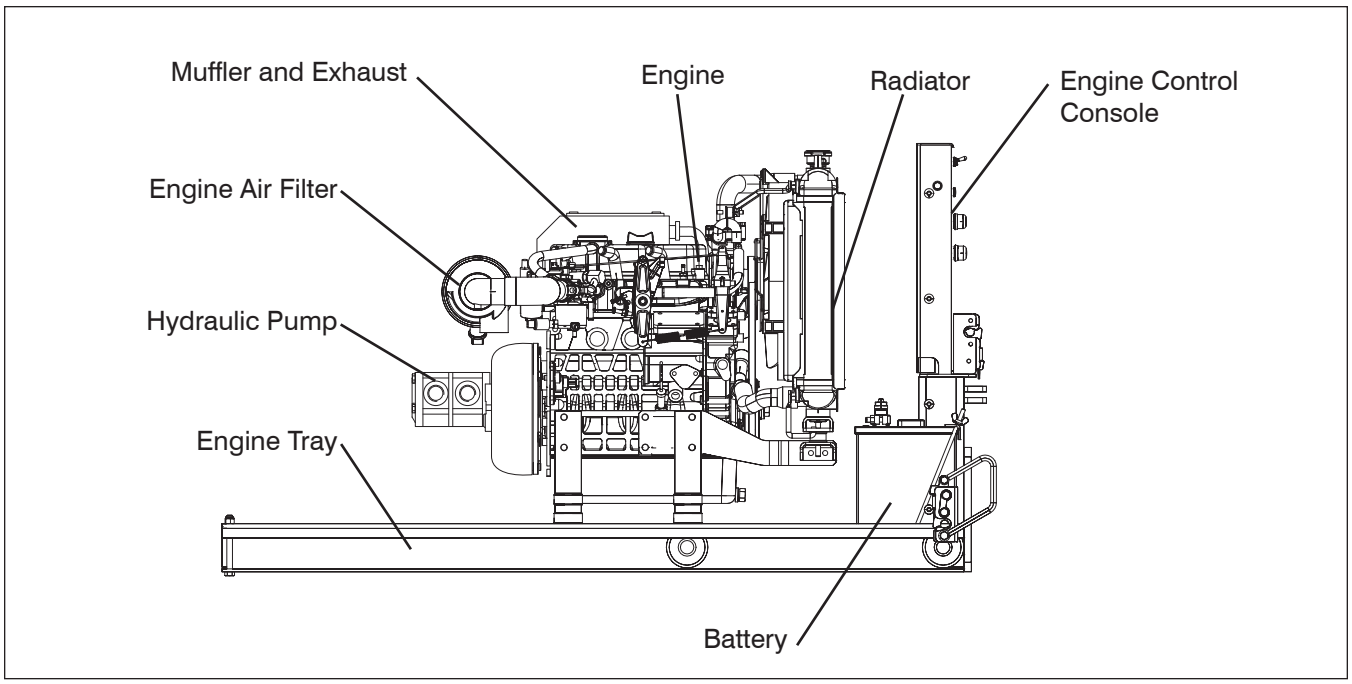
  - Ensure fuel filler cap is secure.
  - Ensure tank shows no visible damage and no evidence of fuel leakage.
- **Fuel Leaks**
  - Ensure that there no fuel leaks.

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.

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.



2.3-8 Engine Compartment

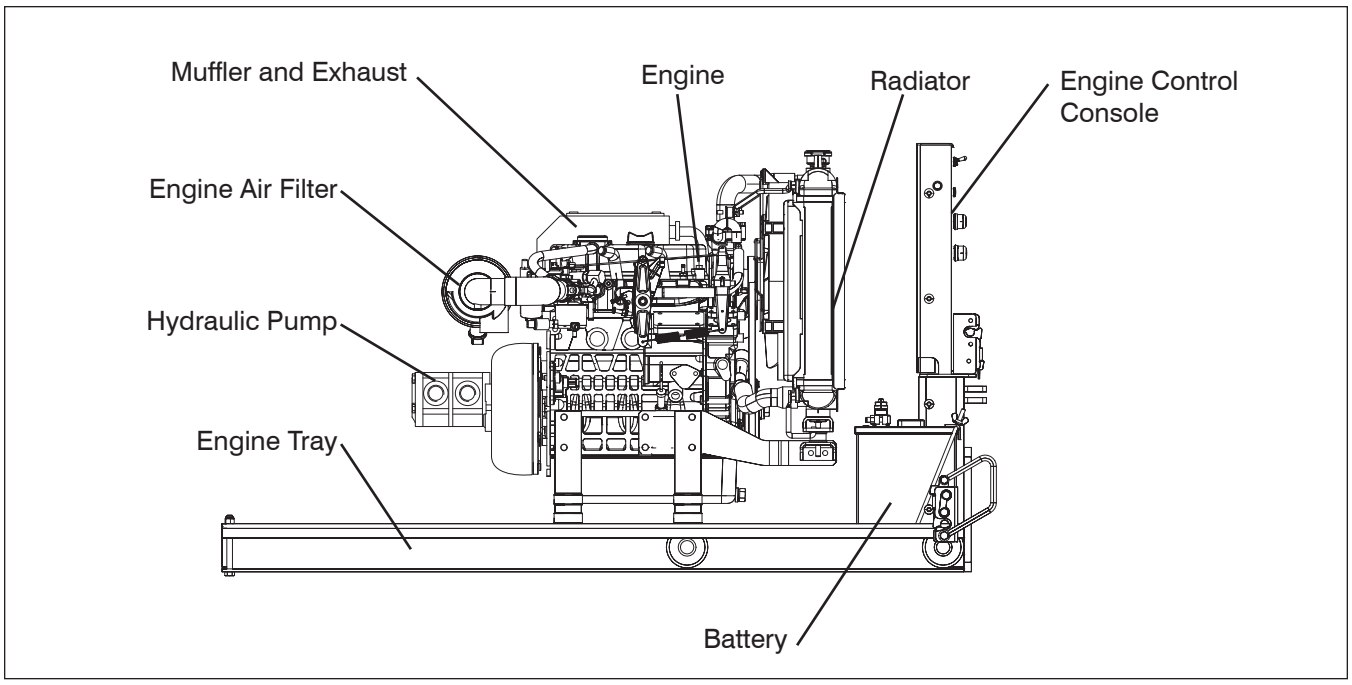
WARNING

Beware of hot engine components.

1. Pull on the two latches to pull out engine compartment.

- **Engine Control Console**
  - Ensure muffler and exhaust system are properly secured, with no evidence of damage.
- **Radiator**
  - Ensure radiator is secure.
  - Ensure there are no loose or missing parts and there is no visible damage.
  - Check coolant level and add as needed.
- **Muffler and Exhaust**
  - Ensure muffler and exhaust system are properly secured, with no evidence of damage.
- **Engine Tray**
  - Ensure there are no loose or missing parts and no visible damage to the engine tray. Ensure that both tray-securing bolts are in place.

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.



- **Hydraulic Pump**
  - 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.
- **Engine Oil Level**
  - Maintaining the engine components is essential to good performance and service life of the aerial platform.
  - Check oil level on dipstick
  - Oil level should be between the “L” and “H” marks. Add oil as needed.
- **Engine Air Filter**
  - Ensure there are no loose or missing parts and there is no visible damage.
- **Fuel Leaks**
  - Ensure there are no fuel leaks.

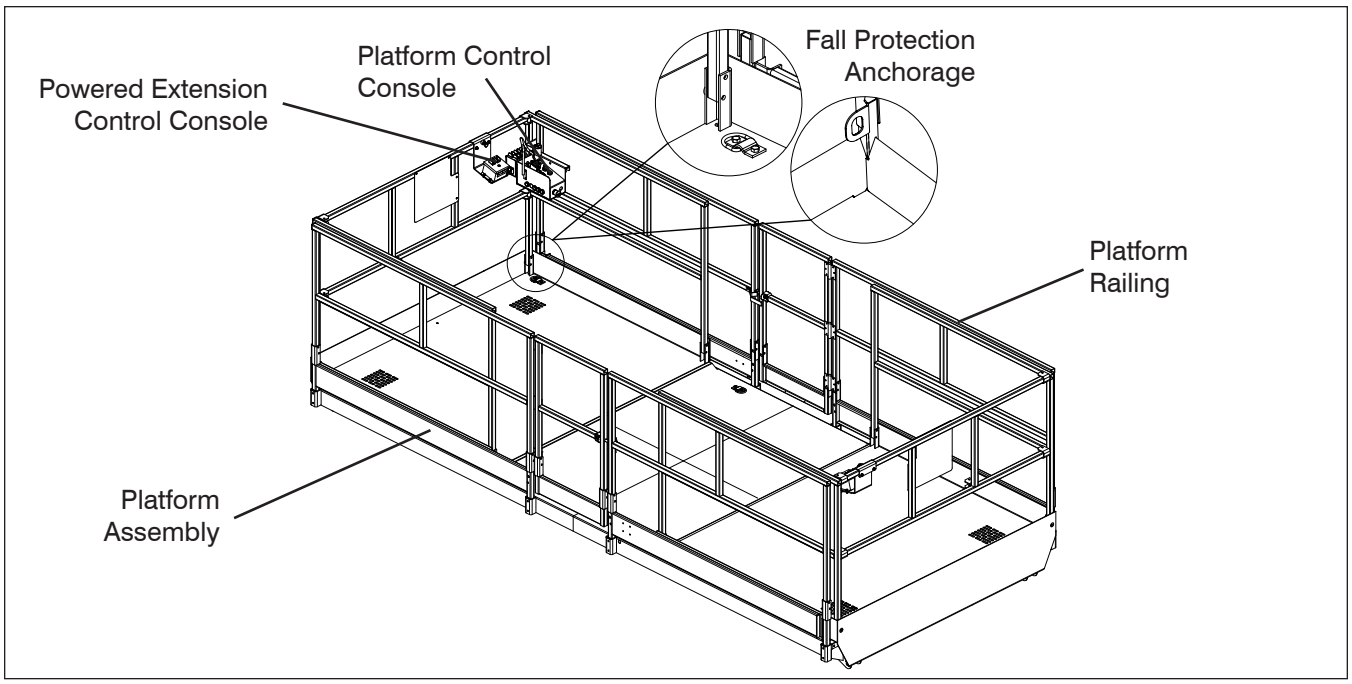
DANGER

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 pump, fuel filter, hoses and fittings show no visible damage and no evidence of fuel leakage.

2. Push in engine compartment until the two latches lock to base.

FAMILIARIZATION



2.3-9 Platform Assembly

WARNING

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

1. Use the ladder of aerial platform to access platform.
2. Close the gate.
   - Ensure there are no loose or missing parts and there is no visible damage.
   - Ensure all fasteners are securely in place.
   - Ensure all railings are properly positioned and secured.
   - Ensure gate is in good working order.

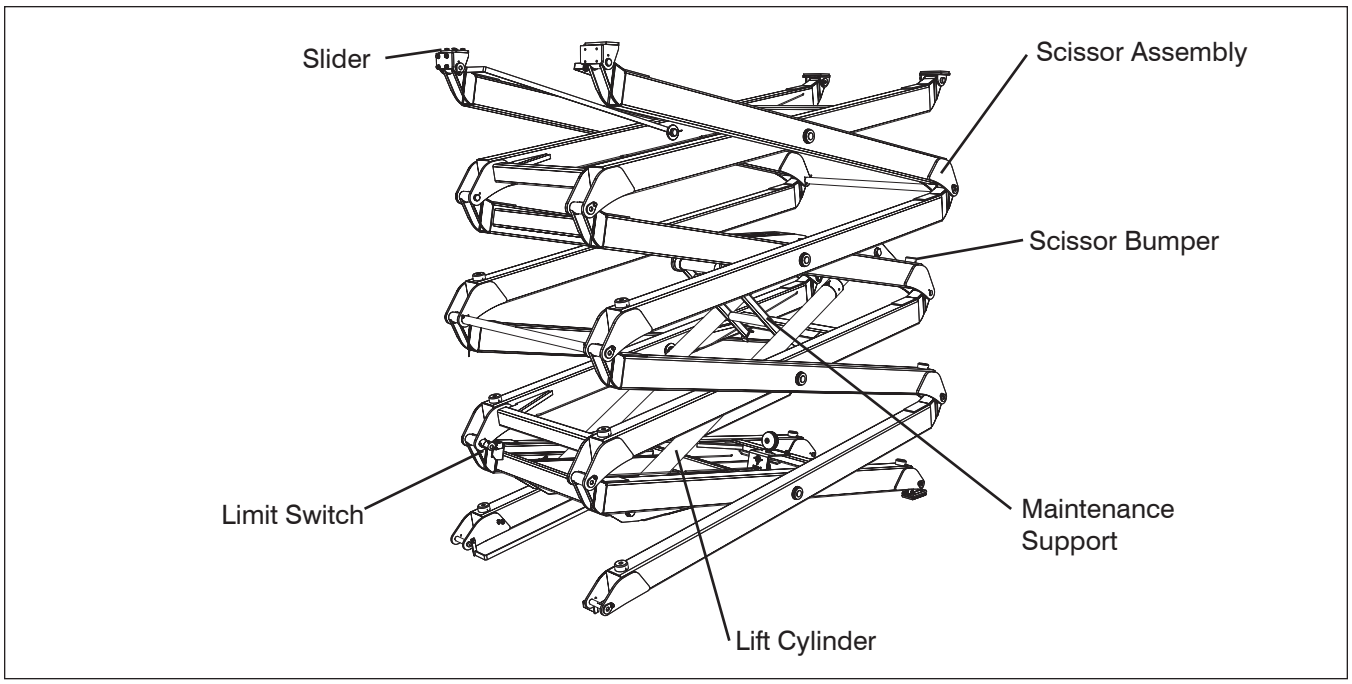
- **Fall Protection Anchorage(s)**
  - Ensure anchorage(s) are secure and there is no visible damage.
- **AC Outlet on Platform**
  - Ensure outlet has no visible damage and free from dirt or obstructions.
- **Platform Control Console**
  - Ensure all switches and controller are returned to neutral and are properly secured.
  - Ensure there are no loose or missing parts and there is no visible damage.
- **Powered Extension Control Console**
  - Ensure all switches are returned to neutral and are properly secured.
  - Ensure there are no loose or missing parts and there is no visible damage.

WARNING

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

3. Use the ladder to dismount from platform.

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.



2.3-10 Lifting Mechanism

- **Sliders**
  - Ensure sliders are secure and there is no visible damage.
  - Ensure sliders' path of travel are free from dirt and obstructions.

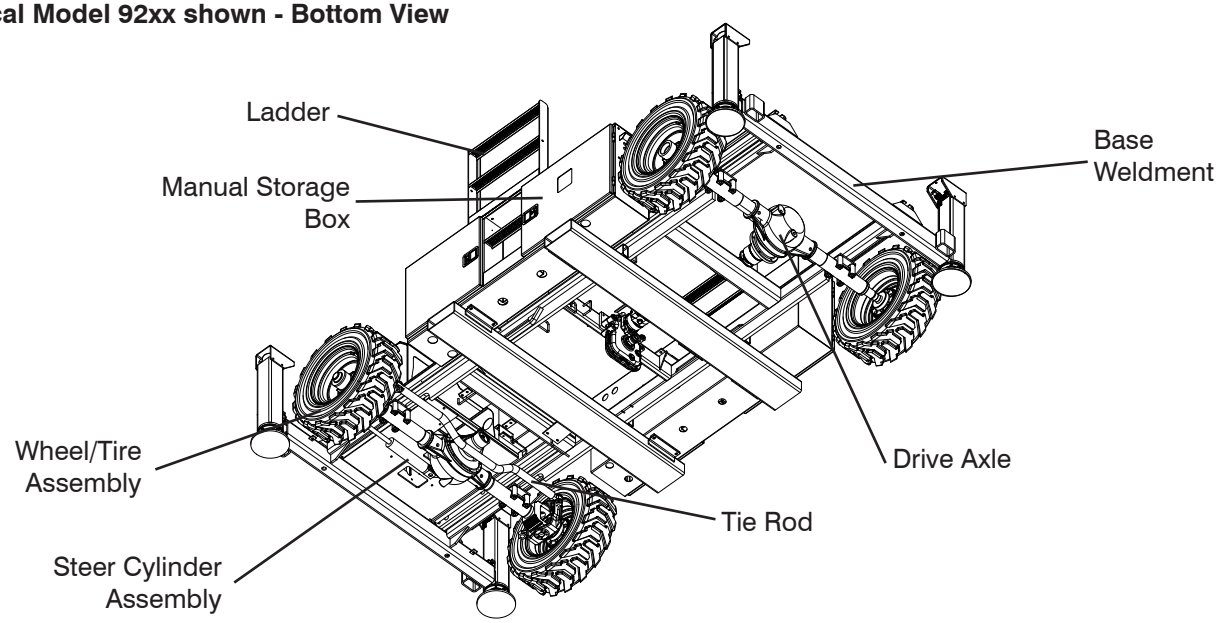
1. Raise the platform (refer to Section 3.8-2) until there is adequate clearance to swing down the maintenance support (refer to Section 3.12).

- **Maintenance Support**
  - Ensure maintenance support is properly secured and shows no visible damage.
- **Scissor Assembly**
  - Ensure scissor assembly shows no visible damage and no signs of deformation in weldments.
  - Make sure all the pins and fasteners are correctly installed, including the connections to the base and platform.
  - Ensure cables and wires are properly routed and shows no signs of wear and/or physical damage.
- **Scissor Bumpers**
  - Ensure bumpers are secure and shows no sign of visible damage.
- **Lift Cylinder(s)**
  - Ensure each lift cylinder is properly secured, there are no loose or missing parts and there is no evidence of damage.
  - Ensure all fittings and hoses are properly tightened and there is no evidence of hydraulic leakage.

2. Raise the platform until there is adequate clearance to swing up the maintenance support into storage bracket. Refer to Section 3.12.

3. Fully lower the platform.

Typical Model 92xx shown - Bottom View



2.3-11 Base

- **Base Weldment**
  - Ensure there are no visible cracks in welds or structure and there are no signs of deformation.
- **Wheel/Tire Assembly**
  The aerial platform is either equipped with air tires or foam-filled tires. Tire and/or wheel failure could result in an aerial platform tipover. Component damage may also result if problems are not discovered and repaired in a timely fashion.

WARNING

Air filled tires are not permitted on some models. Refer to Table 4.7.

WARNING

An over-inflated tire can explode and may cause death or serious injury.

  - 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.

To maximize stability, it is essential to maintain proper pressure in all air-filled tires.

  - Check each tire with an air pressure gauge and add air as needed.

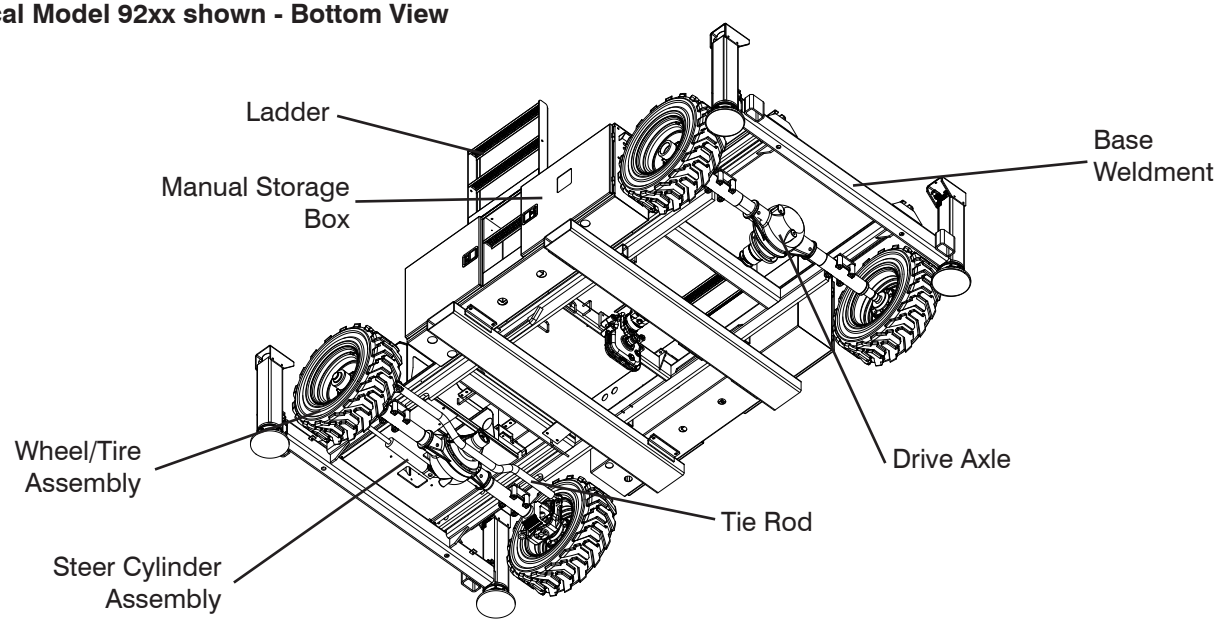
Refer to Table 4.7 for wheel/tire specifications.

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.

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

Typical Model 92xx shown - Bottom View



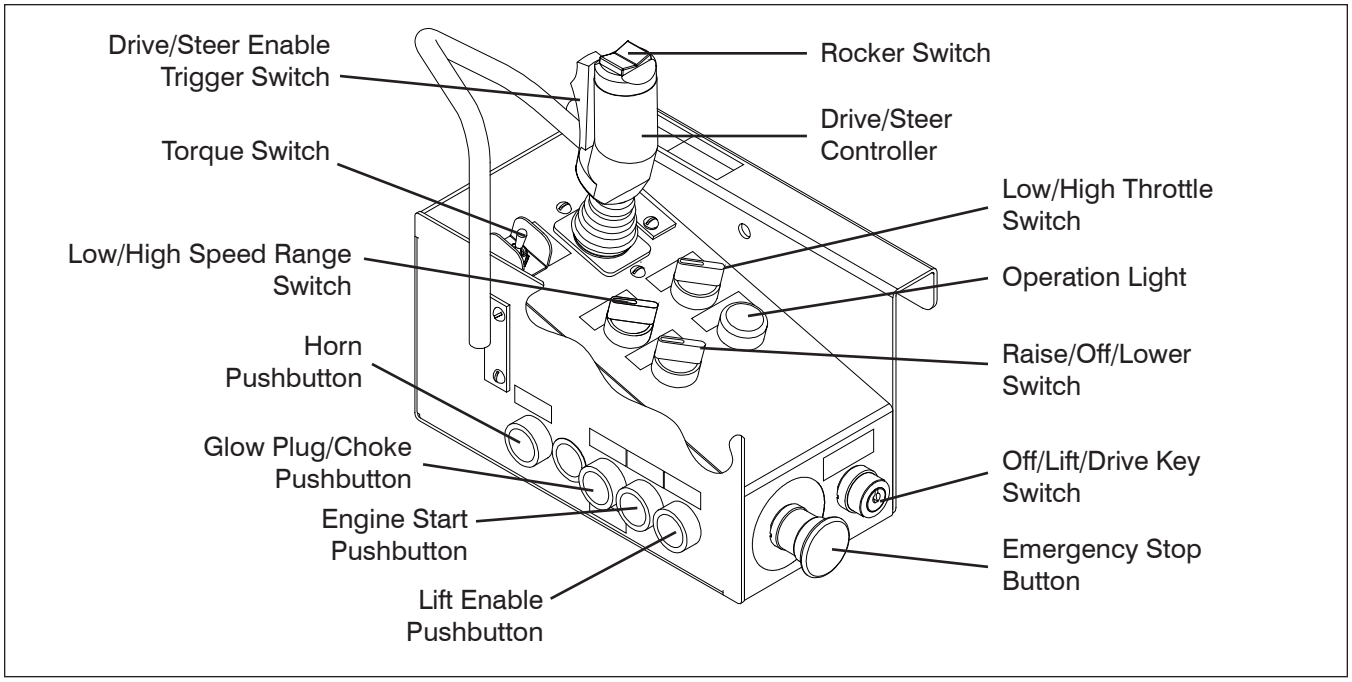
- **Tie Rod**
  - Ensure there are no loose or missing parts, tie rod end studs are locked and there is no visible damage.
- **Ladder**
  - Ensure there are no loose or missing parts and there is no visible damage.
- **Outriggers (If Equipped)**
  - Ensure there are no loose or missing parts and there is no visible damage.

2.3-12 Manuals

Ensure a copy of operating manual, manual of responsibilities and ANSI/CSA certificate 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.

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.



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.

WARNING

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

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

Prior to performing function tests, be sure to read and understand Section 3.8 - Start Operation.

2.4-1 Platform Control Console

1. Turn main power disconnect switch to "|" on position.
2. On base control console, pull out "●" emergency stop button.
3. On engine control console, select off/on/start switch to "|" on position.
4. For dual fuel engine, select fuel supply by moving fuel switch to either "⛽" gasoline or "LPG" liquid propane gas position.

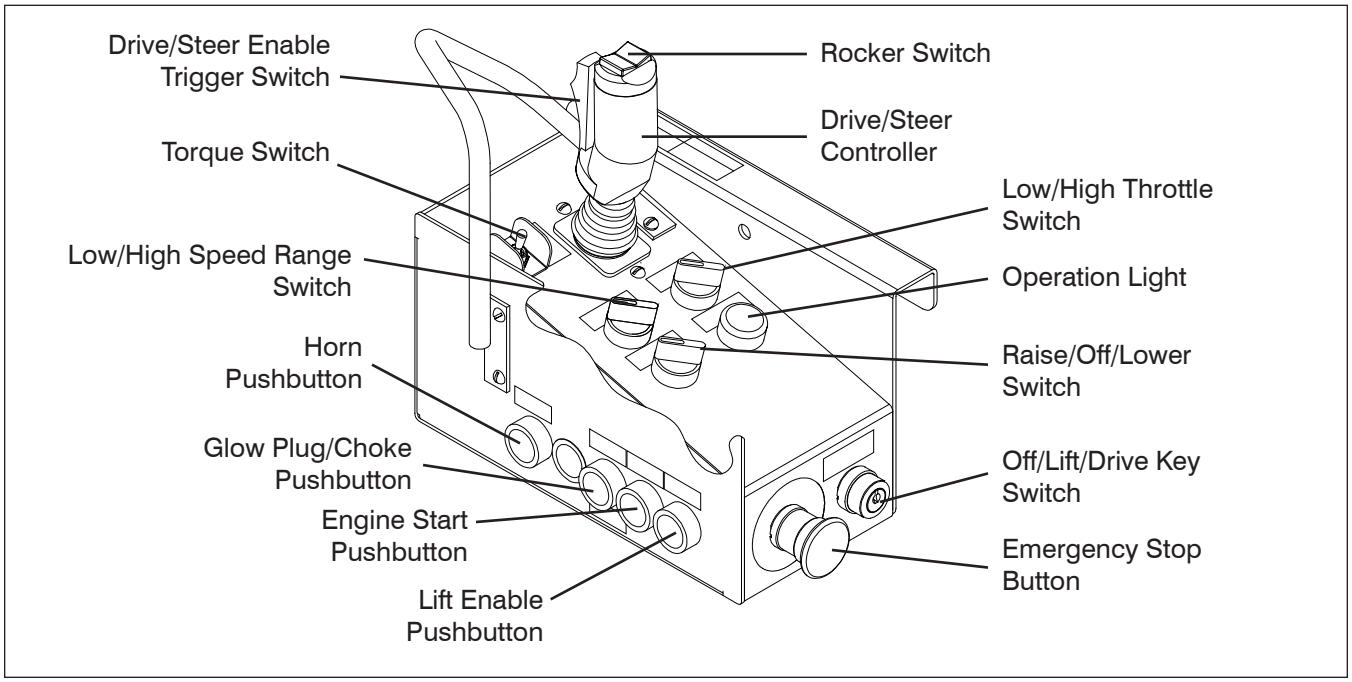
WARNING

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

5. Use the ladder of aerial platform to access platform.
6. Close the gate.
7. Insert key into off/lift/drive key switch and select "↑ ↓" lift position.
8. On platform control console, pull out "●" emergency stop button. A beeping sound should be audible and light should come on.

WARNING

If beeping sound is not audible and light does not come on, aerial platform must be tagged and placed out of service.



9. Select low/high throttle switch to "" low throttle position.

CAUTION

Do not start the engine in the high throttle position.

10. To start the engine:

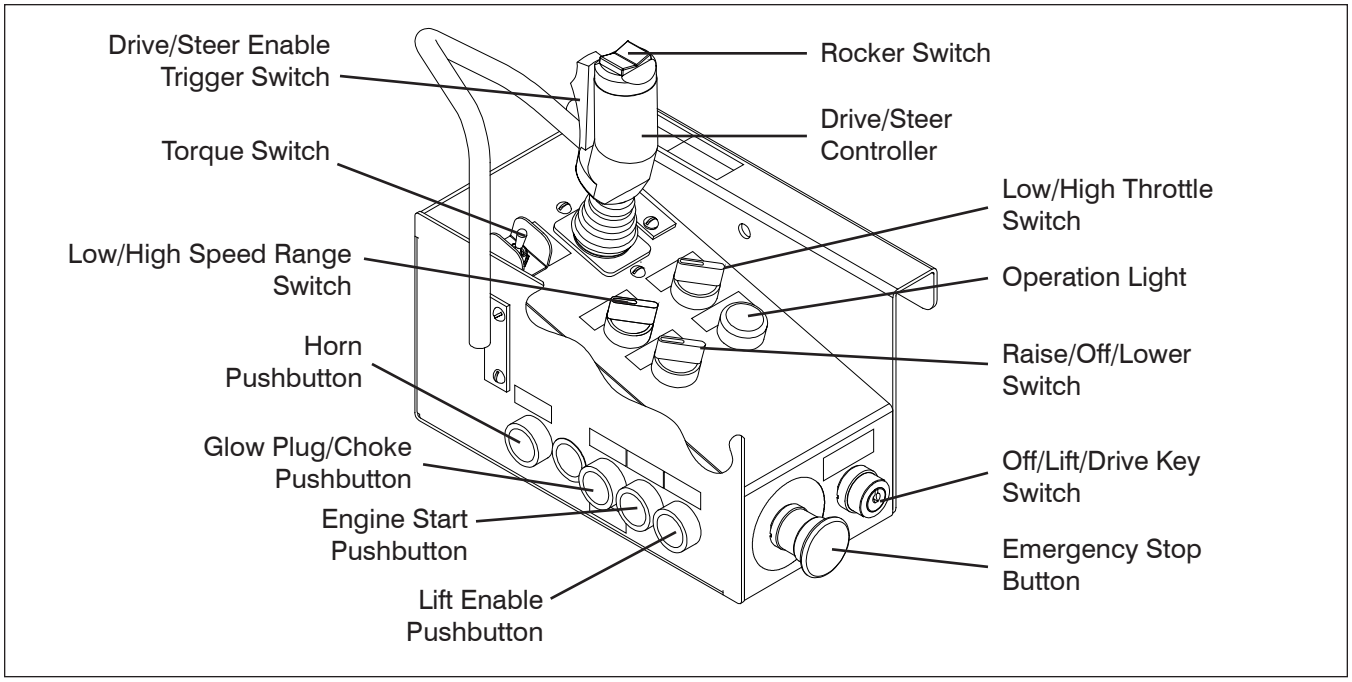
- If dual fuel engine is cold, depress and hold "" choke pushbutton (if equipped) with engine "" start pushbutton to start the engine.
- If diesel engine is cold, select and hold "" glow plug pushbutton for 15 to 20 seconds or until indicator light goes off. Depress and hold "" engine start pushbutton to start the engine.
- If engine is warm, depress and hold "" engine start pushbutton to start the engine.

- **Test Emergency Stop**

1. Push in "" emergency stop button.
   Result: Engine should shut down and aerial platform functions should not operate.

- **Test Lift Enable**

1. Pull out "" emergency stop button.
2. Restart the engine.
3. Select and hold raise/off/lower switch to "" raise position without pressing lift "" enable pushbutton.
   Result: Platform should not rise.



- **Test Platform Raising/Lowering**

WARNING

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

1. Press and hold lift "" enable pushbutton, then select and hold raise/off/lower switch to "" raise position and raise the platform to an approximate height of 1 ft. (30.5 cm). Release switch to stop.
   Result: Platform should rise.
2. Press and hold lift "" enable pushbutton, then select and hold raise/off/lower switch to "" lower position and lower the platform fully. Release switch to stop.
   Result: Platform should lower.

- **Test Enable Trigger Switch**

1. Ensure outriggers are fully retracted. Refer to Section 3.8-10 for hydraulic outriggers operation.
2. Ensure path of intended motion is clear.
3. Select off/lift/drive key switch to "" drive position.
4. Without activating "" enable trigger switch, attempt to drive and steer the aerial platform.
   Result: Drive and steer functions should not operate.

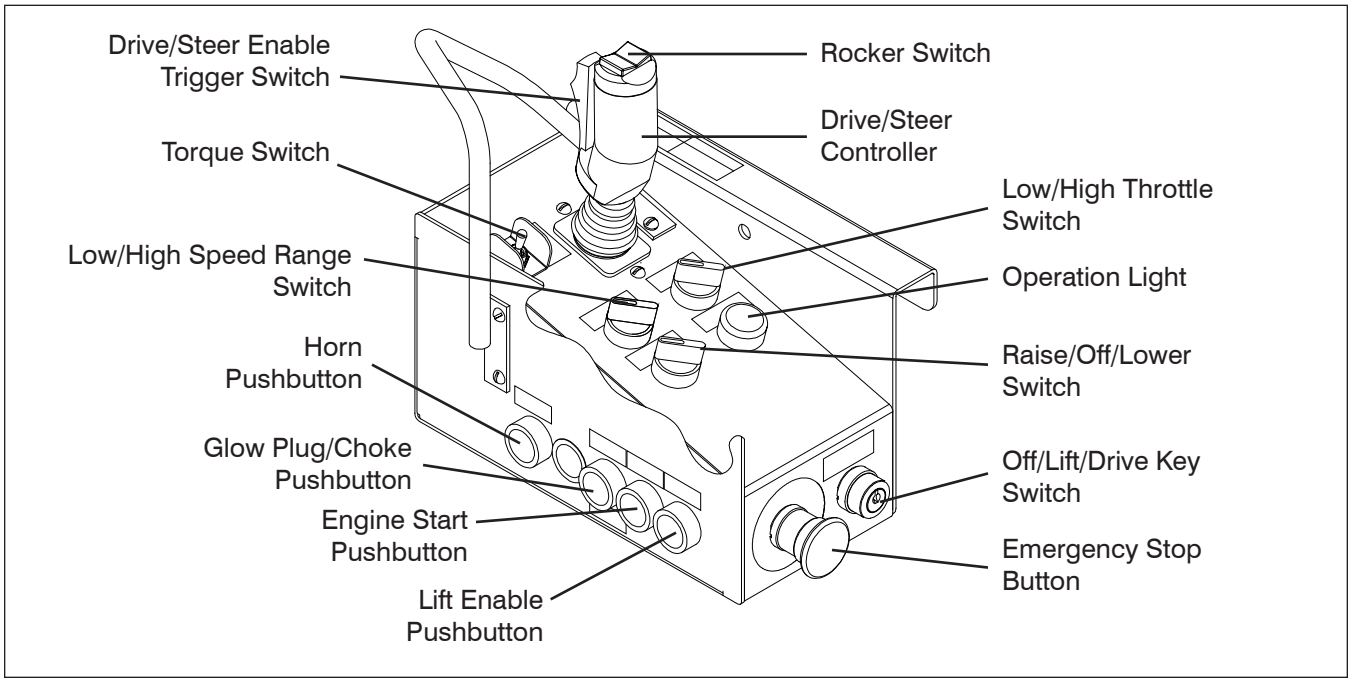
- **Test Steering**

1. Activate and hold enable trigger switch, and then press rocker switch on top of controller to "" left and "" right.
   Result: Steer wheels should turn left and right.

- **Test Horn**

1. Push "" horn pushbutton.
   Result: Horn should sound.

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.



- **Test Driving**

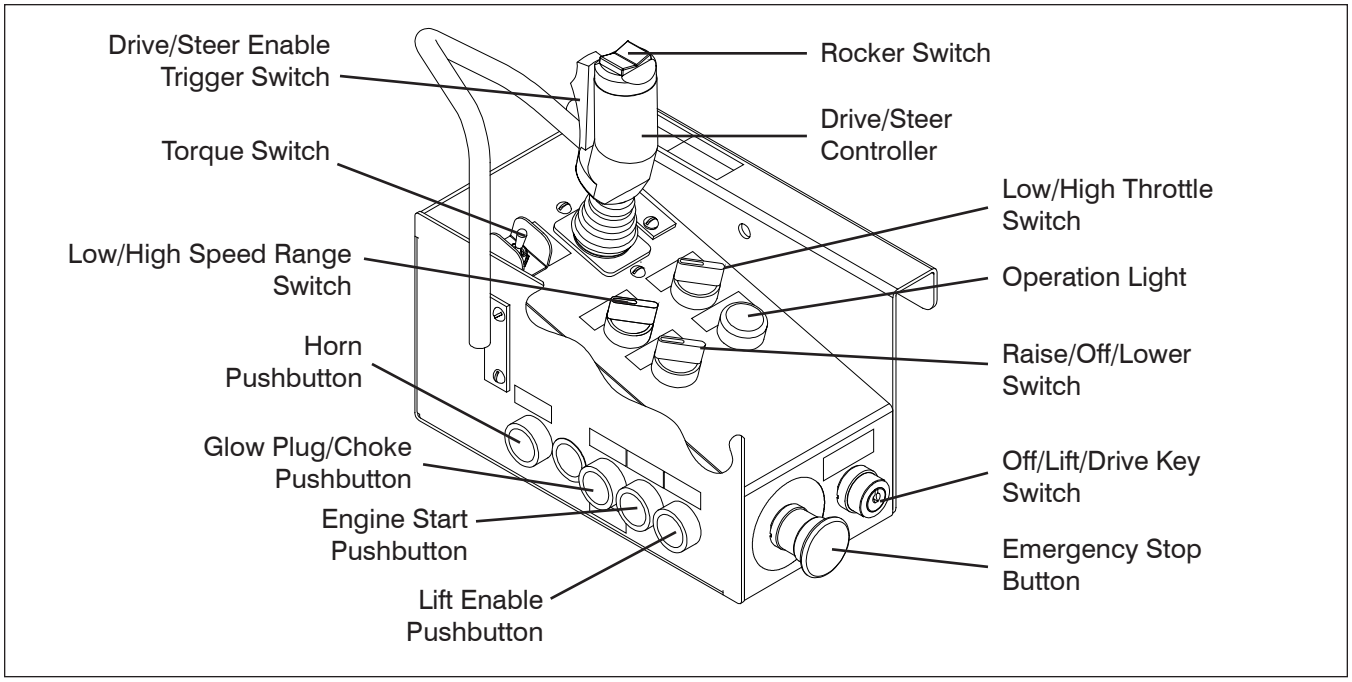
1. Ensure path of intended motion is clear.
2. Activate and hold "" enable trigger switch.
3. Slowly move controller fully "" forward, and then return handle to center position. **Result:** Aerial platform should move in forward direction, and then come to a stop.
4. Slowly move controller fully "" backward, and then return handle to center position. **Result:** Aerial platform should move in reverse direction, and then come to a stop.

- **Test Brake**

WARNING

Brake will engage instantly when controller handle is released, causing aerial platform to stop immediately.

1. Ensure path of intended motion is clear.
2. Activate and hold "" enable trigger switch.
3. Drive aerial platform "" forward. Test brake by releasing controller handle. **Result:** Aerial platform should come to a stop.
4. Drive aerial platform "" forward. Test brake again by releasing "" enable trigger switch only. **Result:** Aerial platform should come to an instant and abrupt stop.



- **Test Speed Limit**

WARNING

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

1. Ensure path of intended motion is clear.
2. Select off/lift/drive key switch to "↑↓" lift position.
3. Raise the platform to an approximate height of 13 ft. (4 m).
4. Select off/lift/drive key switch to " " drive position and attempt to drive forward or reverse.
   Result: Aerial platform should move slower than when it was in stowed position.
5. Fully lower the platform.

- **Test Powerdeck Enable (If Equipped)**

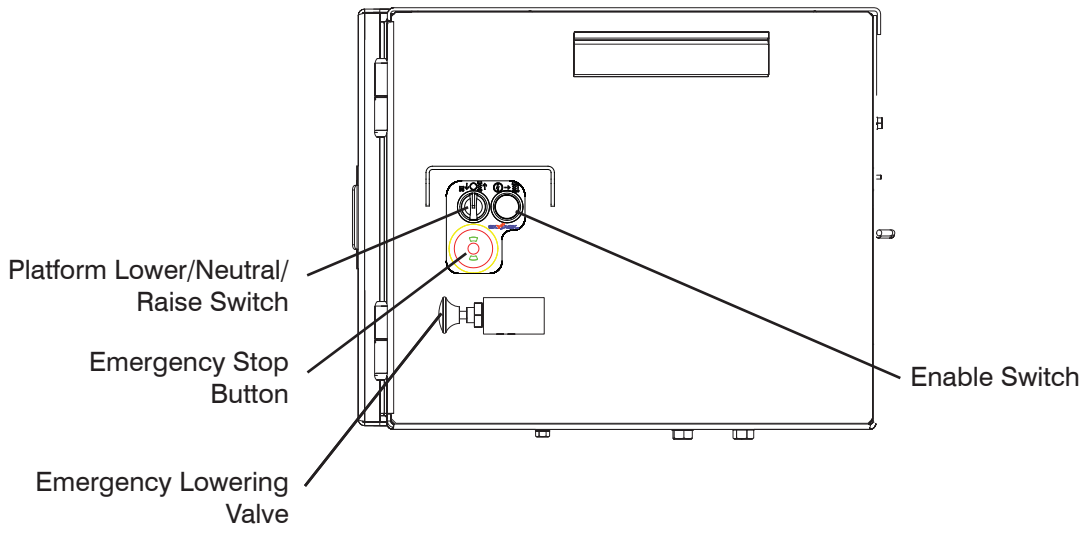
1. Select and hold extend/retract switch to the " " extend position without selecting " " enable switch.
   Result: Platform should not extend.

- **Test Extension Platform(s) (If Equipped)**

1. Extend each extension platform to about 1 ft. (30.5 cm) (refer to Section 3.8-8 or Section 3.8-9).
   Result: Each extension platform should extend.
2. Retract each extension platform fully.
   Result: Each extension platform should fully retract.

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.

Base Control Console



2.4-2 Base Control Console

1. On engine control console, select "" start position to start the engine.

- **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 Base Lift Enable**

1. On base control console, select and hold lower/neutral/raise switch "" to raise position without selecting " → " enable switch.
   Result: Platform should not rise.

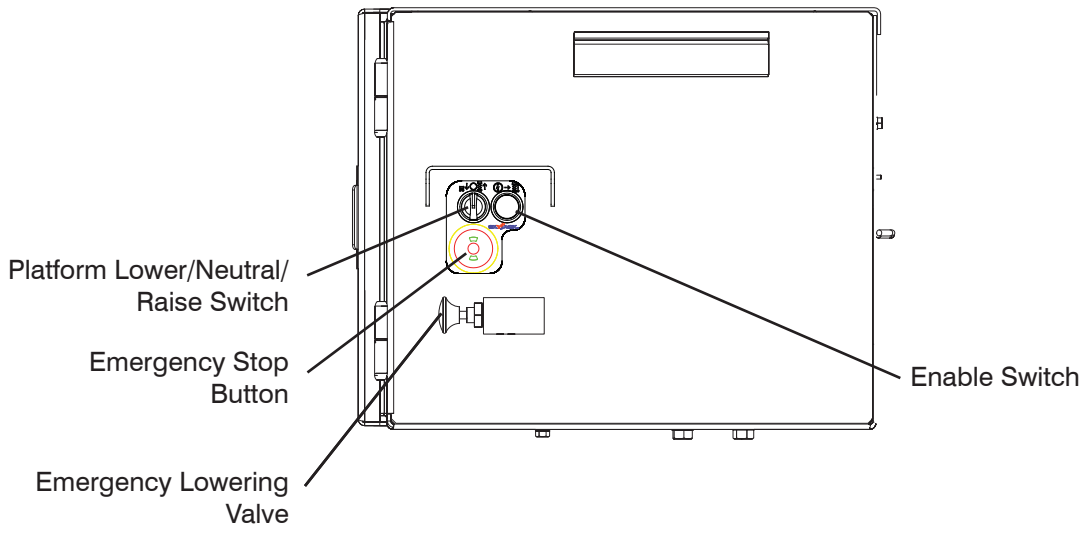
- **Test Lower/Neutral/Raise Switch**

1. On base control console, select and hold " → " enable switch and "" raise the platform with lower/neutral/raise switch.
   Result: Platform should rise.

2. Select and hold " → " enable switch and fully "" lower the platform with lower/neutral/raise switch.
   Result: Platform should fully lower.

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.

Base Control Console



- **Test Emergency Lowering (Model 88xx)**

WARNING

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

1. Raise the platform to an approximate height of 13 ft. (4 m).
2. Turn main power disconnect switch to "◯" off position.
3. Locate holding valve manual override knob at the base of each lift cylinder. Depress and turn counterclockwise. If necessary, use emergency lowering access rod that is located on the base of the aerial platform.
4. On hydraulic/electrical compartment, pull out and hold emergency lowering valve to fully lower the platform.
   Result: The platform should fully lower.
5. To restore normal operation, depress and turn holding valve manual override knobs clockwise.

- **Test Emergency Lowering (Model 9250)**

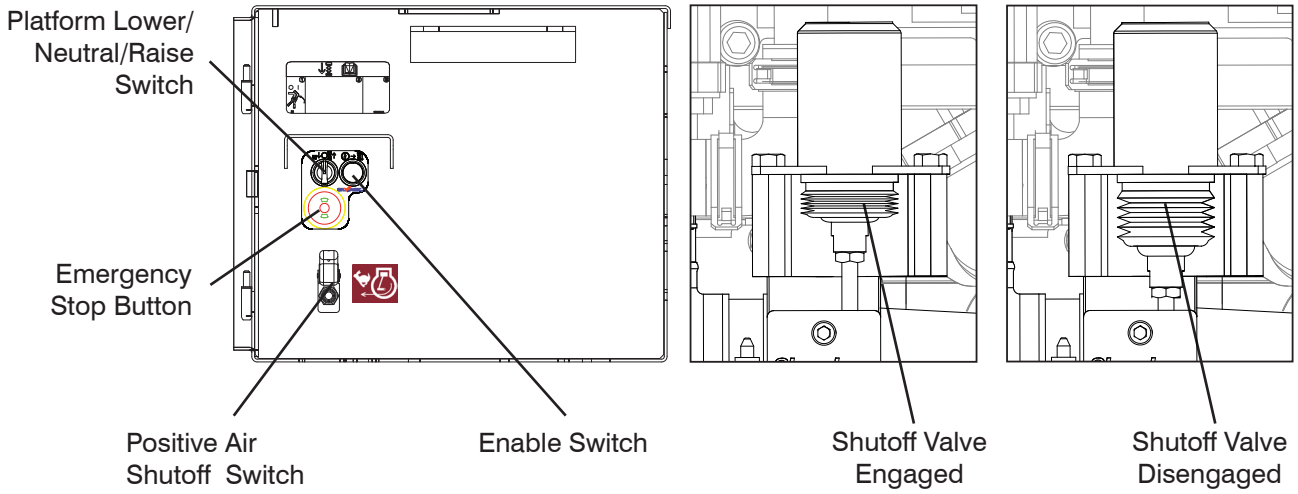
WARNING

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

1. Raise the platform to an approximate height of 13 ft. (4 m).
2. Turn main power disconnect switch to "◯" off position.
3. In hydraulic/electrical compartment, depress and hold emergency lowering pushbutton to activate the auxiliary lowering valves. Pull out and hold the emergency lowering valve to fully lower platform.
   Result: The platform should fully lower.

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.

Base Control Console **Positive Air Shutoff Option**



Engine Compartment Side

- **Test Positive Air Shutoff (If Equipped)**

CAUTION

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

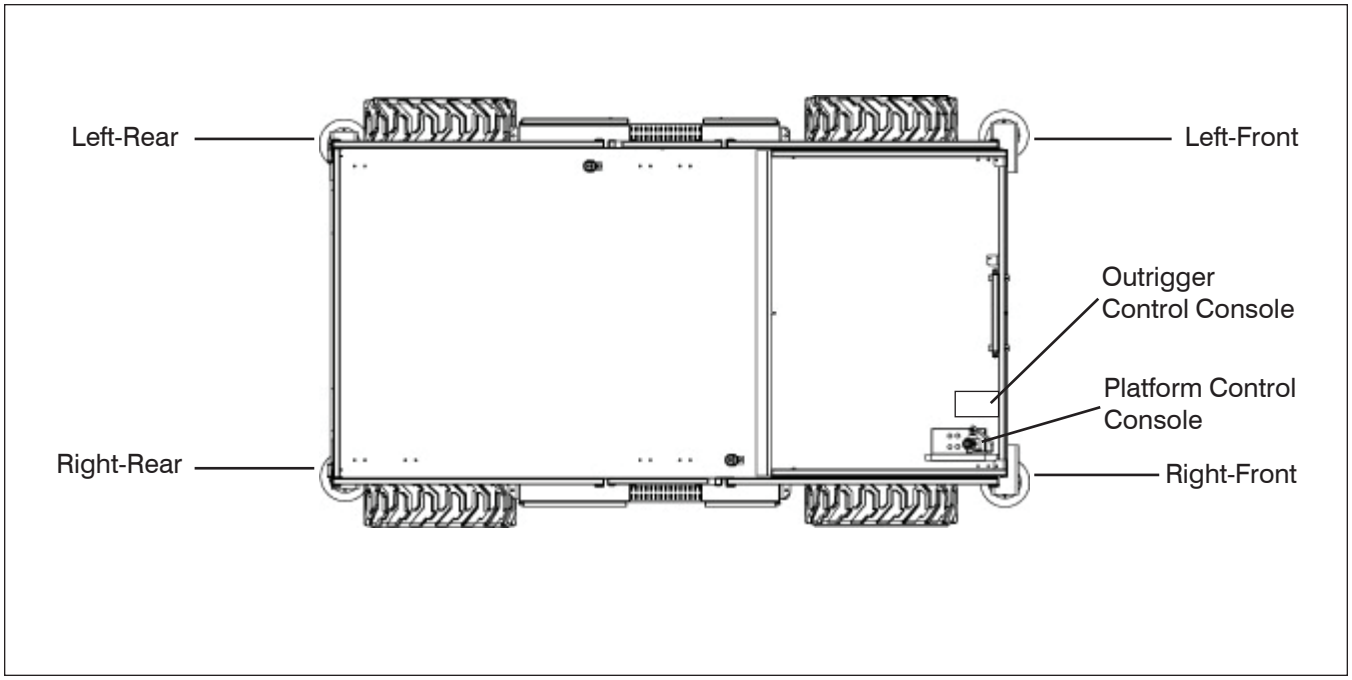
WARNING

Beware of hot engine components.

1. Pull on the two latches to pull out engine compartment..
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. Push in engine compartment until the two latches lock to base. Ensure switch is returned to “off” position and switch guard is down.

- **Test Main Power Disconnect Switch**

1. On hydraulic/electrical compartment, turn main power disconnect switch to “◯” off position.
   Result: Engine should shut down and aerial platform functions should not operate.



- **Test Hydraulic Outriggers (If Equipped)** (For Hydraulic Outrigger Operation, refer to Section 3.8-10)

1. Ensure aerial platform is parked on a firm level surface and free from obstructions.
2. Ensure platform is fully lowered.
3. Ensure outriggers are fully retracted.
4. Auto-level (If equipped):
   Use auto-level to extend outriggers.
   Result: All four outriggers will extend until they are supporting weight and bring machine to within level.
5. Once auto-level is complete, attempt to lift platform 1 foot and then lower the platform to stowed position.
   Result: Platform will lift and lower.
6. With platform at stowed position, fully retract all outriggers using auto-level.
   Result: All four outriggers will retract until they are in the stowed (up) position.

WARNING

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

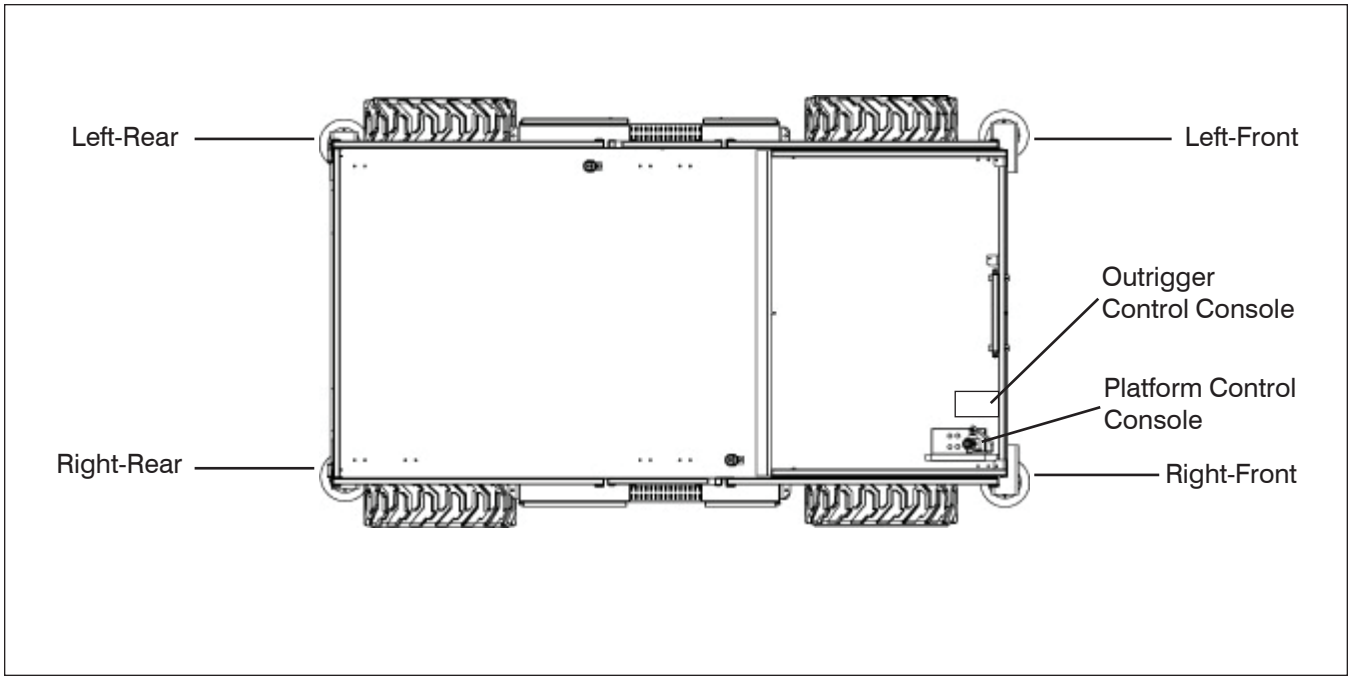
7. Drive the aerial platform to maximum speed.
   Result: Aerial platform drives at high speed.

WARNING

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

8. Lift platform to 12 feet (measured from the bottom of the tires to the platform surface) from stowed position.
   Result: Lift function will operate.
9. Drive aerial platform at raised height (12 feet).
   Result: Aerial platform drives at slow speed.
10. Attempt to operate outriggers at raised height (12 feet).
    - Attempt to partially extend Left-Front Outrigger (approximately 4”).
      Result: Outrigger will not extend.
    - Attempt to partially extend Right-Front Outrigger (approximately 4”).
      Result: Outrigger will not extend.

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.



- Attempt to partially extend Right-Rear Outrigger (approximately 4”).
  Result: Outrigger will not extend.

- Attempt to partially extend Left-Rear Outrigger (approximately 4”).
  Result: Outrigger will not extend.

11. Lower the platform to stowed position.
    Result: Lower function will operate.

12. Raise the platform 1 foot from stowed position and partially extend Left-Front Outrigger (approximately 4”).
    - Attempt to lift the platform.
      Result: Lift function will not operate.

    - Attempt to drive the aerial platform.
      Result: Drive function will not operate.

    - Attempt to lower the platform.
      Result: Lower function will operate.

13. Platform at stowed position.
    - With Left-Front Outrigger partially extended, attempt to lift the platform.
      Result: Lift function will not operate.

    - With Right-Front Outrigger partially extended, attempt to lift the platform.
      Result: Lift function will not operate.

    - With Right-Rear Outrigger partially extended, attempt to lift the platform.
      Result: Lift function will not operate.

    - With Left-Rear Outrigger partially extended, attempt to lift the platform.
      Result: Lift function will not operate.

14. Platform at stowed position.
    - Extend each outrigger until it raises the tires up approximately 2”.

    - Retract the Left-Front Outrigger until the weight is resting on the corresponding tire.

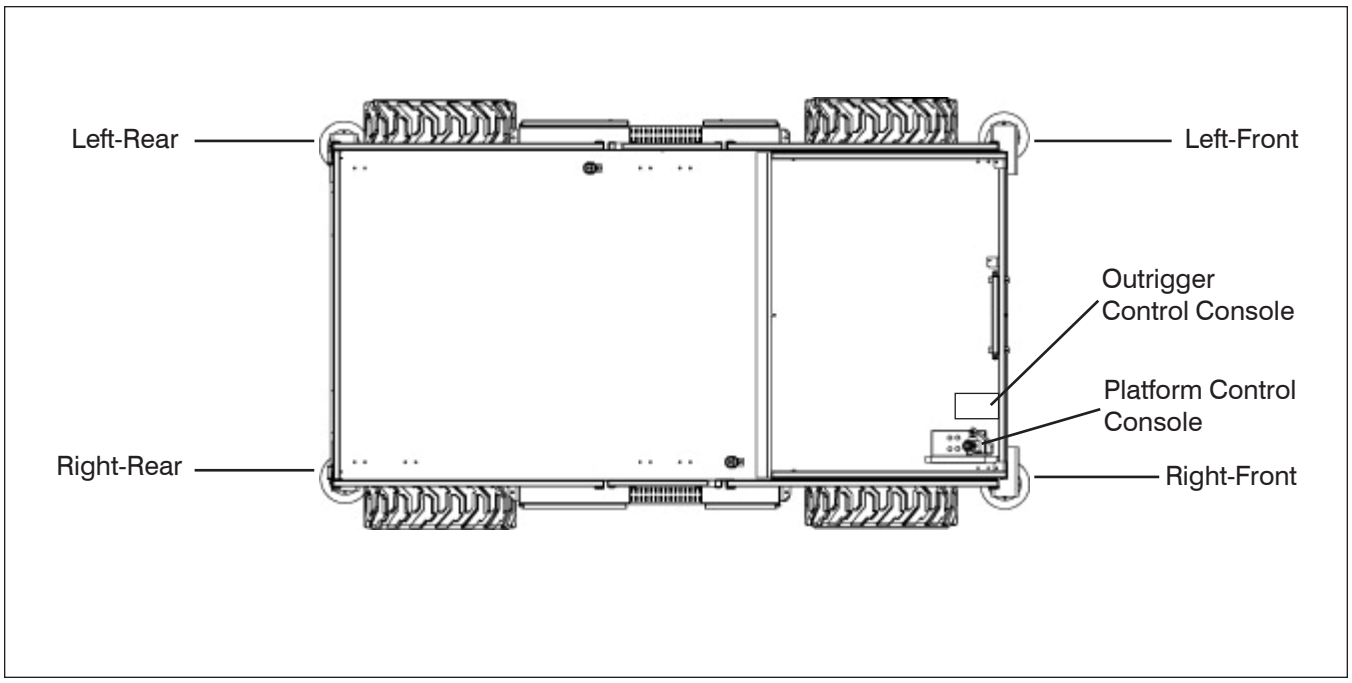
    - Extend the Right-Rear Outrigger until it makes contact with ground.

    - Attempt to lift the platform 1 foot.
      Result: Lift function will not operate.

15. Platform at stowed position.
    - Extend each outrigger until it raises the tires up approximately 2”.

    - Retract the Right-Front Outrigger until the weight is resting on the corresponding tire.

    - Extend the Left-Rear Outrigger until it makes contact with ground.



- Attempt to lift the platform 1 foot.
  Result: Lift function will not operate.

16. Platform at stowed position.
    - Extend each outrigger until it raises the tires up approximately 2".
    - Retract the Right-Rear Outrigger until the weight is resting on the corresponding tire.
    - Extend the Left-Front Outrigger until it makes contact with ground.
    - Attempt to lift the platform 1 foot.
      Result: Lift function will not operate.
17. Platform at stowed position.
    - Extend each outrigger until it raises the tires up approximately 2".
    - Retract the Left-Rear Outrigger until the weight is resting on the corresponding tire.
    - Extend the Right-Front Outrigger until it makes contact with ground.
    - Attempt to lift the platform 1 foot.
      Result: Lift function will not operate.
18. Extend all four outriggers until all tires are off the ground and the aerial platform is levelled.
    - Lift the platform to 12 feet.
      Result: Lift function will operate.
    - Lower the platform from raised height (12 feet).
      Result: Lower function will operate.

WARNING

If any outrigger interlocks fail to operate in the expected manner, the aerial platform should be tagged and removed from operation immediately.

WARNING

Repairs to the aerial platform may only be made by a qualified service technician.

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.

2.5 Winching and Towing Procedure

This section provides the operator with procedures regarding winching, towing and manual brake release.

WARNING

Ensure platform is fully lowered 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”/sec (50 mm/sec).

WARNING

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

WARNING

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

2.5-1 To Release the Brake Manually

WARNING

Do not manually disengage brake if the aerial platform is on an incline.

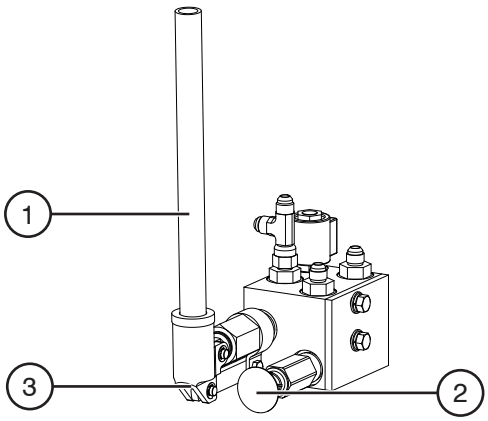


Figure 2-10. Brake System

1. Brake Lever
2. Brake Auto Reset Valve Plunger
3. Brake Pump

WARNING

Brake must be manually disengaged before pushing, winching or towing.

1. Ensure aerial platform is on level ground. Chock or block wheels to prevent aerial platform from rolling.
2. Turn main power disconnect switch to “◯” off position.
3. Locate the manifold and lever in hydraulic/electrical compartment. Insert brake lever (item 1) into brake release pump (item 3).
4. Push in brake auto reset valve plunger (item 2).
5. Pump brake lever (item 1) 1-3 times until firm resistance is felt. The brake is now released. Remove brake lever and secure in clips.
6. Remove wheel chocks or blocks then push, winch or tow aerial platform to desired location.

WARNING

Brake must be reengaged immediately after reaching desired location.

7. Position aerial platform on a firm and level surface.
8. Chock or block wheels to prevent aerial platform from rolling.
9. Reengage brake by pulling out brake valve plunger.

2.6 Emergency Lowering Procedures

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

Models 8831 & 8841

WARNING

Keep clear of scissors mechanism when using emergency lowering valve.

1. Remove any obstructions from a descending platform.
2. Extension platform(s) may need to be retracted or aerial platform may need to be moved to clear obstructions. Refer to Section 2.5 for winching and towing procedures.

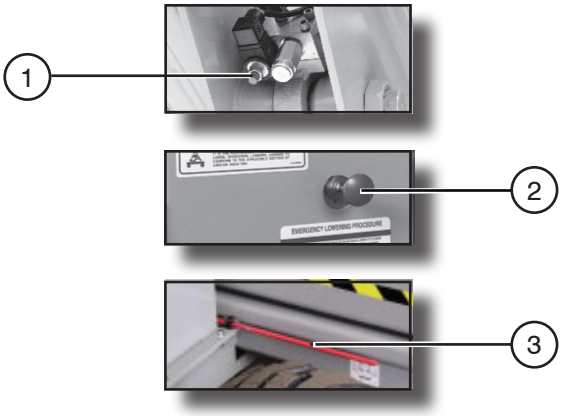


Figure 2-11. Emergency Lowering System

3. Turn main power disconnect switch to "◯" off position.
4. Locate holding valve override knobs (item 1) at base of each lift cylinder. Depress and turn counterclockwise. If necessary, use emergency lowering access rod (item 3) that is located on aerial platform base.
5. On the hydraulic compartment, pull out and hold emergency lowering valve (item 2) to lower platform.
6. To restore normal operation, depress and turn holding valve override knobs clockwise.

Model 9250

WARNING

Keep clear of scissors mechanism when using emergency lowering valve.

1. Remove any obstructions from a descending platform.
2. Extension platform(s) may need to be retracted or aerial platform may need to be moved to clear the obstruction. Refer to Section 2.5 for winching and towing procedures.

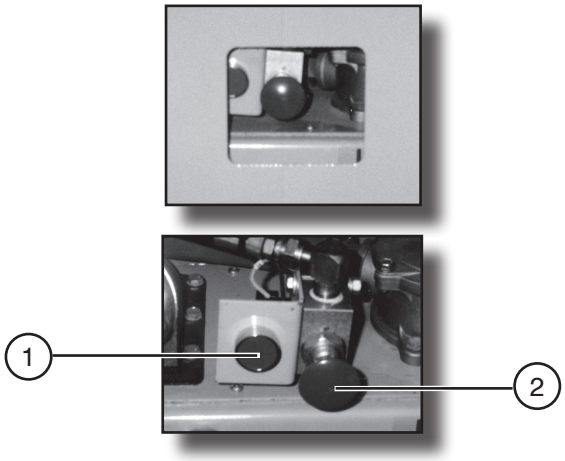


Figure 2-12. Emergency Lowering System

3. Turn main power disconnect switch to "◯" off position.
4. On hydraulic compartment, depress and hold emergency lowering pushbutton (item 1) to activate the auxiliary lowering valves. Pull out and hold the emergency lowering valve (item 2) to lower platform. No further actions are required to restore normal operation.

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.

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 maintenance and inspection schedule 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 person.

3.1-2 Operator's Responsibility for Maintenance

WARNING

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

Death or serious injury could result from the use of an 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 4.8, even if the operator is not directly responsible for the maintenance of this aerial platform.

3.1-3 Maintenance and Inspection Schedule

- The inspection points covered in Table 4.8 indicate the areas of the aerial platform to be maintained or inspected and at what intervals the maintenance and inspections are to be performed.
- The actual operating environment of the aerial platform may affect the maintenance schedule.

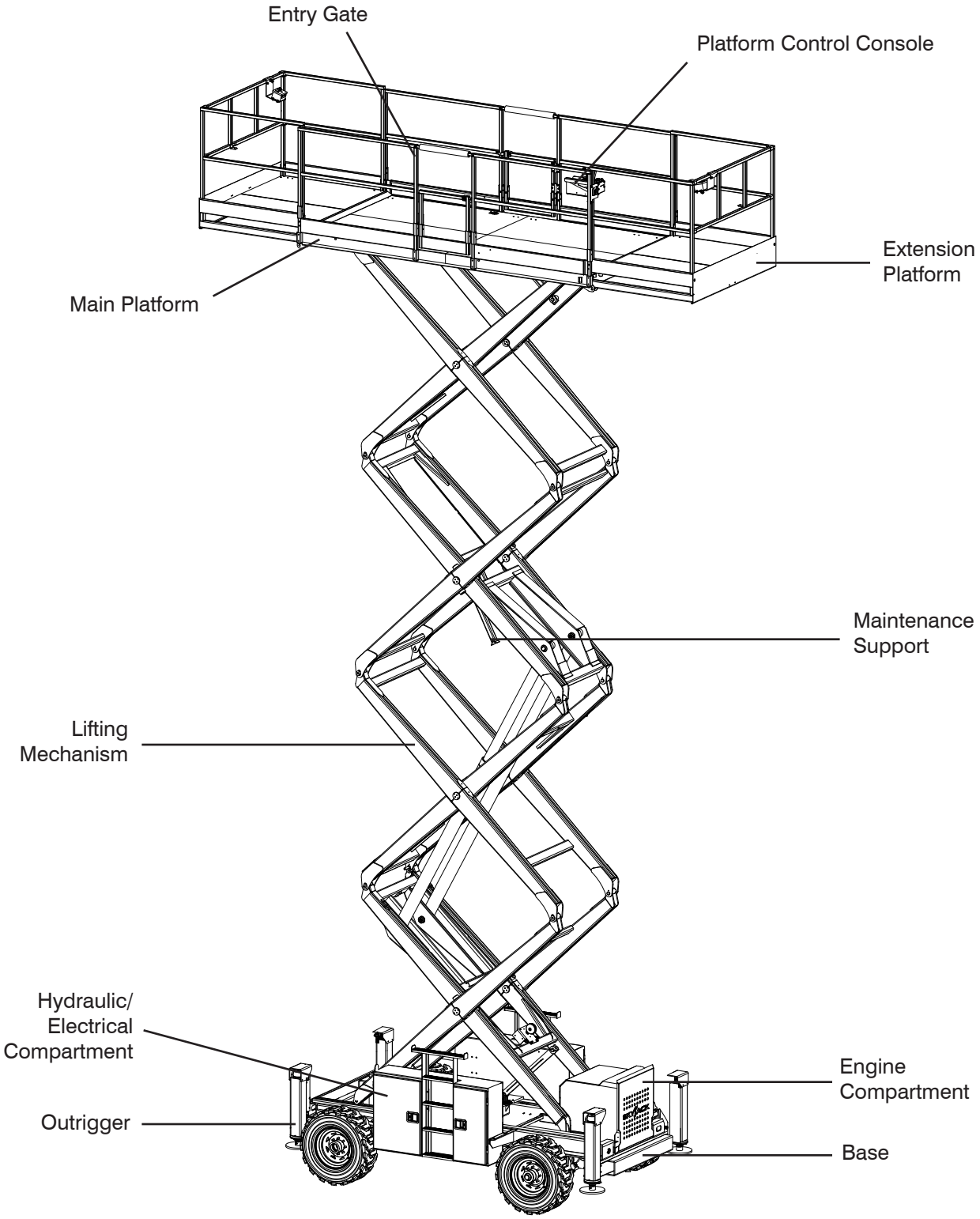
WARNING

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

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 4.8 for recommended maintenance and inspection areas and intervals. A record of annual inspection is kept on a label located on the scissor assembly. Refer to Table 4.2 in this manual.

3.2 Major Components



SKYJACK Model 8841 Aerial Platform

3.3 Major Assemblies

The aerial platform consists of three major assemblies: base, lifting mechanism and platform.

3.3-1 Base

The base is a rigid, one-piece weldment which supports two side compartments.

Model 88xx

- One compartment contains the hydraulic and electrical components, and base control console. The other compartment contains the fuel and hydraulic tanks.
- The propane cylinder is either located behind the access ladder or behind the fuel compartment.
- The front axle is steered by a hydraulic cylinder and is either non-driven (2WD) or drive shaft/gear box driven (4WD).
- The rear axle is drive shaft/gear box driven and has a spring-applied hydraulically released disc brake.
- A roll-out tray at the front of the base supports an engine coupled with a two-section hydraulic pump providing power to the hydraulic system.
- An engine control console is also located at the front of the base.
- The 12V starter battery is located in the hydraulic/electrical compartment or at the front of the engine roll-out tray.

Model 9250

- One compartment contains the hydraulic tank, hydraulic and electrical components, base control console, emergency battery and starter battery.
- The other compartment contains the fuel tank and Liquid Propane (LP) tank (if equipped).
- The front axle is steered by a hydraulic cylinder and is drive shaft/gear box driven (4WD).
- The rear axle is drive shaft/gear box driven and has a spring-applied hydraulically released disc brake.
- A roll-out tray at the front of the base supports an engine coupled with a two-section hydraulic pump providing power to the hydraulic system.
- An engine control console is also located at the front of the base.

3.3-2 Lifting Mechanism

The lifting mechanism is constructed of formed steel or tube sections making up a scissor-type assembly. The scissor assembly is raised and lowered by single-acting hydraulic lift cylinders with holding valves. A two-section pump, driven by an engine, provides hydraulic power to the lift cylinders.

3.3-3 Platform

The platform is constructed of a tubular support frame, a skid-resistant “diamond plate” platform surface and 39” hinged guardrails with 6” toe boards and mid-rails. The platform can be entered from either side through a spring-returned gate. Some full size RTs can be equipped with a front or rear (or both) extension platform(s). Model 9250 is equipped with two powered extension platforms. An AC outlet is also located on the platform.

3.4 Serial Number Nameplate

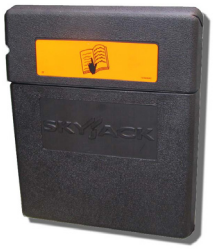
The serial number nameplate, located at the rear of the aerial platform, lists the following:

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

3.5 Component Identification

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

3.5-1 Manual Storage Box



This weather-resistant box is mounted inside of the hydraulic/electrical compartment. It contains operating manual, ANSI manual of responsibility and ANSI/CSA certificate. The operating manual for this make and model of aerial platform must remain with the aerial platform and should be stored in this box.

3.5-2 Maintenance Support

The maintenance support is a safety mechanism designed to support the scissor assembly. When properly positioned, it can support the scissor assembly and empty platform. The maintenance support must be used when inspection and/or maintenance is to be performed within the lifting mechanism. To lower the maintenance support, push lock lever rearward and the maintenance support will drop. Refer to Section 3.12 for procedure on how to use and store the maintenance support.



Figure 3-1. Maintenance Support

WARNING

The maintenance support must be used when inspection and/or maintenance or repairs are to be performed within the lifting mechanism. Failure to use this safety mechanism could result in death or serious injury.

WARNING

Do not reach through the scissor assembly when the platform is raised without the maintenance support properly positioned. Failure to avoid this hazard could result in death or serious injury.

3.5-3 Electrical Control Console

This auxiliary control console is located in the hydraulic/electrical compartment. It contains the following controls:

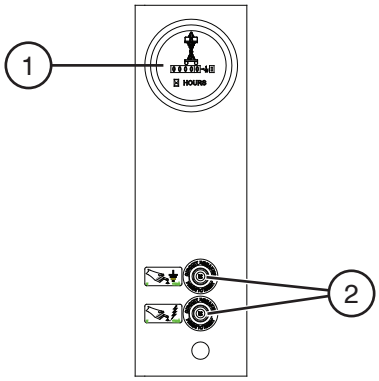


Figure 3-2. Electrical Control Console

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

3.5-4 Folding Guardrail System

This system, when folded down, reduces the height of the retracted aerial platform for transporting and traveling through doorways only. Refer to Section 3.11 for guardrail folding procedure.

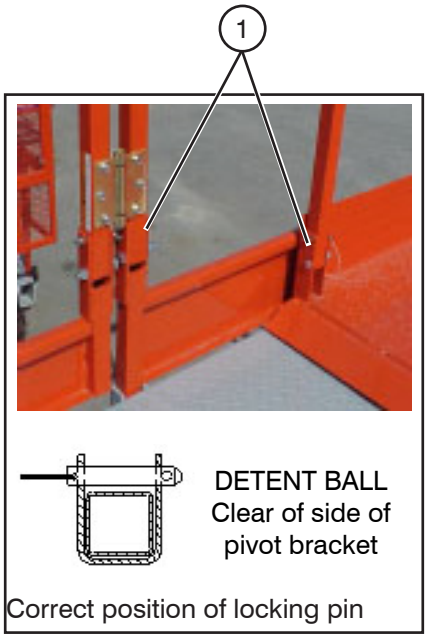


Figure 3-3. Guardrail Locking Pin

WARNING

The scissor assembly must be fully lowered before raising or lowering the guardrails.

WARNING

Before operating this aerial platform check the guardrail system for loose or missing locking pins. The guardrail system must be upright and all pins must be locked in place. Death or serious injury could result if the guardrail system is not upright or properly locked.

3.5-5 Fall Protection Anchorage

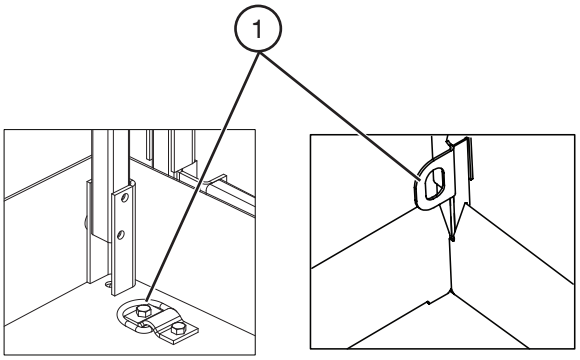


Figure 3-4. Fall Protection Anchorage

1. Use this as an attachment point for a fall restraint system. Do not attach anchorage connectors to any other point on the platform. Do not use this to lift, anchor, secure or support the platform or any other apparatus or material.

WARNING

The fall protection anchorage is to be used for restraint, within the limits of the platform, only.

3.5-6 AC Outlet on Platform

This outlet is a source of AC power on the platform.

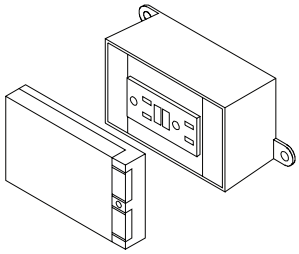


Figure 3-5. AC Outlet on Platform

3.6 Component Identification (Optional Equipment/Attachments)

This following descriptions are for identification, explanation and locating purposes only of optional equipment.

3.6-1 Generator/Outrigger Control Console (If Equipped)

The outrigger control console are located next to the platform control console. These switches control the outriggers' extension and retraction.

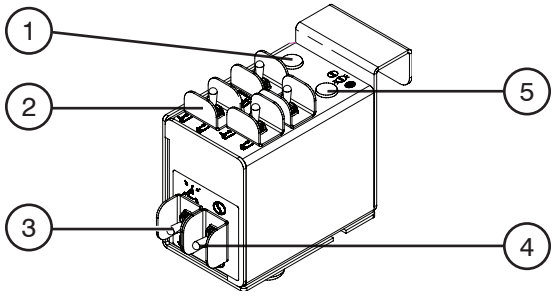


Figure 3-6. Outrigger Controls with All Options on Auxiliary Control Console

1. **Generator Switch** - This switch activates the generator.

2. **Outrigger Extend/Retract Switches** - These switches control the extension and retraction of each individual outrigger.

3. **Auto-Level Switch** - When this switch is in the "" extend position, each outrigger will extend and automatically adjust until the aerial platform is level. When the switch is in the "" retract position, the outriggers will retract.

4. **Outrigger Enable Switch** - This "" outrigger enable switch, when in the extend or retract position, activates the functions on the auto-level switch and the outrigger extend/retract switches.

5. **Leveling Indicator Light** - This light functions when the auto and manual level functions are in use and illuminates to display the status of the auto-leveling outriggers. The indicator light has the following states:

   Off: The outriggers are fully retracted.

   Flashing Rapidly: The outriggers are extending or retracting.

   Flashing: Not all outrigger legs have firm ground contact or aerial platform is not level.

   On: The outriggers are extended and the platform is level.

3.6-2 Powered Extension Control Console (If Equipped)

This control console is mounted on one of the extension platform guardrails. It contains the following controls:

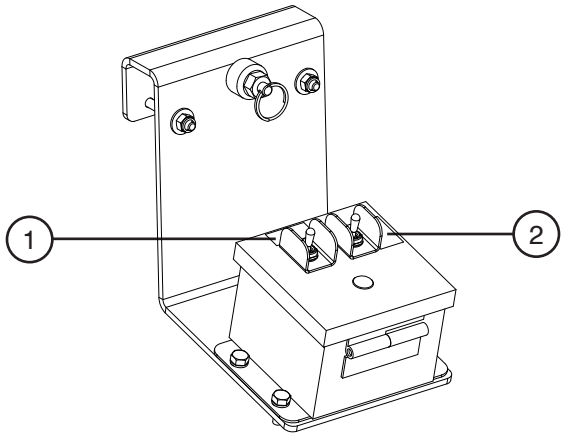


Figure 3-7. Powered Extension Control Console

1. **Enable Switch** - This switch, when activated and held, allows the extension platform extend/retract switch functions to operate.

2. **Extend/Retract Switch** - This switch, when activated, "" extends or "" retracts the powered extension platform. Refer to Section 3.8-9 on how to extend/retract the powered extension platform.

3.6-3 1500W AC Inverter (If Equipped)

The inverter is located on the base of the aerial platform. It has the following controls:

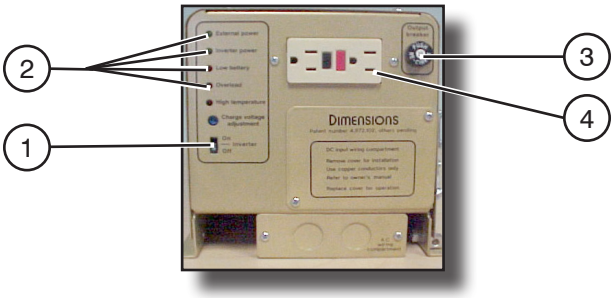


Figure 3-8. 1500W AC Inverter

NOTE

The inverter operation is automatic. These controls do not need to be manipulated for normal operation.

1. **On/Off Switch -** This diagnostic slide switch activates or terminates inverter operation. It should remain in the on position.

2. **Status LEDs** - These LEDs indicate the operating or fault status of the inverter.

3. **15 Amp Circuit Breaker** - In the event of a power overload or circuit grounding, the circuit breaker pops out. Press the breaker back in to reset.

4. **GFCI Outlet** - During inverter operation, this outlet provides AC power.

3.7 Operator's Responsibility

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

1. **Visual and Daily Maintenance Inspections**

   - are designed to discover any damage of components before the 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 Checklist (see Table 4.9) 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 damaged or any unauthorized variation from factory-delivered condition is discovered, the aerial platform must be tagged and removed from service.

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

Scheduled maintenance inspections shall only be performed by qualified service technician (see Table 4.8).

3.8 Start Operation

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

3.8-1 To Activate Base Control Console

WARNING

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

1. Use the ladder of aerial platform to access platform.
2. Close the gate.
3. On platform control console, pull out "" emergency stop button.
4. Insert key into off/lift/drive key switch and select "" lift position.
5. Select low/high throttle switch to "" low throttle position.

   CAUTION

   Do not start the engine in the high throttle position.
6. Use the ladder to dismount from platform.
7. Turn main power disconnect switch to "|" on position.
8. On base control console, pull out "" emergency stop button. A beeping sound should be audible and light should come on.

   WARNING

   If beeping sound is not audible and light does not come on, aerial platform must be tagged and placed out of service.
9. On engine control console, select off/on/start switch to "|" on position.
10. For dual fuel engine, select fuel supply by moving fuel switch to either "" gasoline or "" liquid propane gas position.

11. To start the engine:

    - If dual fuel engine is cold, select and hold "choke switch" (if equipped) with engine "start switch" to start the engine.
    - If diesel engine is cold, select and hold "glow plug switch" for 15 to 20 seconds or until indicator light goes off. Depress and hold "engine start switch" to start the engine.
    - If engine is warm, depress and hold "engine start switch" to start the engine.

3.8-2 To Raise or Lower Platform Using Base Control Console

WARNING

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

WARNING

Do not lower the platform unless the area below is clear of personnel and obstructions.

1. Activate base control console (refer to Section 3.8-1).
2. On base control console, select and hold "enable switch".
3. Select and hold lower/neutral/raise switch to either "raise" or "lower" position. Release switch to stop.

3.8-3 To Activate Platform Control Console

1. Turn main power disconnect switch to "on" position.
2. On engine control console, select off/on/start switch to "on" position.
3. For dual fuel engine, select fuel supply by moving fuel switch to either "gasoline" or "liquid propane gas" position.
4. On base control console, pull out "emergency stop button.

WARNING

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

5. Use the ladder of aerial platform to access platform.
6. Close the gate.
7. On platform control console, insert key into off/lift/drive key switch and select "lift position.
8. Pull out "emergency stop button. A beeping sound should be audible and light should come on.

WARNING

If beeping sound is not audible and light does not come on, aerial platform must be tagged and placed out of service.

9. Select low/high throttle switch to "low throttle position.

CAUTION

Do not start the engine in the high throttle position.

10. To start the engine:

    - If dual fuel engine is cold, depress and hold "choke pushbutton" (if equipped) with engine "start pushbutton" to start the engine.
    - If diesel engine is cold, select and hold "glow plug pushbutton" for 15 to 20 seconds or until indicator light goes off. Depress and hold "engine start pushbutton" to start the engine.
    - If engine is warm, depress and hold "engine start pushbutton" to start the engine.

3.8-4 To Raise or Lower Platform Using Platform Control Console

WARNING

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

WARNING

Do not lower the platform unless the area below is clear of personnel and obstructions.

1. Activate platform control console (refer to Section 3.8-3).

2. Press and hold lift "" enable pushbutton, then select and hold raise/off/lower switch to either "" raise or "" lower position. Release switch to stop.

WARNING

To protect against unintended movement of the aerial platform, push in the emergency stop button after you have arrived at your desired location or elevation.

NOTE

If the tilt alarm sounds and the platform does not, or only partially raises, immediately lower the platform completely and ensure that the aerial platform is on a firm level surface.

NOTE

Some models may be equipped with 30-foot (9.1-meter) lift height restriction. To raise the platform higher than 30 ft. (9.1 m), the aerial platform's outriggers must be properly deployed before lifting from a fully lowered position. Refer to Section 3.8-10.

3.8-5 To Drive Forward or Backward

WARNING

Be aware of blind spots when operating the aerial platform.

WARNING

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

1. Activate platform control console (refer to Section 3.8-3).

2. On platform control console, select off/lift/drive key switch to "" drive position.

3. Activate and hold "" enable trigger switch.

4. Push or pull controller handle forward or backward to desired speed and direction of platform travel.

5. Return controller to neutral center position to stop. Release "" enable trigger switch.

WARNING

To protect against unintended movement of the aerial platform, push in the emergency stop button after you have arrived at your desired location or elevation.

3.8-6 To Steer

1. Activate platform control console (refer to Section 3.8-3).
2. Select off/lift/drive key switch to "↑↓" drive position.
3. Activate and hold "" enable trigger switch.
4. Press "" rocker on top of controller handle in either direction to steer.

NOTE

Steering is not proportional. Driving and steering can be activated at the same time.

3.8-7 To Select Drive Torque

1. **High Torque:** Select high torque when ascending or descending grades, traveling on rough terrain or when loading or unloading aerial platform. To activate high torque, select low/high speed range switch to "" low speed (high torque) position.

WARNING

Aerial platform must be in fully retracted position when operated on any grade. Driving while elevated on any grade may result in death or serious injury.

2. **Low Torque:** Select low torque when traveling on a flat level surface. To activate low torque, select low/high speed range switch to "" high speed (low torque) position.

WARNING

To protect against unintended movement of the aerial platform, push in the emergency stop button after you have arrived at your desired location or elevation.

3.8-8 To Extend or Retract Manual Extension Platform

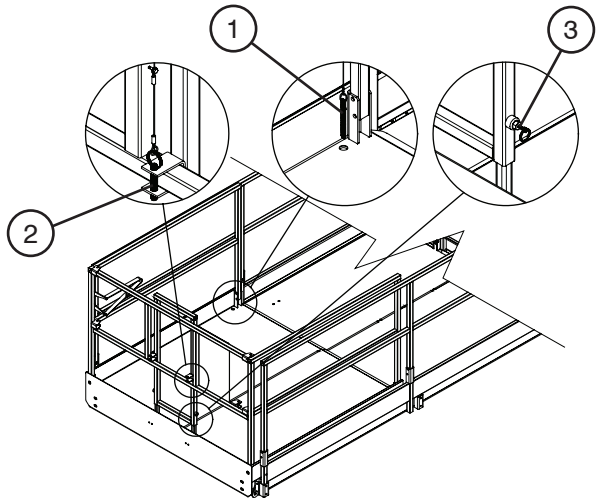


Figure 3-9. Manual Extension Platform

1. To extend/retract the manual extension platform, remove the locking pin (item 1) then remove the push bar locking pins (item 2) and rotate the push bar towards the main platform. Extend the push bar until it locks at full extension and push/pull the extension platform using the push bar.

2. Upon full extension or retraction, reinsert the locking pin on the platform (item 1) to prevent accidental movement of the manual extension platform during travel or transport.

3. When the push bar is not in use, pull the plungers (item 3) on the push bar and retract it, then rotate it back to its resting position and lock it into place with the locking pins (item 2).

3.8-9 To Extend or Retract Powered Extension Platform (If Equipped)

1. To extend the powered extension platform, ensure "" emergency stop button is pulled out.

2. On platform control console, insert key into off/lift/drive key switch and select "" lift position.

3. On the powered extension control console, select and hold "" enable switch, then push the extend/retract switch to the "" extend position. Release switch to stop.

4. To retract platform, select and hold "" enable switch, then push extend/retract switch to "" retract position. Release switch to stop.

WARNING

To protect against unintended movement of the aerial platform, push in the emergency stop button after you have arrived at your desired location or elevation.

3.8-10 Hydraulic Outriggers (If Equipped)

These devices are mounted to the four corners of the base.

3.8-10a Before Operation

1. Move around aerial platform to check overhead clearances and ground obstructions.

2. Lower the platform completely. Refer to Section 3.8-4. Outrigger controls are not functional when platform is raised.

3. Check that the supporting surface under the tires and outrigger pads is firm and capable of supporting aerial platform and rated load. Do not place outrigger pad on a street drain, manhole cover or other unsupported surface.

3.8-10b To Extend Outriggers

4. On outrigger control console, select and hold "" enable switch to provide power to outrigger circuit.

5. **Auto Extension:** Select auto-level switch to "" extend position until leveling indicator light stops flashing and remains on. Aerial platform should be level and completely supported by the outriggers.

   Manual Extension: Select corresponding outrigger extend/retract switch to "" extend position until platform is fully supported by outriggers and is level. The indicator light flashes while platform is being leveled and remains on once platform is level.

The indicator light has the following states:



Off: The outriggers are fully retracted.



Flashing Rapidly: The outriggers are extending or retracting.



Flashing: Not all outrigger legs have firm ground contact or aerial platform is not level.



On: The outriggers are extended and the platform is level.

6. Ensure each outrigger pad is in firm contact over its entire surface area, with a suitable supporting surface! Make adjustments if necessary using manual outrigger controls.

7. Operate all non drive functions as described in their respective sections.

NOTE

Each outrigger pad must be in firm contact with the ground for most aerial platform functions to work.

NOTE

Drive functions are disabled if the outriggers are in any position other than fully retracted.



WARNING

If alarm sounds during operation, the aerial platform is not level or an outrigger does not have firm ground contact. Lower the platform immediately! Make the necessary adjustments to level the aerial platform.

3.8-10c To Retract Outriggers

8. Ensure platform is fully lowered.

9. On outrigger control console, select and hold "" enable switch to provide power to outrigger circuit.

10. **Auto Retraction:** Select auto-level switch to "" retract position until outriggers are fully retracted.

    Manual Retraction: Select corresponding pairs of outrigger extend/retract switch to "" retract position until outriggers are fully retracted.

NOTE

Limit switches are used to protect outriggers from being damaged. If drive functions are not available, visually check to see that all outriggers are fully retracted.

3.8-11 Generator (If Equipped)

To start the hydraulic generator:

1. On platform control console, select off/lift/drive key switch to "↑↓" lift position.
2. Depress and hold " " engine start pushbutton to start the engine.
3. On auxiliary control console, select hydraulic generator switch to "|" energized position. Engine will automatically switch to high throttle and generator will start.

To stop the hydraulic generator:

4. Select hydraulic generator switch to "◯" off position. The generator will turn off and throttle will return to selected speed.

NOTE

Activating any lift or outrigger functions, changing the key switch setting, activating the emergency stop or an engine stall will turn off the generator. The platform may be lowered during generator operation.

3.8-12 Electrical Inverter (If Equipped)

The inverter is operational with alternating current available at all times when, and only when, the engine is running at high throttle. Deselecting the high idle throttle setting or stopping the engine will turn the inverter off.

To check the status of the inverter:

1. During routine operation, the on/off switch should remain in the on position. To prevent automatic inverter operation when high throttle is activated, slide the on/off switch on the inverter to the off position.
2. Inverter state is indicated by the LEDs on the face of the inverter. A glowing green LED indicates normal operation. If a fault occurs, the status LEDs will indicate the area responsible. After the fault condition is corrected, the inverter will automatically reset itself.

3.8-13 Shutdown Procedure

1. Completely lower the platform.
2. On platform control console, push in "●" emergency stop button.
3. Select off/lift/drive key switch to "◯" off position and remove key.

WARNING

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

4. Use the ladder to dismount from platform.
5. On base control console, push in "●" emergency stop button.
6. On engine control console, select engine off/on/ start switch to "◯" off position.
7. Turn main power disconnect switch to "◯" off position.

3.9 Refueling Procedures

This section provides the operator with the procedure on how to refuel the engine with regular fuel and install the propane cylinder.

IMPORTANT

Before using the aerial platform ensure there is enough fuel to finish the job.

WARNING

Follow all local and federal regulations for propane handling.

WARNING

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

- **Use extreme caution while refueling aerial platforms.**
- **Ensure engine and all systems are turned off before refueling.**
- **Refuel aerial platform only in a well ventilated area away from open flame and other sources of ignition, authorized by your employer and supervisor.**
- **Liquid propane gas fuel is a gas that is heavier than air. It will settle in low spots. Any flame or spark could cause a fire that could cause serious injury.**
- **When changing liquid propane gas cylinder, Check all connections for damage or missing parts.**
- **Never try to start an aerial platform if you smell gas.**
- **For gasoline engine models, use only unleaded gasoline with an octane rating 87 or higher.**

WARNING

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

3.9-1 Regular Fuel (Gasoline or Diesel)

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

Protection of Environment from Chemical Dangers

WARNING

Gasoline, diesel fuel, engine oil and hydraulic fluid are chemicals, which can contaminate the environment. If they are spilled during filling and reach the water, they can cause damage to the environment, e.g., death of fish. For such damage, the party responsible is liable! Therefore, gasoline, diesel fuel, engine oil or hydraulic fluid must not get into the sewage system, streams, rivers or other surface water. For that reason, immediately remove the dripped off or spilled gasoline, diesel fuel, engine oil or hydraulic fluid with appropriate means and dispose of these means according to the regulations.

3.9-2 Propane

WARNING

Follow all local and federal regulations for propane handling.

To remove a propane cylinder:

1. Ensure engine and all systems are turned off and emergency stop button is depressed.
2. Turn propane cylinder's main valve clockwise to shut off fuel supply to engine.
3. Start engine and allow it to stop naturally. Restart engine to ensure fuel lines are empty.
4. Disconnect hose from empty propane cylinder by detaching the coupling. Turn fitting counterclockwise.
5. Loosen two propane cylinder straps by pulling up on the metal clips. Disconnect straps from hooks.
6. Remove the propane cylinder.

To install a propane cylinder:

1. Ensure engine and all systems are turned off and emergency stop button is depressed.
2. Place propane cylinder on bracket or in compartment.
3. Ensure metal peg on bracket or compartment is inserted into propane cylinder rim.
4. Reconnect propane cylinder straps to hooks and fasten tightly.
5. Attach coupler to propane cylinder and turn clockwise to tighten fitting.
6. Apply soap water or neutral detergent to pipe connection and cylinder.
7. Open valve 1/4 turn counterclockwise and check for any gas leaks.
8. Wipe off soap water or detergent after inspection is completed.
9. Open main valve fully if there are no leaks.

NOTE

The aerial platform is now ready for use by an authorized, qualified operator who has read and completely understands all of Section 3 operations in this manual.

3.10 Loading/Unloading

Know and heed all national, state or territorial/provincial and local rules which apply to your loading/unloading of aerial platforms.

Only qualified personnel shall operate machinery 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/unloaded.

3.10-1 Lifting

WARNING

Only qualified rigger shall operate machinery during lifting.

When it is necessary to lift the aerial platform the following conditions must be met:

- The platform must be fully lowered.
- The main power disconnect switch must be in "◯" off position.
- The hydraulic/electrical and fuel compartments must be closed and securely latched.
- The extension platform must be retracted and secured.
- The platform control console must be secured to the railings or removed.
- The platform must be cleared of all personnel, tools and materials.
- The lifting/rigging must be attached to all four lifting points as illustrated in Figure 3-10.

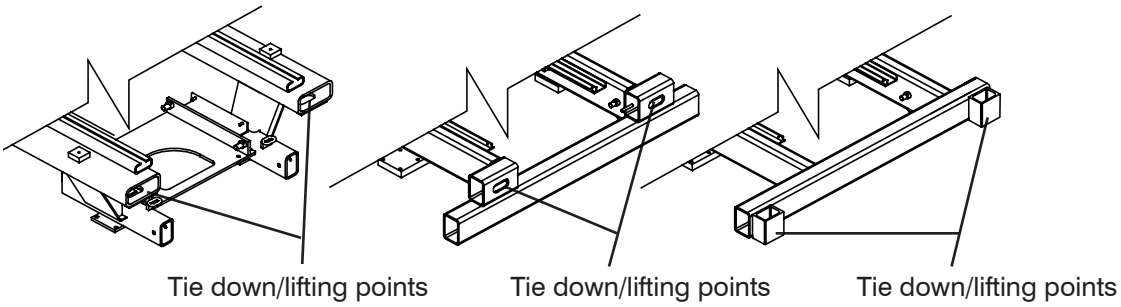


Figure 3-10. Tie Downs/Lifting Points

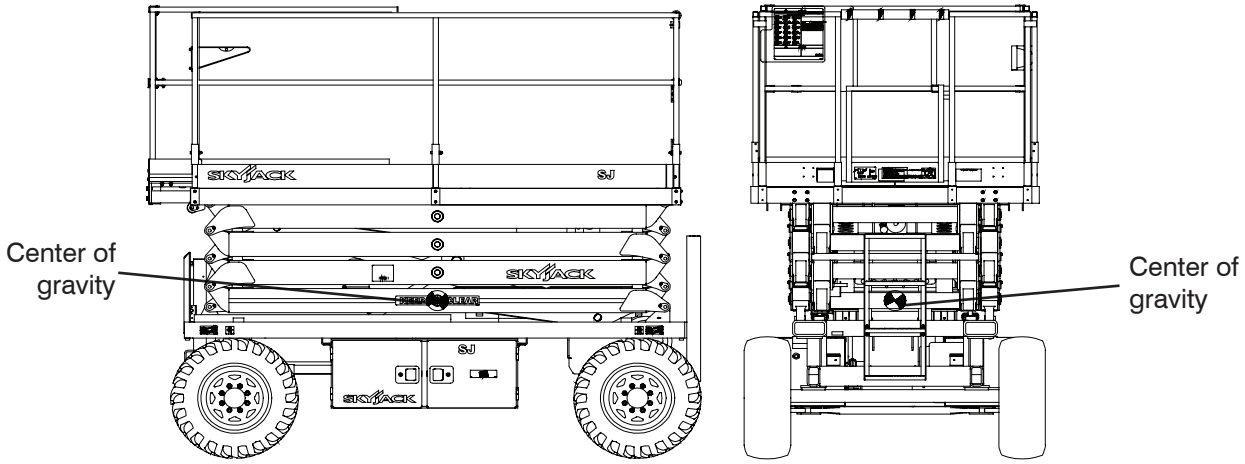


Figure 3-11. Center of Gravity

NOTE

The mass of the aerial platform is as per Table 4.3. The center of gravity is approximately located in the middle of the aerial platform, front to back and side to side, as illustrated in Figure 3-11. Vertically, the center of gravity is approximately just above the base chassis.

NOTE

The aerial platform can be lifted with a forklift from the sides, but Skyjack does not recommend this use, except for Models 92xx that are equipped with designated lifting pockets. See Figure 3-12.

3.10-2 Driving

Before driving the aerial platform:

- Ramp or dock capacity must be sufficient to withstand maximum aerial platform weight.
- Ramp should be equipped with side guards to prevent inadvertent fall from the ramp.
- Incline must not exceed aerial platform gradeability (refer to Table 4.3).
- Aerial platform brake must be checked for proper operation.
- Aerial platform speed must be on high torque setting.

WARNING

When transporting, the aerial platform must be secured to the truck or trailer deck. Tie downs are available as illustrated in Figure 3-10.

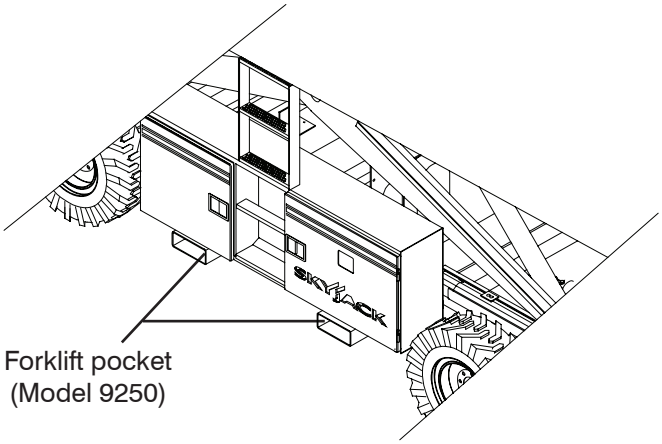


Figure 3-12. Forklift Pockets

3.11 Guardrail Folding Procedure

When folded down, the folding guardrail system reduces the overall height of the retracted aerial platform for transporting only.

WARNING

Any lowered guardrail will create a fall hazard. To avoid falling, remain away from the sides of the platform while raising or lowering the guardrails.

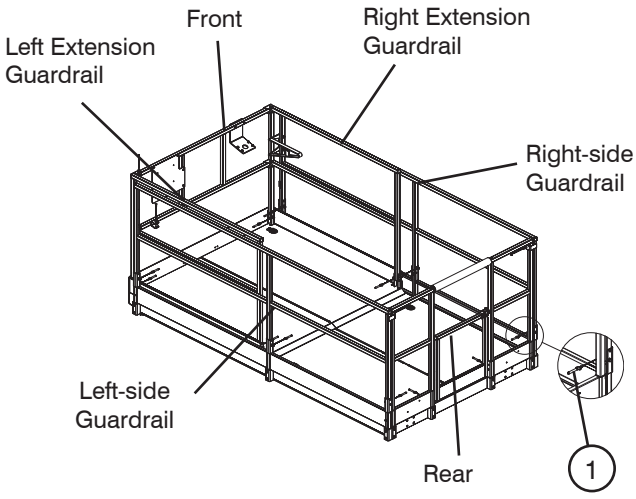


Figure 3-13. Folding Guardrail System

1. **Guardrail Locking Pin with Lanyard** - This pin is used to lock the guardrail in place.

WARNING

Before operating this aerial platform check the guardrail system for loose or missing locking pins. The guardrail system must be upright and all pins must be locked in place. Death or serious injury could result if the guardrail system is not upright or properly locked.

WARNING

The scissor assembly must be fully lowered before raising or lowering the guardrails.

To fold the guardrail system down:

1. Ensure aerial platform is on level ground and all extension platforms are fully retracted.
2. Turn main power disconnect switch to "◯" off position.

WARNING

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

3. Use the ladder of aerial platform to access platform.
4. Close the gate.

WARNING

Any lowered guardrail will create a fall hazard. Remain away from the sides of the platform while raising or lowering the guardrails to avoid falling.

5. Remove the platform control console and outrigger control console (if equipped) and lay it down on the platform.
6. Fold guardrails down in the following order: rear, front, left extension, right extension, left-side and right-side (refer to Figure 3-13).
7. Remove all the locking pins on the rear guardrail and fold the guardrail down.
8. If there is a manual extension, remove all locking pins on the push bar and fold it down.
9. Remove all the locking pins that secured the front guardrail to the left extension guardrail then swing it towards the right extension and lock it in place.
10. Remove all the locking pins on the left extension and fold it down.
11. Remove all the locking pins on the right extension guardrail and fold it down.
12. Remove all the locking pins on the left-side guardrail and fold it down.
13. Remove all the locking pins on the right-side guardrail and fold it down.

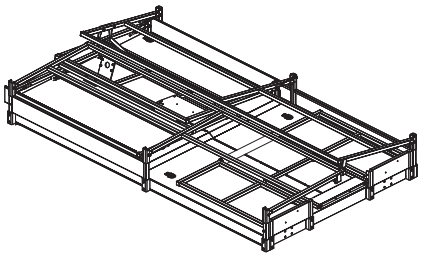


Figure 3-14. All Guardrails Folded Down

To raise the guardrail system up:

WARNING

The scissor assembly must be fully lowered before raising or lowering the guardrails.

1. Ensure aerial platform is on level ground.

2. Turn main power disconnect switch to "◯" off position.

WARNING

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

3. Use the ladder of aerial platform to access platform.

WARNING

Any lowered guardrail will create a fall hazard. Remain away from the sides of the platform while raising or lowering the guardrails to avoid falling.

WARNING

Ensure that the detent ball of each locking pin is all the way through and each spring clip is fully inserted into the pin hole.

4. Raise the guardrails up in the following order: right-side, left-side, right extension, left extension, front and rear.

5. Swing the right-side guardrail up and lock it in place by inserting all locking pins.

6. Swing the left-side guardrail up and lock it in place by inserting all locking pins.

7. Swing the right extension guardrail up and lock it in place by inserting all locking pins on the right extension.

8. Swing the left extension guardrail up and lock it in place by inserting all locking pins.

9. Remove the locking pins and swing the front guardrail forward. Lock it in place by inserting all locking pins.

10. If there is a manual extension, swing push bar up and lock in place by inserting all locking pins.

11. Swing the rear guardrail up then lock it in place by inserting all locking pins.

12. Mount the platform control console and outrigger control console (if equipped) at the front right of the platform. Lock them in place.

WARNING

Before operating this aerial platform check the guardrail system for loose or missing locking pins. The guardrail system must be upright and all pins must be locked in place. Death or serious injury could result if the guardrail system is not upright or properly locked.

3.12 Maintenance Support Procedure

This section provides the operator with procedure regarding deployment and storage of maintenance support.

The maintenance support is a safety mechanism designed to support the scissor assembly. When properly positioned it can support the scissor assembly and empty platform. The maintenance support must be used when inspection and/or maintenance is to be performed within the lifting mechanism.

WARNING

The maintenance support must be used when inspection and/or maintenance or repairs are to be performed within the lifting mechanism. Failure to use this safety mechanism could result in death or serious injury.

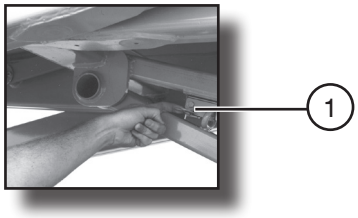


Figure 3-15. Maintenance Support

To Deploy the Maintenance Support

1. Remove all material from platform.
2. Raise platform until there is adequate clearance to swing down maintenance support (item 1).
3. Push latch lever rearward.
4. Swing maintenance support down from storage bracket into a vertical position.
5. Remove hands and arms from scissors area.
6. Lower platform until bottom end of maintenance support contacts the labeled cross bar and scissors are supported by maintenance support.
7. Turn main power disconnect switch to "◯" off position

To Store the Maintenance Support

1. Turn main power disconnect switch to "|" on position.
2. Raise platform until there is adequate clearance to swing up the maintenance support.
3. Swing bar fully up into storage latch.
4. Lower the platform.

WARNING

Do not reach through the scissor assembly when the platform is raised without the maintenance support properly positioned. Failure to avoid this hazard could result in death or serious injury.

Table 4.1 Standard and Optional Features

MODEL	Full-Size RTs		
	8831	8841	9250
STANDARD EQUIPMENT			
Base control	*	*	*
Joystick control	*	*	*
Dual range (torque/speed) selector	*	*	*
Operator horn	*	*	*
Diamond pattern, all steel platform deck construction	*	*	*
Hinged guardrail system	*	*	*
Fall Protection Anchorage(s)	*	*	
Front-mounted manual extension platform			
Front-mounted powered extension platform			
Access ladders and gates at both sides of platform	*	*	*
AC outlet on platform	*	*	*
Self-centering scissors design	*	*	*
Flashing amber beacon	*	*	*
Motion alarm	*	*	*
Cabinets with lockable swing-out door	*	*	*
Hourmeter	*	*	*
Tilt alarm with lift/drive cut-out	*	*	*
Color-coded, numbered wiring system	*	*	*
Engine mounted on roll-out tray	*	*	*
23.1 kW (31 hp) Kubota DF972 dual fuel - gasoline/propane engine	*	*	*
Tie-down points	*	*	*
Grip lug air-filled tires	*	*	*
Grip lug foam-filled tires			
4-wheel drive	*	*	*
Independently operated hydraulic outriggers			*
Spring-applied hydraulically released disc brake system	*	*	
Dual spring-applied hydraulically released parking brakes			*
OPTIONAL EQUIPMENT			
Front-mounted manual extension platform	*	*	
Rear-mounted manual extension platform	*	*	
Front-mounted powered extension platform	*	*	*
Rear-mounted powered extension platform	*	*	*
21.6 kW (29 hp) Kubota D1305 diesel water-cooled engine	*	*	*
Grip lug foam-filled tires	*	*	*
2-wheel drive	*	*	*
Independently operated hydraulic outriggers	*	*	
1500 watt AC Inverter	*	*	*
3500 watt hydraulic AC generator	*	*	*
Positive Air Shutoff	*	*	*

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Table 4.2 Owner's Annual Inspection Record

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

1000AB

This decal is located on the scissor assembly. 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 4.3 Specifications and Features

MODEL		Full Size RTs		
		8831	8841	9250
Weight*		9,670 lb. 4386 kg	10,570 lb. 4794 kg	14,700 lb. 6668 kg
Width		87” 2.21 m		92” 2.34 m
Length		137.5” 3.5 m		176” 4.47 m
Platform Size		68” x 133” 1.73 m x 3.39 m		74” x 168” 1.88 m x 4.27 m
Height	Working	37’ 11.3 m	47’ 14.3 m	56’ 17.1 m
	Platform Elevated	31’ 9.4 m	41’ 12.5 m	50’ 15.2 m
	Platform Lowered	59” 1.5 m	69” 1.75 m	79” 2.01 m
	Drive	Full		30’ 9.1 m
Tires		Please refer to Table 4.7 for tire specification and usage.		
Speed	Normal Drive	3.0 mph 4.8 km/h		2.0 mph 3.2 km/h
	Elevated Drive	0.6 mph 0.97 km/h		
	Raise (Rated Load)	58 sec.	56 sec.	67 sec.
	Lower (Rated Load)	44 sec.	53 sec.	72 sec.
Engine (RPM)	Kubota (Dual Fuel)	1400 (Idle) /2050 (Low) / 3600 (High)		
	Kubota (Diesel)	1400 (Low) / 2800 (High)		
Gradeability		30%		

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* Weights are approximate; refer to serial nameplate for specific weight. Values shown are for standard 4WD machines on air tires with no extension platforms.

Table 4.4 Maximum Platform Capacities (Evenly Distributed)

MODEL		Total		First Extension		Second Extension		Maximum Wind Speed	Tilt Cutout Setting (Degrees)
		Capacity	Number of Occupants	Capacity	Number of Occupants	Capacity	Number of Occupants		
8831	No Extension Platform	2500 lb. 1134 kg	6	Not Available				12.5 m/s	2.5 x 4.5
	One Extension Platform	2000 lb. 908 kg	6	500 lb. 227 kg	2	Not Available			
	Two Extension Platforms	1700 lb. 771 kg	6	500 lb. 227 kg	2	500 lb. 227 kg	2		
8841	No Extension Platform	1700 lb. 771 kg	5	Not Available				12.5 m/s	2.5 x 4.5
	One Extension Platform	1500 lb. 681 kg	5	500 lb. 227 kg	2	Not Available			
	Two Extension Platforms	1500 lb. 681 kg	5	500 lb. 227 kg	2	500 lb. 227 kg	2		
9250	No Extension Platform	2000 lb. 907 kg	5	Not Available				12.5 m/s	2.5 x 4.5
	One Extension Platform	1500 lb. 681 kg	5	500 lb. 227 kg	2	Not Available			
	Two Extension Platforms	1500 lb. 681 kg	5	500 lb. 227 kg	2	500 lb. 227 kg	2		

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NOTE:

Occupants and materials are not to exceed rated load.
Capacities listed are for standard machines equipped with #6 tires.
Refer to capacity label at sides of platform for additional information and for models equipped with options.

Table 4.5 Maximum Platform Capacities (Evenly Distributed with Optional #7 Tires)

MODEL		Total		First Extension		Second Extension		Maximum Wind Speed	Tilt Cutout Setting (Degrees)
		Capacity	Number of Occupants	Capacity	Number of Occupants	Capacity	Number of Occupants		
8831	No Extension Platform	2000 lb. 908 kg	6	Not Available				12.5 m/s	2.5 x 4.5
	One Extension Platform	1700 lb. 771 kg	6	500 lb. 227 kg	2	Not Available			
	Two Extension Platforms	1400 lb. 635 kg	5	500 lb. 227 kg	2	500 lb. 227 kg	2		
8841	No Extension Platform	1250 lb. 567 kg	5	Not Available				12.5 m/s	2.5 x 4.5
	One Extension Platform	1250 lb. 567 kg	5	500 lb. 227 kg	2	Not Available			
	Two Extension Platforms	1250 lb. 567 kg	5	500 lb. 227 kg	2	500 lb. 227 kg	2		
9250	No Extension Platform	1500 lb. 681 kg	5	Not Available				12.5 m/s	2.5 x 4.5
	One Extension Platform	1500 lb. 681 kg	5	500 lb. 227 kg	2	Not Available			
	Two Extension Platforms	1500 lb. 681 kg	5	500 lb. 227 kg	2	500 lb. 227 kg	2		

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NOTE:

Occupants and materials are not to exceed rated load.
Refer to capacity label at sides of platform for additional information and for models equipped with options.

Table 4.6 Floor Loading Pressure

MODEL		Total Aerial Platform Weight		Total Aerial Platform Load					
				WHEEL		LCP **		OUP **	
		lb.	kg	lb.	kg	psi	kPa	psf	kg/m^2
8831	min*	9670	4386	3868	1754	110.9	764.6	148.8	726.4
	max*	13350	6055	5340	2422	125.0	861.8	205.4	1002.9
8831 Outrigger Pads	min*	10540	4781	4216	1912	53.7	370.3	157.1	767.0
	max*	14300	6486	5720	2594	72.9	502.4	213.1	1040.6
8841	min*	10570	4794	4228	1918	114.9	792.2	162.6	794.0
	max*	13830	6273	5532	2509	126.4	871.5	212.8	1038.9
8841 Outrigger Pads	min*	11440	5189	4576	2076	58.3	401.9	170.5	832.5
	max*	14820	6722	5928	2689	75.5	520.7	220.9	1078.4
9250	min*	14700	6668	5880	2667	128.9	888.7	179.5	876.4
	max*	17470	7924	6988	3170	135.6	934.9	213.3	1041.5
9250 Outrigger Pads	min*	14700	6668	5880	2667	74.9	516.4	145.5	710.7
	max*	18410	8351	7364	3340	93.8	646.8	182.3	890.0

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* **min** - Total aerial platform weight with no options
max - Aerial platform weight + all options + capacity

** **LCP** - **Locally Concentrated Pressure** is a measure of how hard the aerial platform presses on the areas in direct contact with the floor. The floor covering (tile, carpet, etc.) must be able to withstand more that the indicated values above.

OUP - **Overall Uniform Pressure** is a measure of the average load the aerial platform imparts on the whole surface directly underneath it. The structure of the operating surface (beams, etc.) must be able to withstand more than the indicated values above.

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.

Floor Loading Pressure

Locally Concentrated Pressure (LCP):

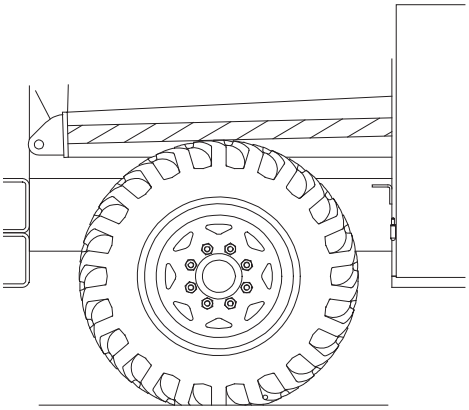
Foot Print Area = Length x Width
$= \pi r^2$

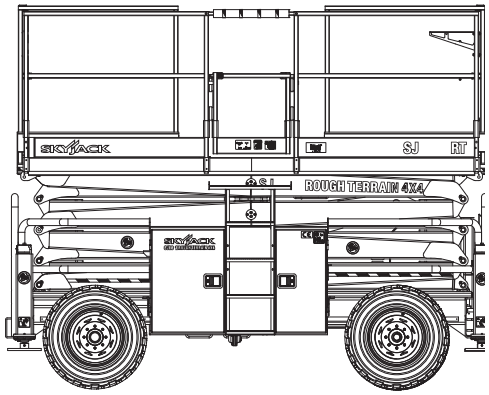
$$LCP = \frac{\text{Weight of Aerial Platform + Capacity}}{\text{Foot Print Area x 4 (Tires)}}$$

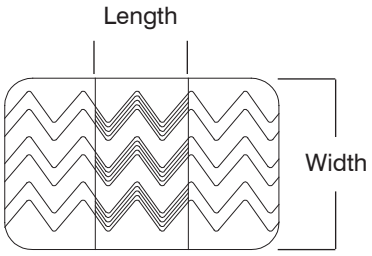
Overall Uniform Pressure (OUP):

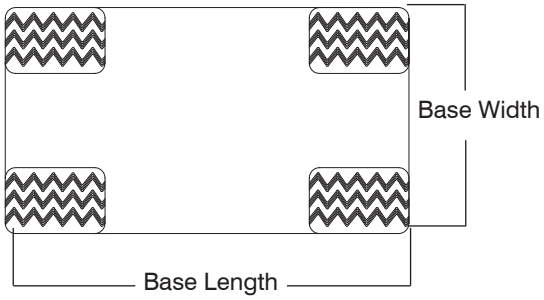
Base Area = Length x Width

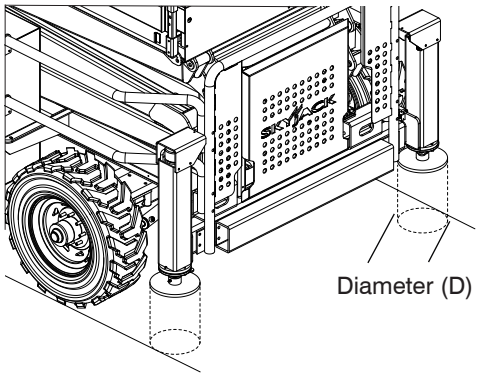
$$OUP = \frac{\text{Weight of Aerial Platform + Capacity}}{\text{Base Area}}$$











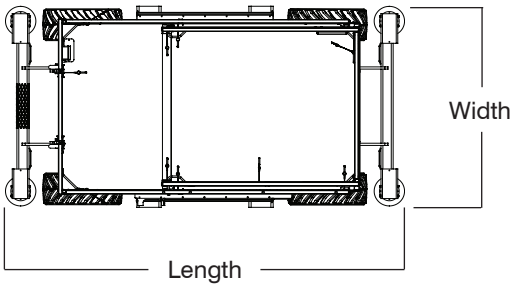


Table 4.7 Tire Specifications

WARNING

Air pressure can affect stability. Temperature changes can affect air pressure. It is important to inspect all tires for proper tire inflation prior to use. Tires must be checked by end user on a daily basis. Tire inflation pressures must be checked weekly with a calibrated gauge. If the measured pressure is less than the specification, reinflate to the pressure specified below. Tires must not be inflated above the recommended specification. Do not intermix tires of different types on one aerial platform. Use only tires of type originally supplied.

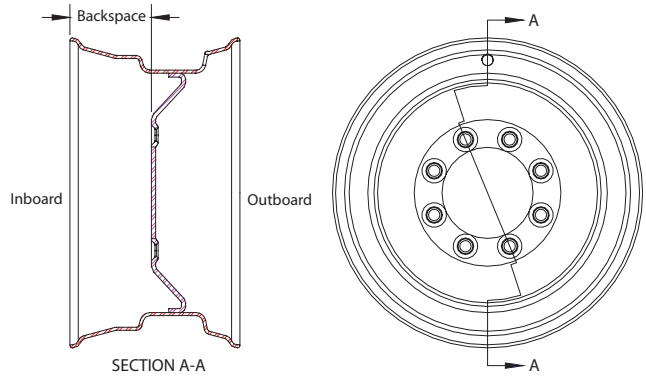
Tire Size		Fill Specification					
		Fill Type	Ply Rating	Pressure (Factory) (kPa)	FULL SIZE		
					8831	8841	9250
#6A	10-16.5 CARLISLE US LOADER	Air	10	75* (517.1)*	S	S	S
#6A	10-16.5 OTR OUTRIGGER (Non-Marking)		10	75* (517.1)*	O	O	O
#7A	31-15.5-15 GOODYEAR TERRA XTRAC		8	45* (310.3)*	O	O	O
#6F	10-16.5 CARLISLE US LOADER	Foam	10	N/A	O	O	O
#6F	10-16.5 OTR OUTRIGGER (Non-Marking)		10	N/A	O	O	O
#7F	31-15.5-15 GOODYEAR TERRA XTRAC		8	N/A	O	O	O

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* Factory preset @ 20°C. **Check pressures regularly as tires can lose pressure over time and over different ambient temperatures even under normal conditions.**

† Usage: (**S**)tandard Or (**O**)ptional
(**N**/**A**) Not Available

Rim Backspace Diagram



Rim Size / Serial Number	Backspace		
	8831	8841	9250
#6 & #6F	4-3/4"	4-3/4"	3-3/4"
	121mm	121mm	95 mm
#7 & #7F	All models are 4-3/8"		

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WARNING

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

General Maintenance

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

Table 4.8 Maintenance and Inspection Schedule

Frequency	Daily	3 months or 150 hours	Yearly
Visual and Daily Maintenance Inspections			
Labels	A		
Electrical	A		
Limit Switches	A		
Hydraulic	A		
Emergency Lowering Access Rod (All models except 9250)	A		
Hydraulic/Electrical Compartment			
Main Power Disconnect Switch	A		
Base Control Switches	A		
Battery	A		
Manifolds	A		
Electrical Panel	A		
Tilt Sensor	A		
Hydraulic Tank (Model 9250)	A		
Hydraulic Oil (Model 9250)	A		
Hydraulic/Fuel Compartment			
Hydraulic Tank (Model 8xxx)	A		
Hydraulic Oil (Model 8xxx)	A		
Fuel Tank	A	**B*†**	
Fuel Leaks	A		
Engine Compartment			
Engine Control Console	A		
Radiator	A		
Muffler and Exhaust	A		
Engine Tray	A		
Hydraulic Pump	A		
Engine Oil Level	A		
Engine Air Filter	A		
Fuel Leaks	A		
Platform Assembly			
Fall Protection Anchorage(s)	A		
AC Outlet on Platform	A		
Platform Control Console	A		
Powered Extension Control Console (If Equipped)	A		
Lifting Mechanism			
Sliders	A		
Maintenance Support	A		
Scissor Assembly	A		
Scissor Bumpers	A		
Lift Cylinder(s)	A		
Base			
Base Weldment	A		
Wheel/Tire Assembly	A	**B*†**	
Drive Axle	A		
Steer Cylinder Assembly	A		
Tie Rod	A		
Ladder	A		
Outriggers (If Equipped)	A		
Manuals	A		
Function Tests			
Platform Control Console			
Test Emergency Stop	A		
Test Lift Enable	A		
Test Platform Raising/Lowering	A		
Test Enable Trigger Switch	A		
Test Steering	A		
Test Horn	A		
Test Driving	A		
Test Brake	A		
Test Speed Limit	A		
Test Powerdeck Enable (If Equipped)	A	**B*†**	
Test Extension Platform(s) (If Equipped)	A		
Base Control Console			
Test Emergency Stop	A		
Test Base Lift Enable	A		
Test Lower/Neutral/Raise Switch	A		
Test Emergency Lowering (Model 88xx)	A		
Test Emergency Lowering (Model 9250)	A		
Test Positive Air Shutoff (If Equipped)	A		
Test Main Power Disconnect Switch	A		
Test Outriggers (If Equipped)	A		

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A - Perform Visual and Daily Maintenance Inspections & Functions Test. Refer to Section 2.3 and Section 2.4 of this manual.
B - Perform Scheduled Maintenance Inspection. Refer to Service & Maintenance manual.
***** - Maintenance must be performed only by trained and competent personnel who are familiar with mechanical procedures.
† - Refer to Skyjack's website @ www.skyjack.com for latest service bulletins prior to performing quarterly or yearly inspection.

WARNING

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

Table 4.9 Operator's Checklist

SKYJACK

OPERATOR'S CHECKLIST

Serial Number: _____

Model: _____

Hourmeter Reading: _____ Operator's Name (Printed): _____

Date: _____

Time: _____ Operator's Signature: _____

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

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

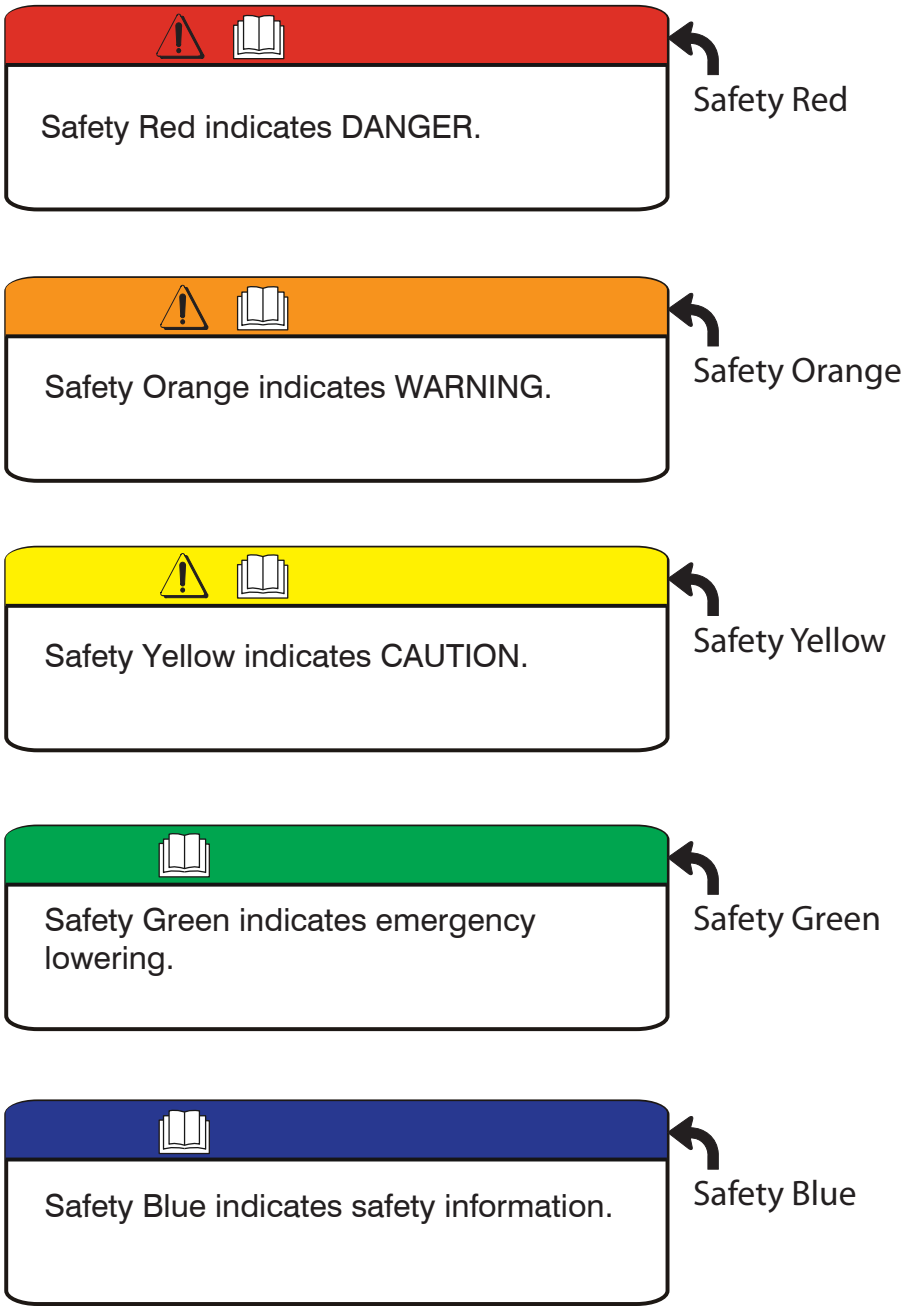
INSPECTION FREQUENCY
❑ FREQUENTLY
❑ DAILY
❑ ANNUALLY
❑ BI-ANNUALLY

	N/A	P	F	R
Visual and Daily Maintenance Inspections				
Labels				
Electrical				
Limit Switches				
Hydraulic				
Emergency Lowering Access Rod (All Models Except 9250)				
Hydraulic/Electrical Compartment				
Main Power Disconnect Switch				
Base Control Switches				
Battery				
Manifolds				
Electrical Panel				
Tilt Sensor				
Hydraulic Tank (Model 9250)				
Hydraulic Oil (Model 9250)				
Hydraulic/Fuel Compartment				
Hydraulic Tank (Model 88xx)				
Hydraulic Oil (Model 88xx)				
Fuel Tank				
Fuel Leaks				
Engine Compartment				
Engine Control Console				
Radiator				
Muffler and Exhaust				
Engine Tray				
Hydraulic Pump				
Engine Oil Level				
Engine Air Filter				
Fuel Leaks				
Platform Assembly				
Fall Protection Anchorage(s)				
AC Outlet on Platform				
Platform Control Console				
Powered Extension Control Console (If Equipped)				
Lifting Mechanism				
Sliders				
Maintenance Support				
Scissor Assembly				
Scissor Bumpers				
Lift Cylinder(s)				
Base				
Base Weldment				
Wheel/Tire Assembly				
Drive Axle				
Steer Cylinder Assembly				
Tie Rod				
Ladder				
Outriggers (If Equipped)				
Manuals				
Function Tests				
Platform Control Console				
Test Emergency Stop				
Test Lift Enable				
Test Platform Raising/Lowering				
Test Enable Trigger Switch				
Test Steering				
Test Horn				
Test Driving				
Test Brake				
Test Speed Limit				
Test Powerdeck Enable (If Equipped)				
Test Extension Platform(s) (If Equipped)				
Base Control Console				
Test Emergency Stop				
Test Base Lift Enable				
Test Lower/Neutral/Raise Switch				
Test Emergency Lowering (Model 88xx)				
Test Emergency Lowering (Model 9250)				
Test Positive Air Shutoff (If Equipped)				
Test Main Power Disconnect Switch				
Test Outriggers (If Equipped)				

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

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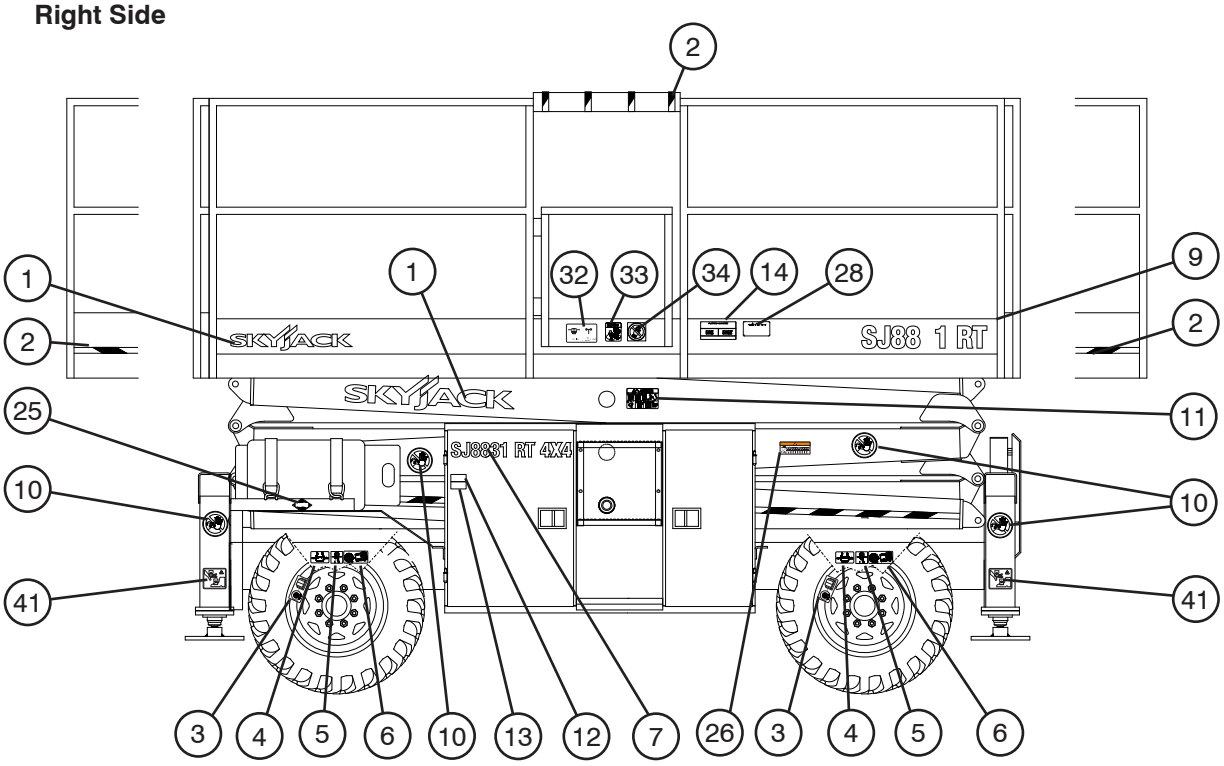
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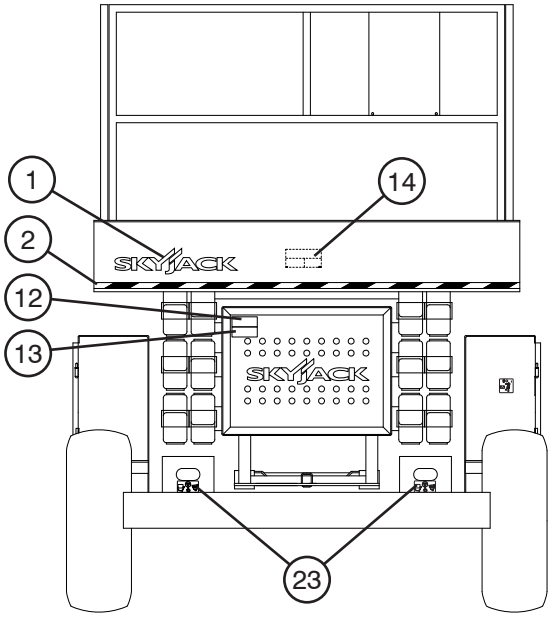
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Models 8831 & 8841

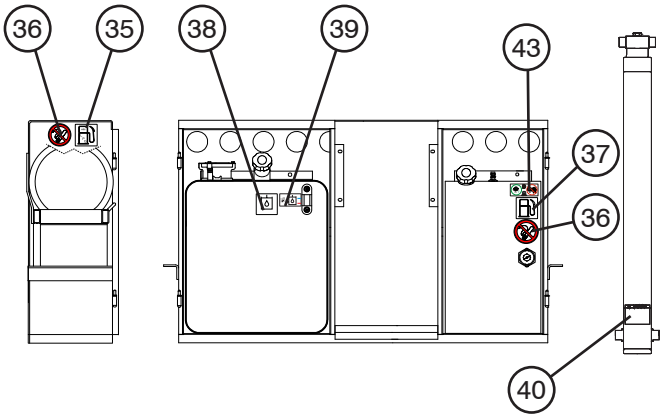
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Front Side

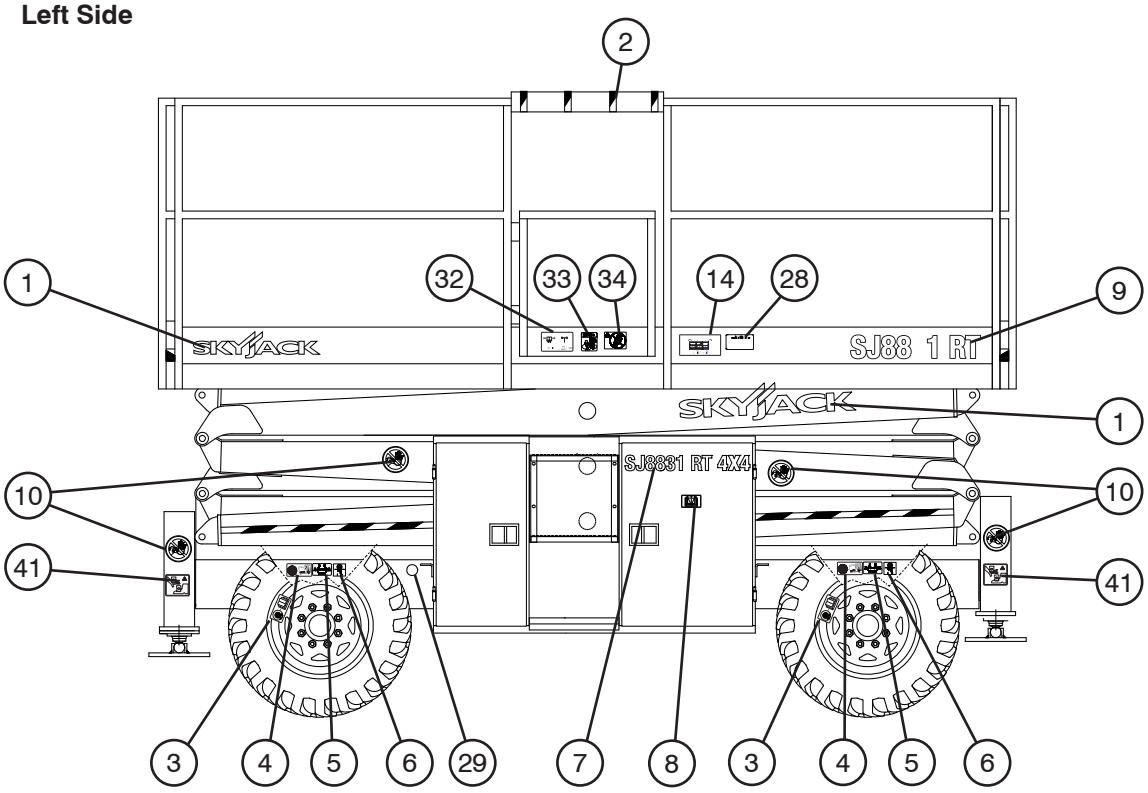


Hydraulic/Fuel Compartment

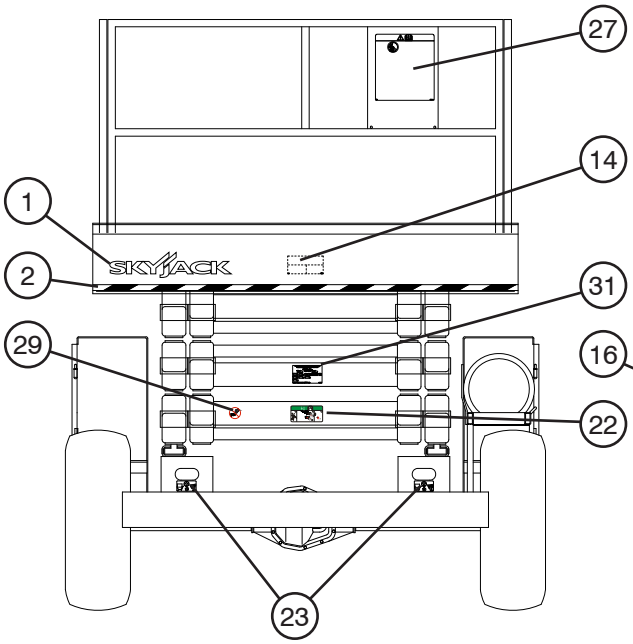


Cylinder

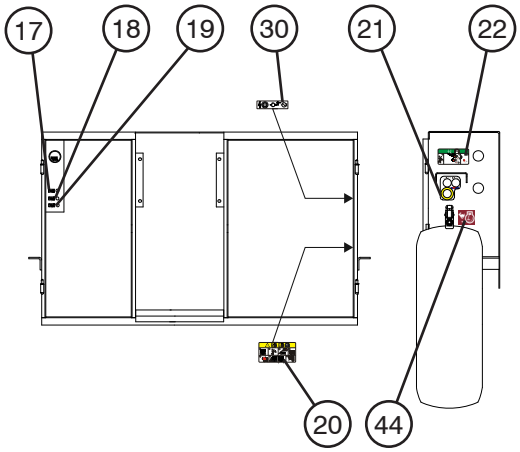
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Back Side

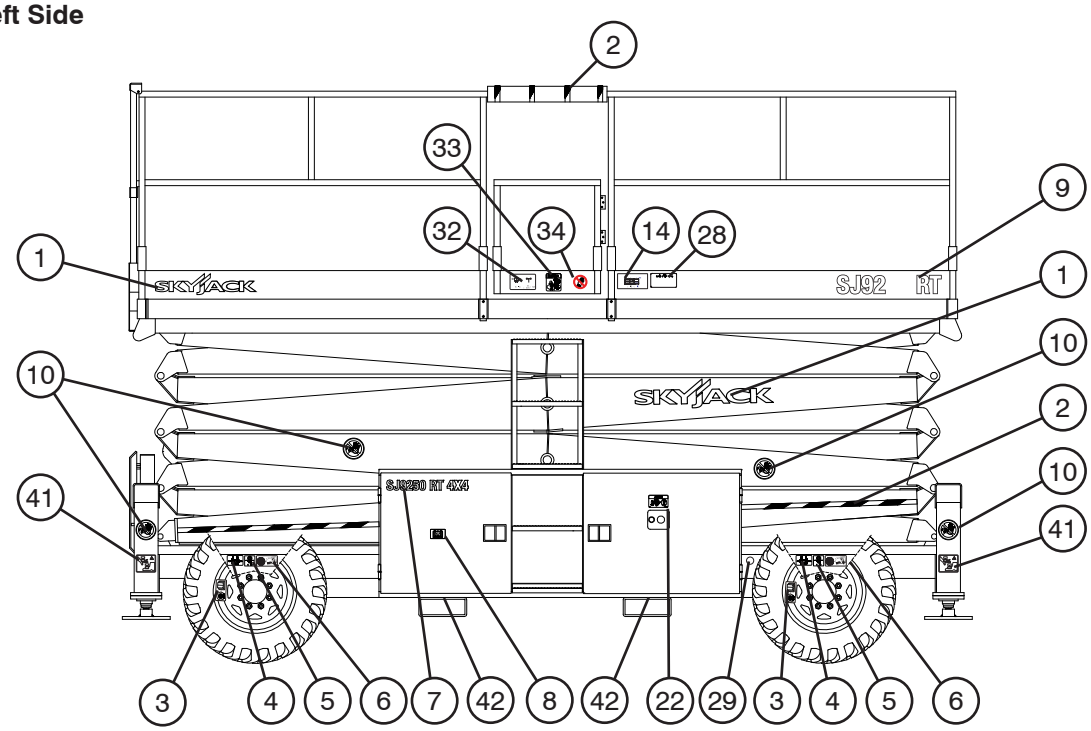


Electrical Panel and Hydraulic/Fuel Compartment

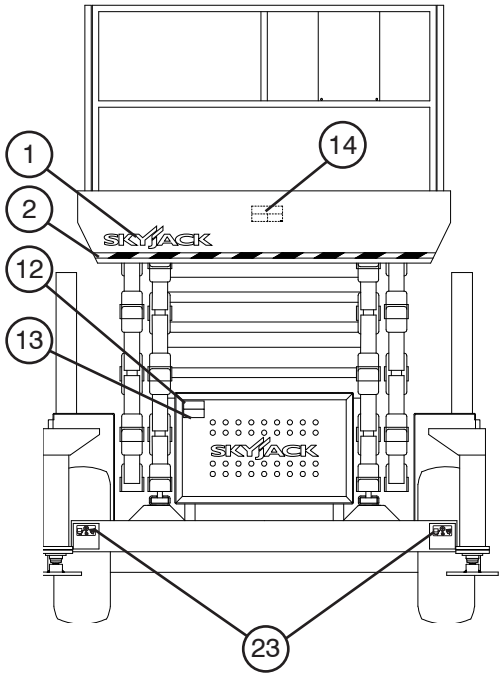


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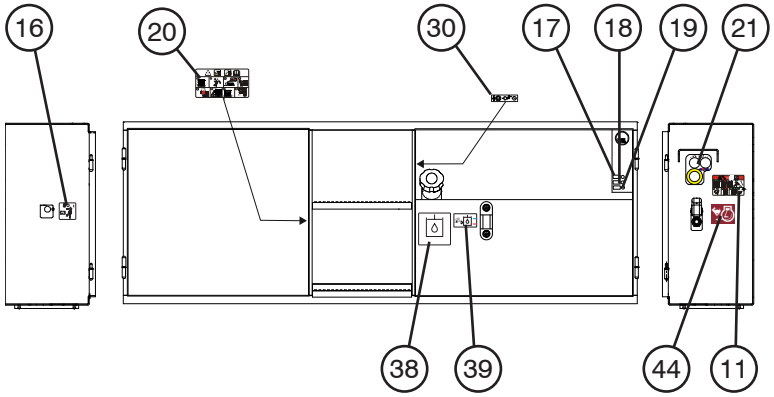
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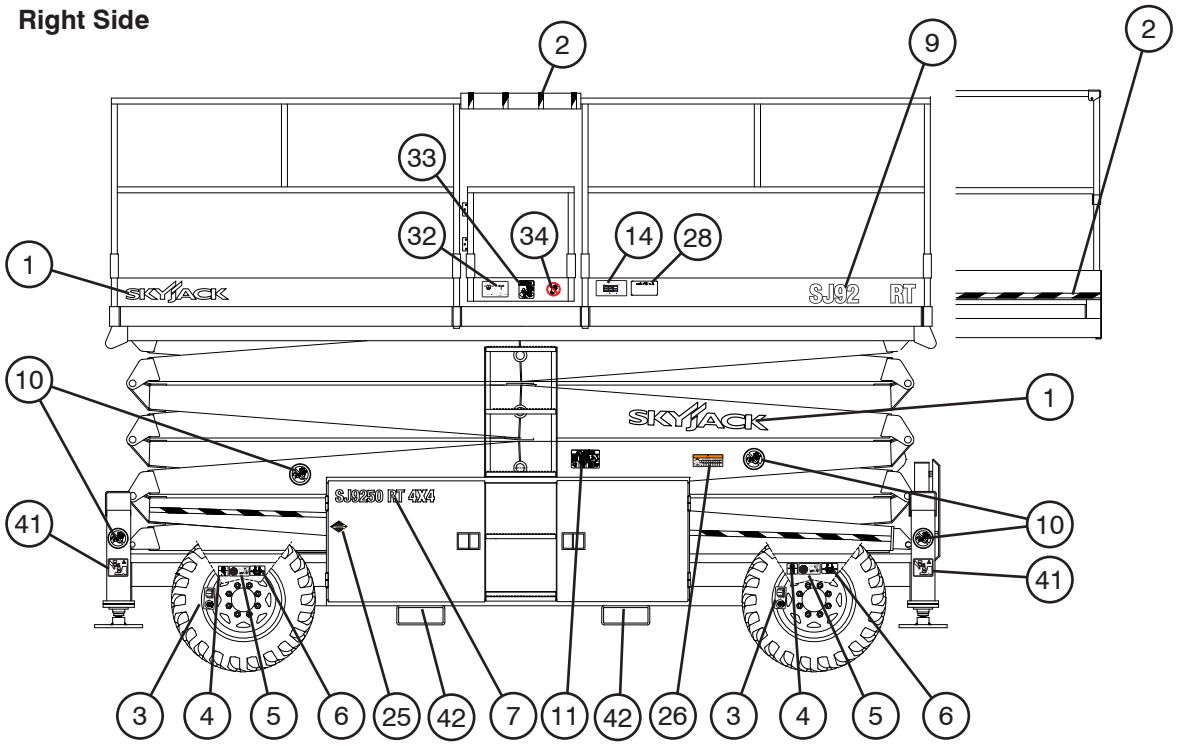
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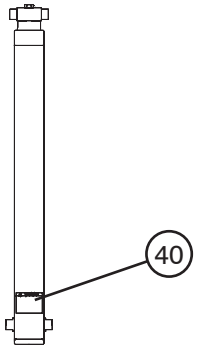
Electrical Panel and Hydraulic/Fuel Compartment



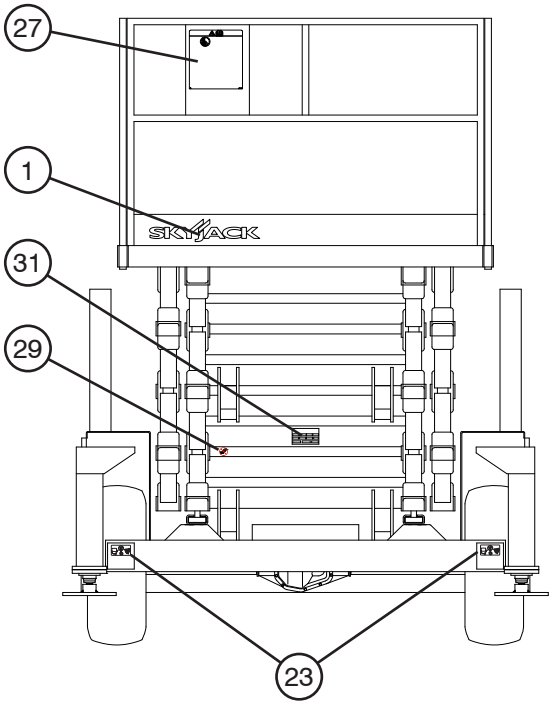
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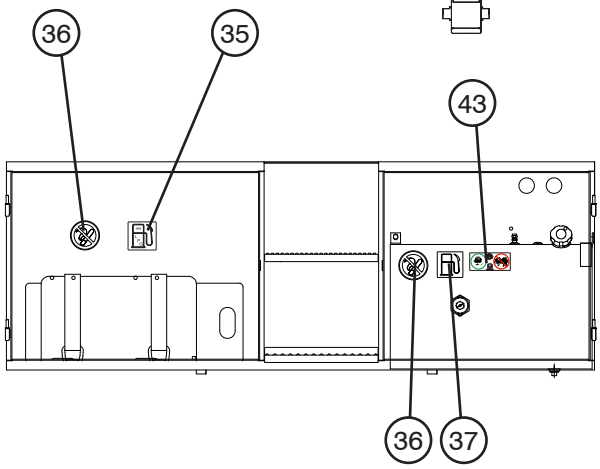
Cylinder

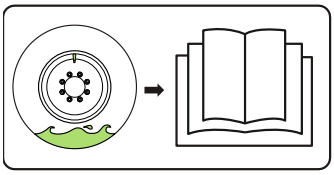
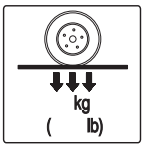
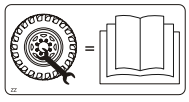
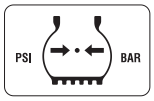


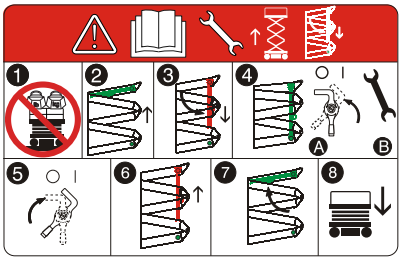
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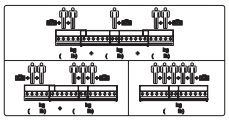
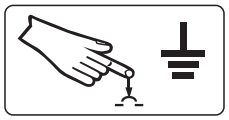
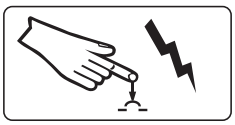
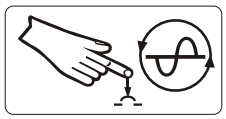


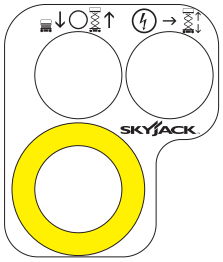
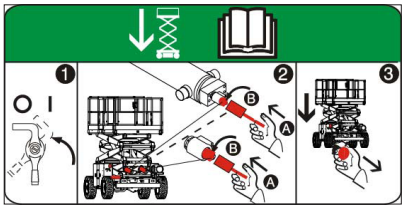
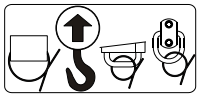
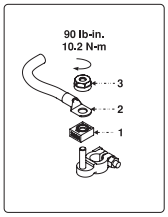
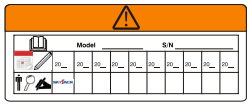
Fuel Compartment

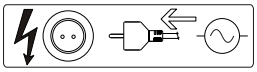
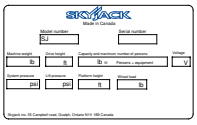
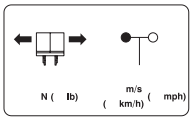
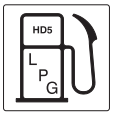


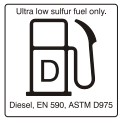
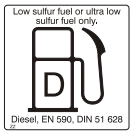
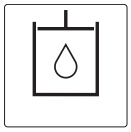
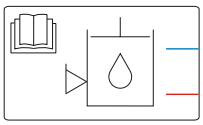
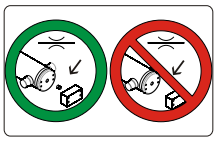
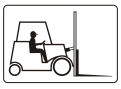
No.	Label Pictorial	Description
1	SKYJACK	**Skyjack Logo** Skyjack
2		**Caution Tape Stripe** Caution stripe
3		**Tire Sealant (If Equipped)** Indicates that tire sealant is present inside the tires.
4		**Wheel Load*** Indicates rated wheel load. *Wheel load will vary with each model.
5		**Wheel Specifications** Refer to manual for wheel type, offset, pressure and torque.
6		**Tire Pressure*** Inflate tire to indicated pressure. *Note: Tire pressure changes with varying units.
7	SJ8831 RT 4X4	**Model Number*** Product Identifier *Model number will vary, may not be as shown.
8		**Manual Storage Box** Indicates location of operating manual.

No.	Label Pictorial	Description
9	SJ8841 RT	**Model Number*** Product Identifier *Model number will vary, may not be as shown.
10		**Keep Clear** Keep clear. Stay away from aerial platform when in operation.
11		**How to engage maintenance support for inspection or maintenance.** Refer to operating manual. 1. Remove all material from platform. 2. Raise platform until there is adequate clearance to swing down maintenance support. 3. Swing maintenance support down from storage bracket into a vertical position. Lower platform until the bottom end of maintenance support rests on the lower cross bar. 4. Maintenance support is now secured. (A) Turn main power disconnect switch to off position. (B) Perform inspection/maintenance. 5. Turn main power disconnect switch to on position. 6. Raise platform until there is adequate clearance to swing up maintenance support. 7. Swing maintenance support up and place into storage bracket. 8. Ensure platform is fully lowered.
12		**Battery Warmer/Hydraulic Oil Heater (If Equipped)** Do not leave heaters plugged in for longer than 12 hours consecutively.
13		**Battery Warmer/Hydraulic Oil Heater (If Equipped)** Do not use heaters if temperature is above freezing.

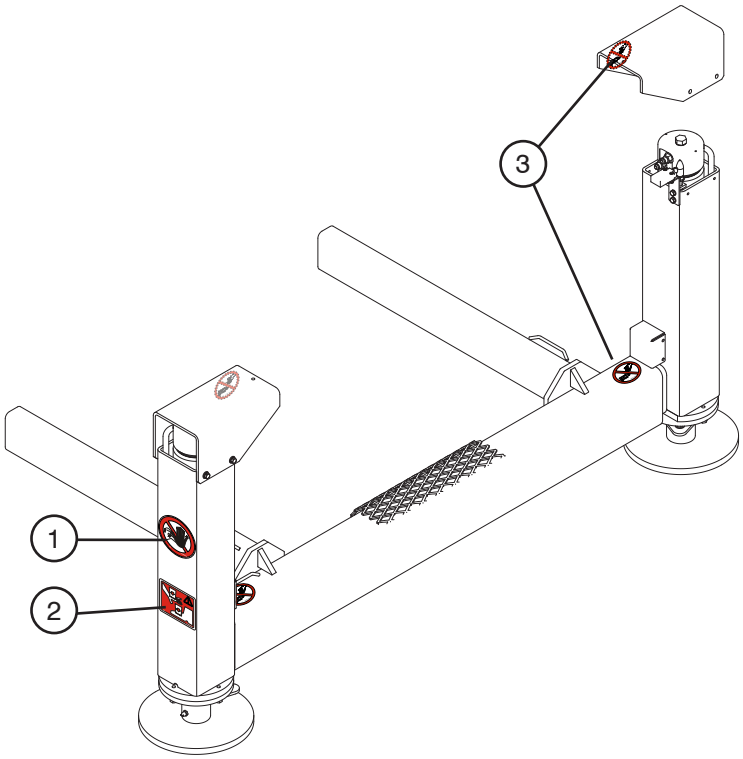
No.	Label Pictorial	Description
14		**Platform Capacity*** Rated work load in each configuration is as shown. *Platform capacity varies over different aerial platforms.
15		**No Step** WARNING! Do not step in this location.
16		**Main Power Disconnect** Rotate clockwise to turn on main power; rotate counterclockwise to turn off main power; insert padlock to lock in position.
17		**Ground Circuit Breaker** Push to reset ground circuit breaker.
18		**Power Circuit Breaker** Push to reset power circuit breaker.
19		**Generator Circuit Breaker (If Equipped)** Push to reset generator circuit breaker.
20		**Winching/Towing/Pushing Procedure** Refer to operating manual. 1. Block or chock wheels to prevent aerial platform from rolling. 2. Turn main power disconnect switch to off position. 3. Locate brake valve, pump and lever. 4. Attach lever and push in black knob. 5. Pump lever 1-3 times. Brake is now released. 6. Push/tow/winch to desired location. 7. Block or chock wheels to prevent aerial platform from rolling. 8. Reengage brake by pulling out brake valve plunger. Remove brake lever and secure in clips.

No.	Label Pictorial	Description
21		**Base Controls** Select "↓" to lower or "↑" raise platform. Select " ϟ → " to enable lift. Push "●" to disable controls.
22		**Emergency Lowering Procedure** Refer to operating manual. 1. Turn main power disconnect switch to off position. 2. To open the lift cylinder holding valves located at the bottom of each cylinder: if higher reach required, use emergency lowering rod located on the top of the base to: (A) push (B) turn knurled knob counterclockwise. 3. To lower the platform, pull out emergency lowering valve located on the outside of the hydraulic tray.
23	 	**Lift and Tie Down Points** Only use these points for lifting or tying down.
24		**Fuse Location** Fuse location
25		**Propane** Indicates propane storage location.
26		**Annual Inspection** Ensure that work platform has received annual inspection prior to operation.

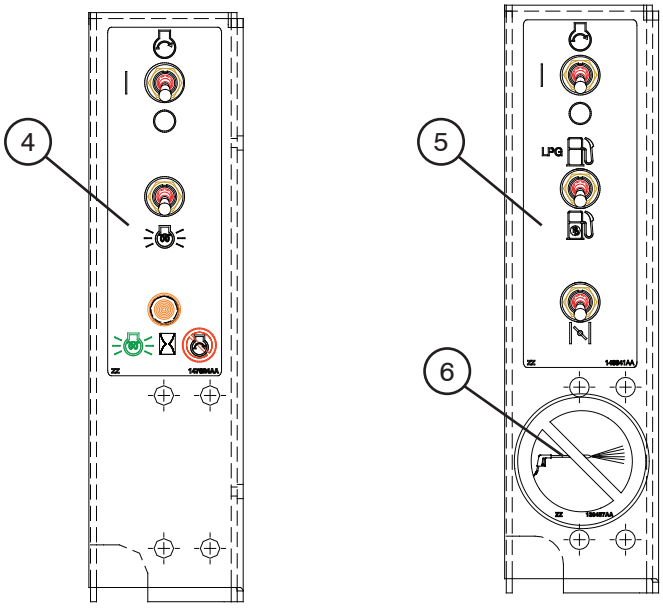
No.	Label Pictorial	Description
27		**Hazard Identification** Refer to Section 1: Safety Rules. Read and understand the outlined risks associated with this work platform prior to operation.
28		**Warning - California Proposition 65** Cancer and Reproductive Harm- https://www.p65warnings.ca.gov/.
29		**Warning - Do Not Alter** Do not alter or disable limit switches or other safety devices.
30		**Connect Platform AC Supply** Connect AC power supply here for platform accessory outlet.
31		**Serial Plate*** Product identification and specifications *Serial plate will vary over different aerial platforms.
32		**Horizontal Load Rating*** Apply no more than the indicated side load. Operate below indicated wind speed only. *Rating will change over varying units.
33		**Operator's Daily Inspection** Refer to the operating manual. Perform visual inspection and function tests at the beginning of each shift. Refer to Table 4.8 Maintenance and Inspection Schedule.
34		**No Jewelry** Caution. Do not wear jewelry.
35		**Liquid Propane** Use liquid propane only.

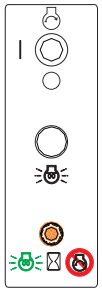
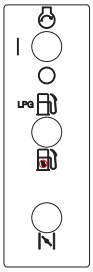
No.	Label Pictorial	Description
36		**No Smoking** Do not smoke near this location.
37	 	**Diesel Ultra Low Sulfur Only** Diesel Ultra Low Sulfur Only **Diesel** Use low sulfur fuel or ultra low sulfur fuel only.
		**Unleaded Fuel** Use unleaded gasoline only.
38		**Hydraulic Oil ATF Dexron III** Replace hydraulic fluid with ATF Dexron III only.
39		**Hydraulic Oil Level** Indicates minimum/maximum oil level.
40		**Orifice Installed** Orifice installation warning
41		**Crushing Hazard** Danger - crushing hazard
42		**Forklift Pocket** Insert fork fully into pocket to lift aerial platform.
43		**Open Fuel Cap Slowly** Refer to Operating manual. Open fuel cap slowly to prevent fuel from spraying out of fuel tank.
44		**Positive Air Shutoff (If Equipped)** Use this switch to trigger the positive air shutoff valve.

Outriggers

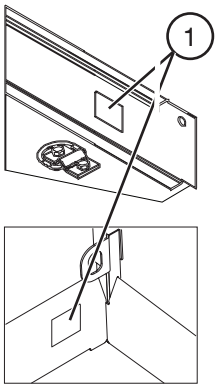


Engine Control Console

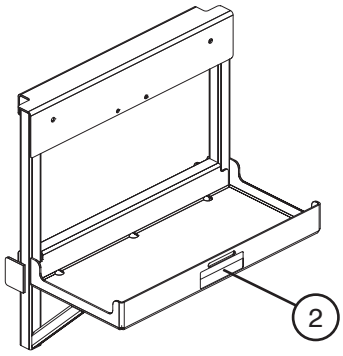


No.	Label Pictorial	Description
1		**Keep Clear** Stay away from aerial platform when in operation.
2		**Crushing Hazard** Danger - crushing hazard
3		**Warning - Do Not Alter** Do not alter or disable limit switches or other safety devices.
4		**Engine Control - Kubota Diesel** Select “ ” to start, “	” run or “ ” stop engine. Select “ ” to energize glow plugs. Do not start engine “ ”. Red lamp “ ” illuminates until the glow plugs have completed the timed heating cycle. When the lamp goes out, the engine is ready to be started.
5		**Engine Control - Kubota Dual Fuel** Select “ ” to start, “	” run or “ ” stop engine. Select “ ” liquid petroleum or “ ” unleaded gas. Select “ ” to operate choke.
6		**No Pressure Washer** Do not use pressure washer.

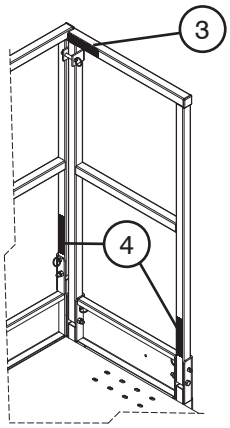
Fall Protection Anchorage



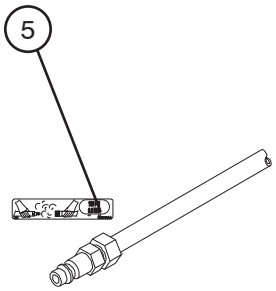
Welder Tray



Railing Pins

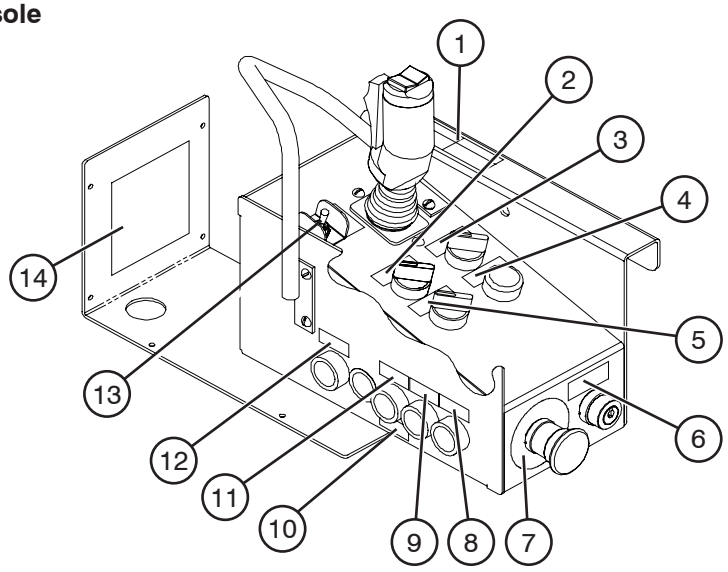


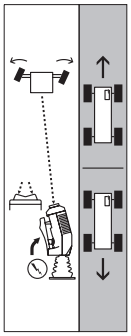
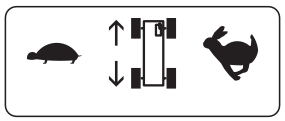
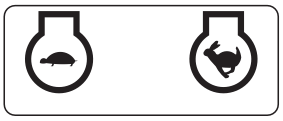
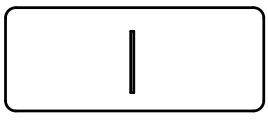
Air Line to Platform

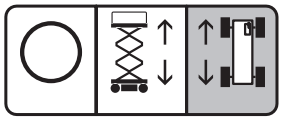
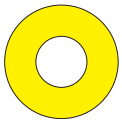
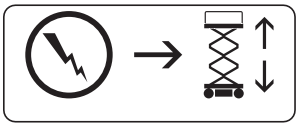
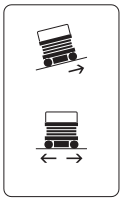
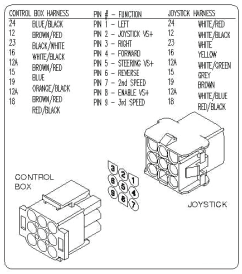


No.	Label Pictorial	Description
1		**Fall Protection Anchorage** Rated for one (1) person per anchorage.
2		**Welder Mounting Location** Welder and tray must be located within boundary of guard rails. Tray must be mounted on midrail and one vertical post to restrict movement.
3		**Falling Hazard - Railing Pins (Horizontal) (If Equipped)** WARNING! Falling Hazard. Make sure hinged railing is pinned properly.
4		**Falling Hazard - Railing Pins (Vertical) (If Equipped)** WARNING! Falling Hazard. Make sure hinged railing is pinned properly.
5		**Connect Air Supply (If Equipped)** Connect platform air supply here.

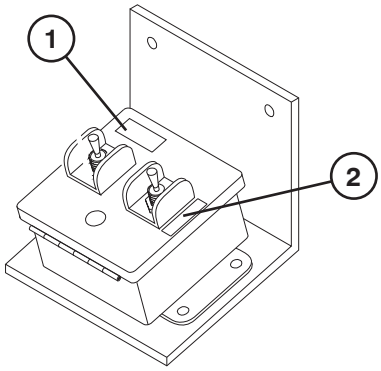
Platform Control Console

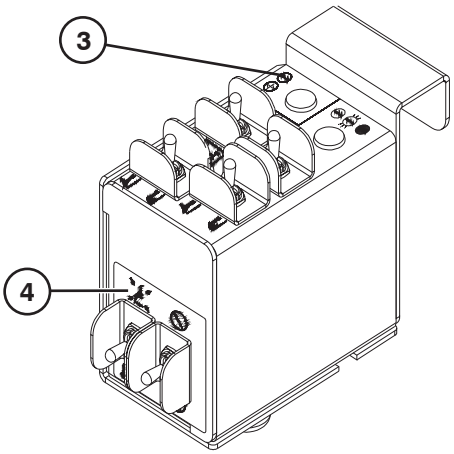


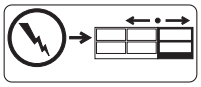
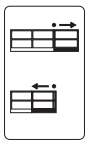
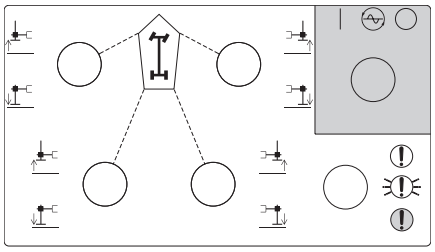
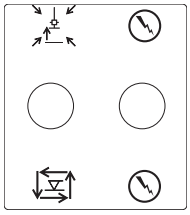
No.	Label Pictorial	Description
1		**Controller Operation** Squeeze "" trigger to enable controller. Operate "" rocker switch to steer. Move controller forward "" to drive forward or backward "" to drive reverse..
2		**Low/High Speed Range** Select " " for low speed (high torque) or " " high speed (low torque).
3		**Low/High Throttle** Select "" low or " " high engine speeds.
4		**Power On Indicator** Continuous illumination indicates upper control availability.
5		**Raise/Off/Lower Platform** Select "" to raise the platform, "" to turn power off or "" to lower the platform.

No.	Label Pictorial	Description
6		**Off/Lift/Drive** Select "◯" off, "↕" lift or "↕" drive mode.
7		**Emergency Stop** Push to disable controls
8		**Lift Enable** Select to enable lift mode.
9		**Start Engine** Select to start engine.
10		**Glow Plug** Select to activate glow plugs.
11		**Choke** Select to operate choke.
12		**Horn** Select to sound horn.
13		**Low/High Torque** Select "" low speed (high torque) or "" high speed (low torque).
14		**Controller Connector Pinout** Controller connector pinout

Auxiliary Control Consoles





No.	Label Pictorial	Description
1		**Powered Extension Platform Enable** Select to enable powered extension platform controls.
2		**Powered Extension Platform Extend/Retract** Select “ ” to extend or “ ” to retract powered extension platform.
3		**Outrigger Controls with Generator** Select “ ” to retract or “ ” to extend for each outrigger. Select “ ” to enable or “ ” disable generator. Indicates leveling system status: **Off:** The outriggers are fully retracted. **Flashing Rapidly:** The outriggers are extending or retracting. **Flashing:** Not all outrigger legs have firm ground contact or aerial platform is not level. **On:** The outriggers are extended and the platform is level.
4		**Automatic Outrigger Controls** Select “ ” to retract all outriggers or “ ” to extend all outriggers with automatic leveling. Select “ ” to enable manual or automatic outrigger controls.

6.0 Skyjack Features

Your Skyjack machine may be equipped with the following features:

SKYCODED™

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

AXLDRIVE™

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

ACCESSORYZERS™

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


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



www.skyjack.com