

## OPERATING MANUAL (ANSI/CSA) **TELESCOPIC BOOMS** MODELS SJ40T SJ45T SJ61T SJ66T

169269AF-A August 2016



### This manual is based on Serial Number(s):

SJ40T	SJ45T	98 001 331 - 98 001 7	66
SJ61T	SJ66T	97 001 136 – 97 001 8	32

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.

4 Coates Place Wetherill Park New South Wales 2164 Australia Tel: +61 (0) 28786 3200 Fax: +61(0) 28786 3222

#### 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.

## 1 DANGER

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

## N WARNING

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



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

#### IMPORTANT

IMPORTANT indicates a procedure essential for safe operation and which, if not followed, may result in a malfunction or damage to the aerial platfor42



Page 3

### **Table of Contents**

Section 1 - Ab	out Your Aerial Platform	5
	leed	
	S	
,		
Section 2 - Far	niliarization	
2.1	Familiarization of Telescopic Boom Series	
2.2	Component Identification	14
2.3	Visual & Daily Maintenance Inspections	
2.4	Function Tests	
2.5	Winching and Towing Procedure	
2.6	Emergency Lowering Procedures	41
Section 3 - Op	eration	
3.1	General	
3.2	Major Components	
3.3	Major Assemblies	
3.4	Serial Number Nameplate	
3.5	Component Identification	
3.6	Component Identification (Optional Equipment/Attachments)	
3.7	Operator's Responsibility	
3.8	Start Operation	51
3.9	Refueling Procedure	
3.10	Loading/Unloading	
3.11	Chassis Tilt	
Section 4 - Tab	les	
Table 4.1	Standard and Optional Features	
Table 4.2a	Specifications and Features	70
Table 4.2b	Specifications and Features	71
Table 4.3	Öwner's Annual Inspection Record	
Table 4.4	Maximum Platform Capacities	
Table 4.5	Tire/Wheel Specifications	
Table 4.6	Floor Loading Pressure	
Table 4.7	Maintenance and Inspection Schedule	
Table 4.8	Operator's Checklist	
Section 5 - Lak	oels	77



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

#### **Aerial Platform Definition**

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

#### **Purpose of Equipment**

The SKYJACK Telescopic Boom Series (Models SJ 40T, SJ 45T, 61T & 66T) aerial platform is designed to transport and raise personnel, tools and materials to overhead work areas.

#### **Use of Equipment**

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

#### Manual

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

#### Operator

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

#### Service Policy and Warranty

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

#### **Optional Accessories**

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

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

- 🖀 : 800 275-9522
- ≞ : 630 262-0006

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

#### Scope of this Manual

- **a.** This manual applies to the ANSI/SIA and CSA versions of the Telescopic Boom aerial platform models listed on Table 4.1.
  - Equipment identified with "ANSI" meets the ANSI/SIA A92.5-2006 standard.
  - Equipment identified with "CSA" meets the CSA B354.4-02 standard.

#### b. CSA (Canada)

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

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

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



### 🕂 WARNING

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

#### **Operator Safety Reminders**

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

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

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

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

SKYIACK Page 6

#### **Electrocution Hazard**

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

#### Per ANSI A92.5-2006 8.10(7)

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

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

#### As per CSA B354.4-02

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

Refer to CFR 1910.333 or the authority having jurisdiction.

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





#### 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 WI	LL RESULT IN DEATH OR SERIOUS INJURY!

60023AD-ANSI

#### **Safety Precautions**

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

## <u> (</u>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 disconnects witch "O" off when leaving the aerial platform unattended. Remove the key to prevent unauthorized use of the aerial platform.
- WEAR all the protective clothing and personal safety devices issued to you or called for by job conditions.
- **DO NOT** wear loose clothing, dangling neckties, scarves, rings, wristwatches or other jewelry while operating this aerial platform.



• **AVOID** entanglement with ropes, cords or hoses.



• **AVOID** falling. Stay within the boundaries of the guardrails.



• **DO NOT** raise the platform in windy or gusty conditions.



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



- **DO NOT** elevate the aerial platform if it is not on a firm, level surface.
- DO NOT drive elevated near depressions or holes of any type, loading docks, debris, drop-offs and surfaces that may affect the stability of the aerial platform.



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



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

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



- **DO NOT** drive elevated on a soft or uneven surface.
- DO NOT ascend or descend a grade steeper than 50% (2WD & 4WD). Boom elevated driving must only be done on firm level surfaces.







#### Safety Precautions (Continued)

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

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



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



- DO NOT climb on boom arm assembly. It is prohibited.
- **DO NOT** sit, stand or climb on the guardrails. It is prohibited.
- AVOID overhead obstructions. Be aware of overhead obstructions or other possible hazards around 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.



- **BE AWARE** of blind spots when operating the aerial platform.
- ENSURE that there are no personnel or obstructions in the path of travel, including blind spots.
- **DO NOT** lower the platform unless the area below is clear of personnel and obstructions.
- **DO NOT** use boom to push, pull other objects or to lift the chassis.
- DO NOT raise the aerial platform while it is on a truck, forklift or other device or vehicle.



- **STUNT** driving and horseplay are prohibited.
- **DO NOT** use with improperly inflated/damaged tires or wheels. Refer to Section 2: Wheel/Tire Assembly.



- DO NOT alter or disable limit switches or other safety devices.
- **DO NOT** use the aerial platform without guardrails, locking pins and the entry gate in place.



#### Safety Precautions (Continued)

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

 DO NOT exceed the rated capacity of the aerial platform.



 DO NOT distribute load unevenly.



- **DO NOT** use under influence of alcohol or drugs.
- **DO NOT** attempt to free a snagged platform with lower controls until personnel are removed from the platform.

- **DO NOT** position the 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.
- 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.





#### Safety Precautions (Continued)

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

#### **Fall Protection**

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

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

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

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

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

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

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

## <u> (</u>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.



#### An operator should not use any aerial platform that:

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

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

#### **Jobsite Inspection**

- Do not use in hazardous locations.
- 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

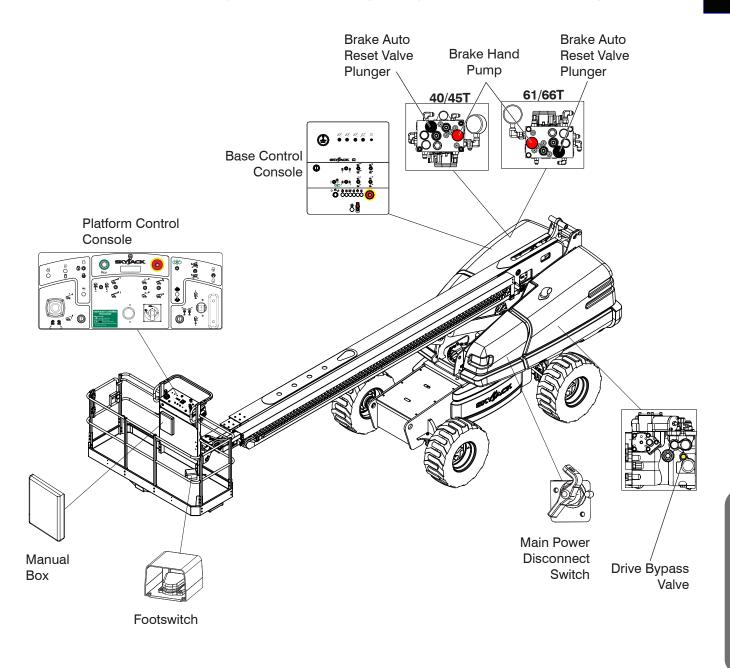
SKYJACK Page 12

#### 2.1 Familiarization of Telescopic Boom Series

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.



Page 13

#### 2.2 Component Identification

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

#### 2.2-1 Drive Bypass Valve

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

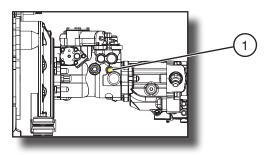


Figure 2-1. Drive Bypass Valve

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

#### 2.2-2 Main Power Disconnect Switch

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

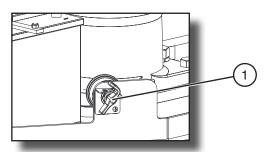


Figure 2-2. Main Power Disconnect Switch

1. Main Power Disconnect Switch - This switch, when in "O" off position, disconnects power to all circuits. Switch must be in "I" on position to operate any circuit. Turn switch "O" off when transporting aerial platform.

#### 2.2-3 Brake System

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

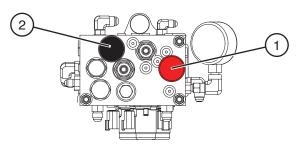


Figure 2-3a. Brake System - SJ40/45T

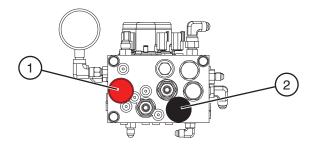


Figure 2-3b. Brake System - SJ61/66T

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



SJ 40T & SJ 45T SJ 61T & SJ 66T

#### 2.2-4 Tilt Switch

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

## 

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

#### 2.2-5 Differential Lock Switch

This switch is located on the platform control console. The differential locking system provides more traction by providing equal drive to each wheel regardless of traction. Differential locks are used to prevent from getting stuck when driving on loose, muddy, or rocky terrain. Refer to Section 2.4-3 for instruction regarding testing differential lock switch.

## 

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

#### 2.2-6 Footswitch

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

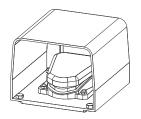


Figure 2-4. Footswitch

#### NOTE

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



#### 2.2-7 Base Control Console

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

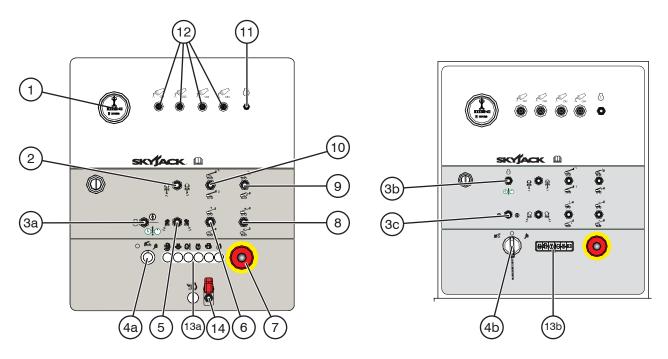


Figure 2-5. Base Control Console

- 1. Hourmeter - This gauge records accumulated operating time of engine.
- Platform Rotation Switch This switch controls 2. \* " left or " \$" right rotation of platform.
- Start/Function Enable/Emergency Power 3a. Switch - This momentary switch, when held in "O" start position, starts engine. When held in "(1)" function enable position, allows base control functions to operate. Engine speed increases when selected. With engine off, and when held in "()"" emergency power unit position, allows base control functions to operate using emergency power unit.
- Start/Emergency Power Switch This switch "O" b. starts engine or "" enables emergency power unit.
- Function Enable Switch When held in either C. direction, this momentary switch "(1)" allows base control functions to operate.

- Off/Base/Platform Key Switch This three-way 4a. selector switch allows operator to "O" turn off power to aerial platform or to activate either "its" " platform control console. base or
- Base/Off/Platform Key Switch This three-way b. selector switch allows operator to "O" turn off power to aerial platform or to activate either "

base or " , platform control console.

- Turret Rotation Switch This switch controls 5. "Jeft or "J" right rotation of turret.
- Main Boom Raise/Lower Switch This switch 6. controls " $\stackrel{\bullet}{\frown}$ " raising or " $\stackrel{\bullet}{\frown}$ " lowering of main boom.
- 7. Emergency Stop Button - This red "mushroom-head" " power to control circuit and shuts engine off.

```
SKYIACK
Page 16
```

#### 2.2-7 Base Control Console (Continued)

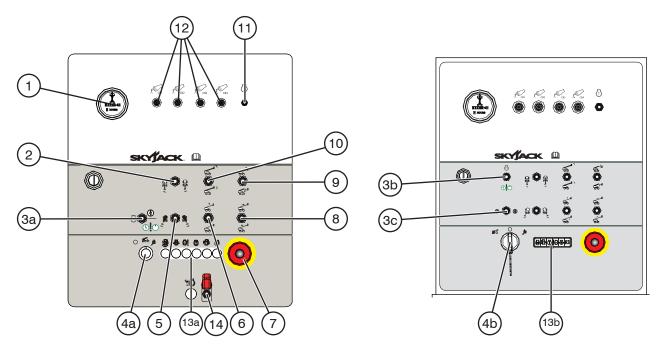
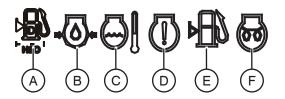


Figure 2-5. Base Control Console

- Fly Boom Extend/Retract Switch This switch controls "," extension or "," retraction of fly boom.
- Jib Up/Down Switch (If Equipped) This switch controls " , up or " , down movement of jib.
- 10. Platform Leveling Override Switch This switch overrides automatic leveling of platform and controls " " " tilting up or " " " tilting down of platform.
- **11.** Engine Diagnosis Switch When held in either direction, this switch "(!)" enables an error blink code for engine control unit (ECU).
- 12. Circuit Breakers In the event of a power overload or positive circuit grounding, the circuit breaker pops out. Push breaker back in to reset.

**13a. Status Indicator Pilot Lights** - These lights indicate operational status and errors in any function in the controls/engine.



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

SK

FAMILIARIZATION

#### 2.2-7 Base Control Console (Continued)

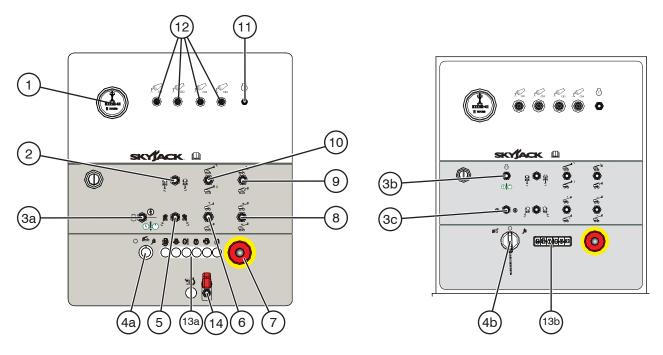
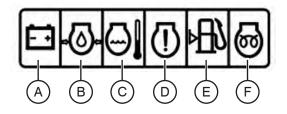


Figure 2-5. Base Control Console

**13b. Status Indicator Pilot Lights** - These lights indicate operational status and errors in any function in the controls/engine.



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

14. **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.



SJ 40T & SJ 45T SJ 61T & SJ 66T

#### 2.2-8 Platform Control Console

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

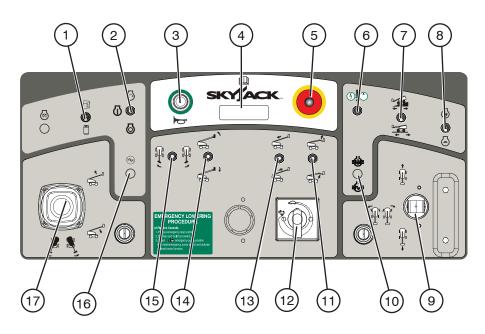
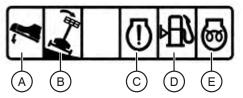


Figure 2-6. Platform Control Console

- Dual Fuel Switch (If Equipped) This switch selects between "
   "
   "
   gasoline or "
   "
   "
   "
   iquid propane gas.
- Engine Start/On/Off Switch This switch, when held momentarily in "O" start position, starts engine. Once started, the switch returns to "O" on position. When in "O" off position, it turns engine off.
- **3.** Horn Pushbutton This " pushbutton sounds an automotive-type horn.
- 4. Status Indicator Pilot Lights These lights indicate operational status and errors in any function in the controls/engine.



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

- **B.** Chassis Tilt This light illuminates when the aerial platform chassis is at an inclination that activates the tilt sensor. At this inclination, an audible alarm will sound at the platform. Refer to Section 3.11 for instructions regarding recovery from an inclined position.
- **C. Engine** This light indicates failure in engine control system.
- D. Fuel This light indicates low fuel level.
- E. Glow Plug (Diesel) This light illuminates until glow plugs have completed their timed cycle. When the lamp goes out, the engine is ready to be started.
- Emergency Stop Button This red "mushroomhead" "
   " pushbutton disconnects power to control circuit and shuts engine off.
- 6. Emergency Power Unit This switch "① ①" enables emergency power unit.
- Torque Switch This switch selects " or " or " high torque.
- Low/High Throttle Switch This switch allows selection between " " Iow and " " high engine throttle speeds.

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 Platform Control Console (Continued)

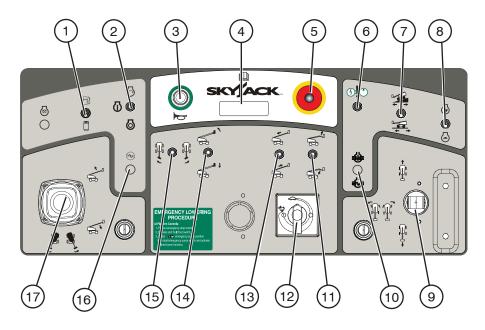


Figure 2-6. Platform Control Console

9. Drive/Steer Controller - This single-axis lever controls driving " $\dot{\Psi}$ " forward or " $\dot{\Psi}$ " backward. The rocker switch controls steering "  $\mathbf{\hat{\mu}}$ " left or  ${}^{\prime}_{\mu}\mu^{\prime}_{\mu}$  " right. Internal springs return it to neutral

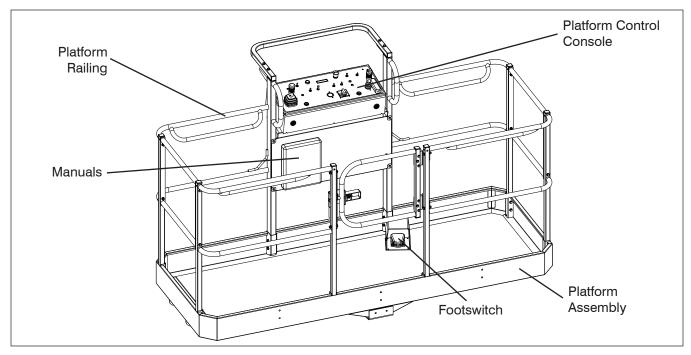
when stick is released.

- 10. Differential Lock Switch - This momentary switch, when pushed forward and then released, engages "iterential lock and turns differential light on. When pulled backward and then released, disengages " differential light off.
- Jib Up/Down Switch This switch controls 11. " $\bigcirc$ " up or " $\bigcirc$ " down movement of jib.
- 12. Function Speed Adjuster Dial This variablespeed adjuster " i controls speed of fly boom extension/retraction, jib raising/lowering and platform rotation movements. This is used with switches 10, 12 and 14.

- 13. Fly Boom Extend/Retract Switch This switch controls " $\stackrel{\bullet}{\bigcirc}$ " extension or " $\stackrel{\bullet}{\bigcirc}$ " retraction of fly boom.
- 14. Platform Leveling Override Switch - This switch overrides automatic leveling of platform and controls "😓" tilting up or "😓" tilting down of platform.
- Platform Rotation Switch This switch controls 15. "" " left or " " " right rotation of platform.
- Generator On/Off Switch (If Equipped) This 16. switch turns the hydraulic generator "()" on or "( )" off.
- Boom/Turret Controller This dual-axis lever 17. controls ", " raising or ", lowering of main boom or rotating " left or " " right of turret



**FAMILIARIZATION** 



#### 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.



#### 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.

#### NOTE

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

#### 2.3-1 Labels

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

#### 2.3-2 Electrical

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

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

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

#### 2.3-3 Limit Switches

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

#### 2.3-4 Hydraulic

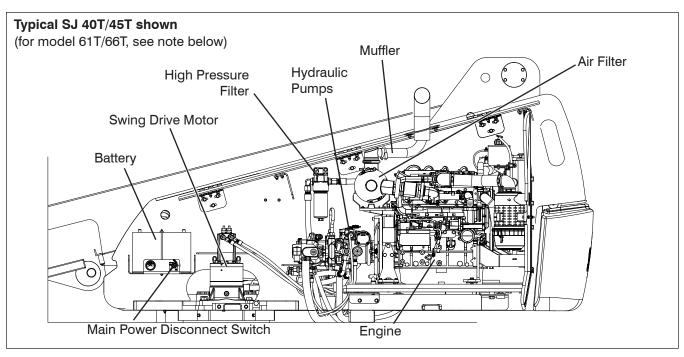
Maintaining the hydraulic components is essential to good performance and service life of the aerial platform.

> Perform a visual inspection around the following areas:

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



Page 21



#### 2.3-5 Engine Compartment

- Ensure all compartment latches are secure and in proper working order.
- Main Power Disconnect Switch (see right side for 61T/66T)
  - Turn main power disconnect switch to "O" off position.
  - Ensure there are no loose or missing parts and there is no visible damage.
  - Ensure all cables are secure and switch is in proper working condition.

#### Battery

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

## 

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



## N 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.

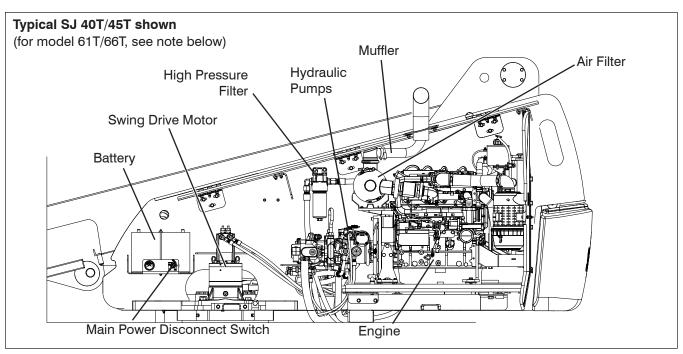
## 

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

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

SKYJACK Page 22

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.



#### **Turret Rotation Gear**

- Ensure there are no loose or missing parts and there is no visible damage.
- **Rotary Manifold** 
  - Ensure all hoses are properly tightened and there is no evidence of hydraulic leakage.
- High Pressure Filter (40T/45T)

(see Control Compartment for 61T/66T)

- Ensure housing is secure and shows no visible damage or leakage.
- **Hydraulic Pumps** 
  - Ensure there are no loose or missing parts and there is no visible damage.
  - Ensure all bolts are properly tightened.
  - Ensure all fittings and hoses are properly tightened and there is no evidence of hydraulic leakage.
- Muffler and Exhaust
  - Ensure muffler and exhaust system are properly secured, with no evidence of damage.
- **Engine Pivot Tray** 
  - Ensure there are no loose or missing parts and no visible damage to the engine pivot tray. Ensure that each tray-securing bolt is in place.

#### • **Engine Oil Level**

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



Beware of hot engine components.

#### Check oil level on dipstick

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

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

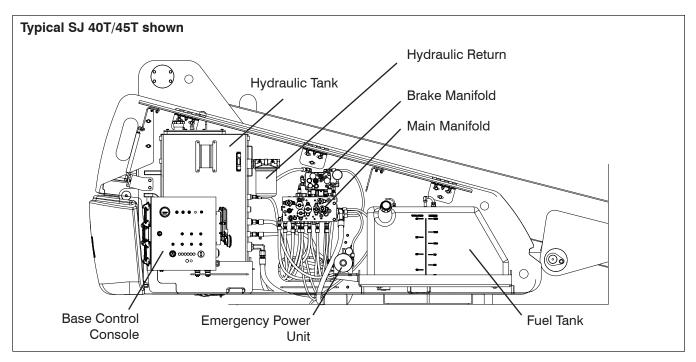
- Fuel Leaks
  - Ensure that there no fuel leaks.



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

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





#### 2.3-6 Control Compartment

- Ensure all compartment latches are secure and in proper working order.
- **Base Control Console** 
  - Ensure all switches are returned to their neutral positions.
  - Ensure there are no loose or missing parts and there is no visible damage.
- **Hydraulic Tank** 
  - Ensure hydraulic filler cap is secure.
  - Ensure tank shows no visible damage and no evidence of hydraulic leakage.
- **Hydraulic Oil** 
  - Be sure that the boom is in the stowed position, and then visually inspect the sight gauge located on the side of the hydraulic oil tank.
  - The hydraulic oil level should be between the minimum and maximum marks on the sight glass. Add oil as needed. Refer to Table 4.2b for recommended oil type.
- **Hydraulic Return Filter** 
  - Ensure filter element is secure.
  - Ensure there are no signs of leakage or visible damage.

#### **Brake and Main Manifolds**

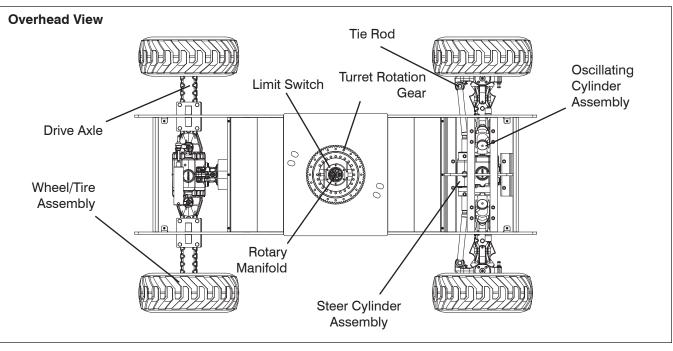
- Ensure all fittings and hoses are properly tightened and there is no evidence of hydraulic leakage.
- Ensure there are no loose wires or missing fasteners.
- **Emergency Power Unit** 
  - Ensure there are no loose or missing parts and there is no visible damage.
  - Ensure there are no loose wires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

#### IMPORTANT

#### Before using your 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, wellventilated area away from heaters, sparks and flames. Always have an approved fire extinguisher within easy reach.

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

#### 2.3-7 Base

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

#### **Oscillating Cylinder Assembly**

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

#### NOTE

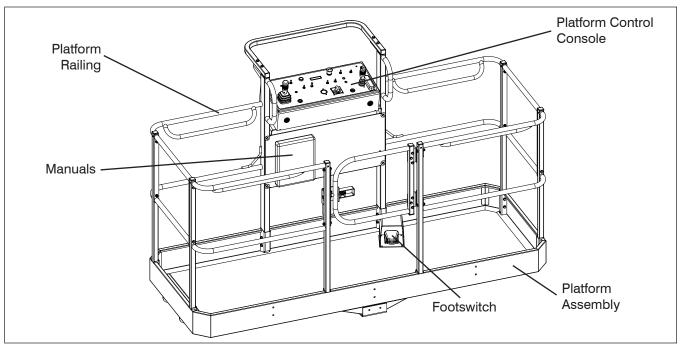
Oscillating axle is locked when aerial platform is in low speed. Refer to Diagram 3.5 Axle Oscillation Diagrams.

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

#### Wheel/Tire Assembly

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







## 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 4.4 for wheel/tire specifications.

## MARNING

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 Skyjackapproved type. Failure to operate with matched approved tires in good condition may result in death or serious injury.

#### 2.3-8 Manuals

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

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

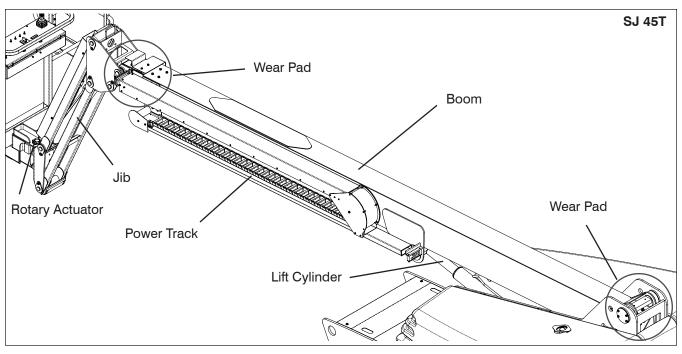
#### 2.3-9 Platform Assembly

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

#### 2.3-10 Platform Control Console

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

SKYJACK Page 26



#### 2.3-11 Rotary Actuator

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

#### 2.3-12 Jib (If Equipped)

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

#### 2.3-13 Boom

SJ 40T & SJ 45T

SJ 61T & SJ 66T

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

- Cylinders
  - Ensure all cylinders are properly secured and there is no evidence of leakage.
- Wear Pads
  - Ensure all bolts are tight, there is no visible damage to the wear pads and that no parts are missing.
- Hoses
  - Ensure all hoses are properly tightened and there is no evidence of hydraulic leakage.
- Power Track
  - Ensure there are no loose or missing parts and there is no visible damage.
- Cables (61T/66T)
  - Ensure there are no loose or missing parts with no signs of visible damage.
  - Ensure that nuts are not loose and are locked together.
  - Ensure that there are no gaps between springs (see Figure 2-7). If there are gaps, tighten nuts to remove gaps and then add another half turn more.

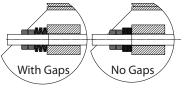
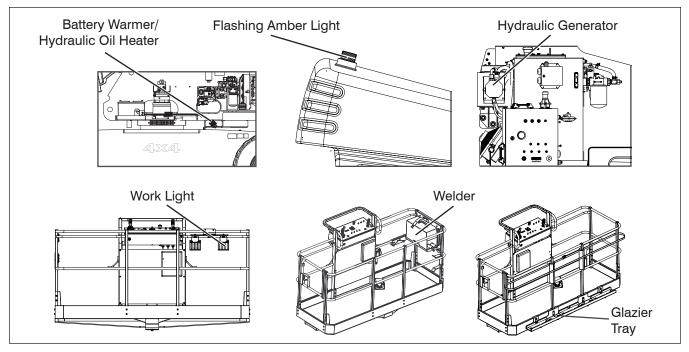


Figure 2-7. Springs

Page 27



#### 2.3-14 Optional Equipment/Attachments

#### Hydraulic Generator (If Equipped)

- Ensure there are no loose or missing parts with no signs of visible damage.
- Ensure all hoses are properly tightened and there is no evidence of hydraulic leakage.
- Battery Warmer/Hydraulic Oil Heater (If Equipped)
  - Ensure battery warmer/hydraulic oil heater cord is properly secured with no signs of visible damage and hydraulic leakage.
- Welder (If Equipped)
  - Ensure welder and welder tray are properly secured.
  - Ensure there are no loose or missing parts and there is no visible damage.
  - Ensure there are no loose wires or missing fasteners.

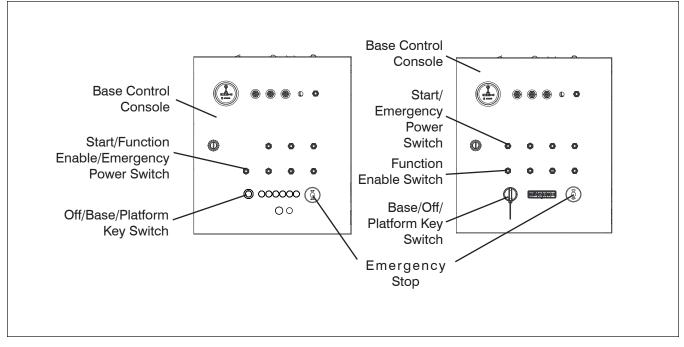
#### Work Light (If Equipped)

- Ensure lamps are properly secured with no signs of visible damage.
- Ensure mounting bracket is properly secured.
- Ensure there are no loose wires or missing fasteners.

#### • Flashing Amber Light (If Equipped)

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





#### 2.4 Function Tests

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

#### IMPORTANT

Never use a malfunctioning aerial platform. If malfunctions are discovered, aerial platform must be tagged and 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.

#### NOTE

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

2.4-1 Test Main Power Disconnect Switch

SJ 40T & SJ 45T

 In engine compartment, turn main power disconnect switch to "O" off position.
 Result: Aerial platform functions should not operate. 2. In engine compartment, turn main power disconnect switch to "" on position.

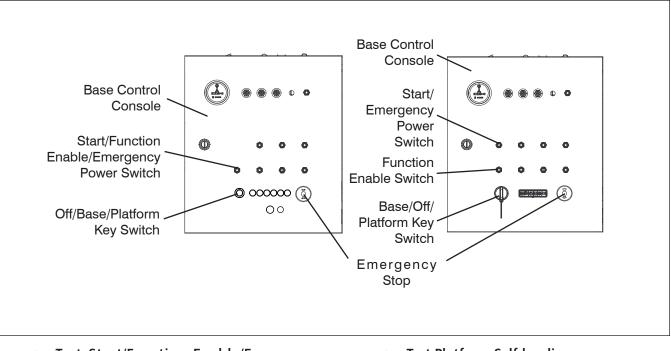
#### NOTE

Close all cowlings before proceeding to next item.

#### 2.4-2 Base Control Console

- 1. On platform control console, pull out " emergency stop button.
- 2. On base control console, pull out "O" emergency stop button.
- 3. Turn off/base/platform (base/off/platform) key switch to "
- 4. Start engine by selecting "O" start position from start/function enable/emergency power (start/ emergency power) switch.
  - Test Emergency Stop
    - Push in "O" emergency stop button.
       Result: Engine should shut down and aerial platform functions should not operate.
    - 2. Pull out " emergency stop button and restart engine.





Test Start/Function Enable/Emergency Power Switch (Function Enable) and All Boom Functions

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

- 1. Ensure "O" emergency stop button is pulled out.
- 2. Start engine.
- 3. Do not hold "O" start/function enable/ emergency power (function enable) switch in function enable position. Attempt to activate each boom and platform switch.

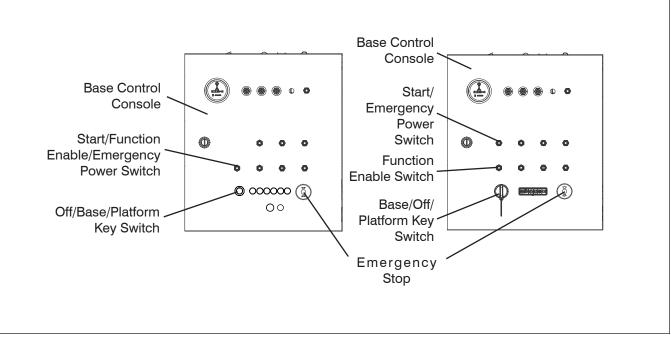
**Result:** All boom and platform functions should not operate.

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

- Test Platform Self-leveling
  - 1. Lower boom to stowed position.
  - 2. Adjust platform to a level position using platform leveling switch.
  - Raise "Solution" and lower "Solution" main boom through a full cycle.
     Result: Platform should remain level at all time.



SJ 40T & SJ 45T SJ 61T & SJ 66T



- **Test Emergency Power** 
  - 1. On base control console, push in " emergency stop button to turn engine off.
  - 2. On platform control console, push in " emergency stop button.



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

#### NOTE

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

## WARNING

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

3. On base control console, pull out " emergency stop button.

SJ 40T & SJ 45T

SJ 61T & SJ 66T

4. Select "(1) \* " emergency power position from start/function enable/emergency power (start/emergency power) switch and activate each boom function. Result: All selected functions should operate.

#### NOTE

The emergency power unit has twominute duty cycle.

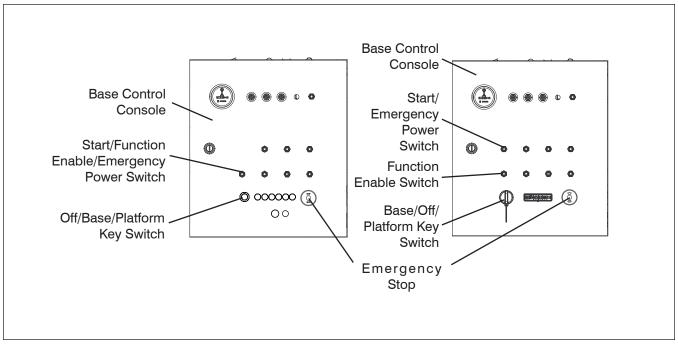
- Test Off/Base/Platform (Base/Off/Platform) Switch
  - 1. Ensure "
    "
    emergency stop button is pulled out.
  - 2. Start engine.
  - 3. On base control console, turn off/base/ platform (base/off/platform) key switch to " $\bigcirc$ " off position.

Result: Engine should shut down and aerial platform functions should not operate.

On base control console, turn off/base/ 4. platform (base/off/platform) key switch

to " , platform position.

SK



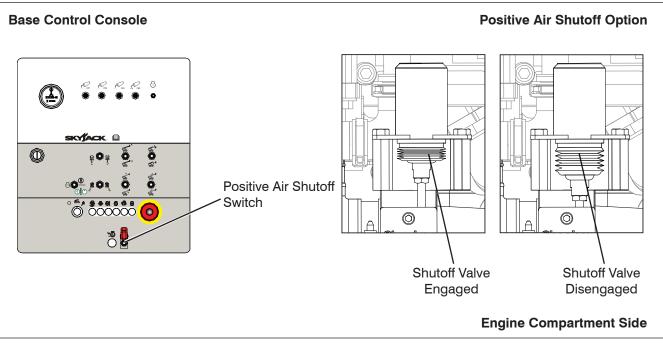


#### Ensure that you maintain three points of contact to mount/dismount platform.

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



SJ 40T & SJ 45T SJ 61T & SJ 66T



• Test Positive Air Shutoff (If Equipped)

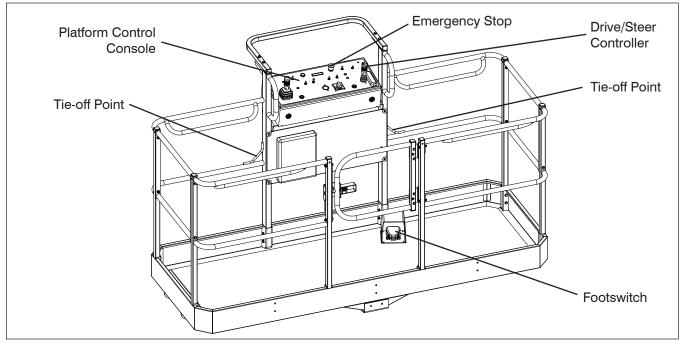


- 1. Open engine compartment cover.
- On the base control console, lift switch guard and push rocker switch to "on" position.
- Push rocker switch to "off" position. LED light should continuously illuminate. Walk back to the engine compartment side of the aerial platform.
   Result: The shutoff valve should disengage after 20 seconds (refer to shutoff valve

diagrams).

4. Close engine compartment cover. Ensure switch is returned to "off" position and switch guard is down.





2.4-3 Platform Control Console



1. Enter platform and close gate.

## 

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

## 

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

- Test Footswitch
  - 1. Pull out "O" emergency stop button.
  - Ensure engine start/on/off switch is in "O" on position.
  - 3. Do not start engine.

- Select generator on/off switch to off position (if equipped).
- Depress and hold footswitch and attempt to start engine by selecting "O" start position from engine start/on/off switch.
   Result: Engine should not start.
- Without depressing footswitch, try to start engine.
   Result: Engine should start.
- With engine running and without depressing footswitch, test each boom and platform function.
   Result: Aerial platform functions should not operate.

#### NOTE

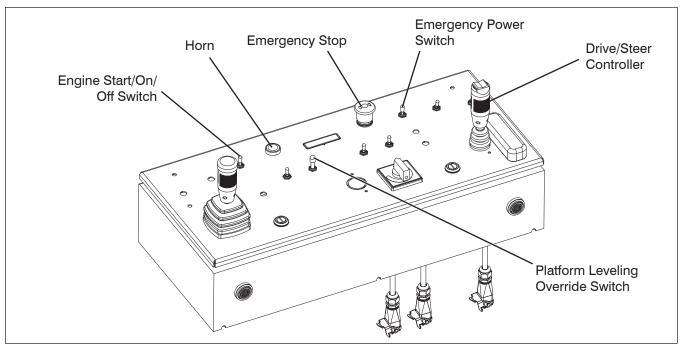
The emergency power unit has twominute duty cycle.

#### NOTE

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



**FAMILIARIZATION** 



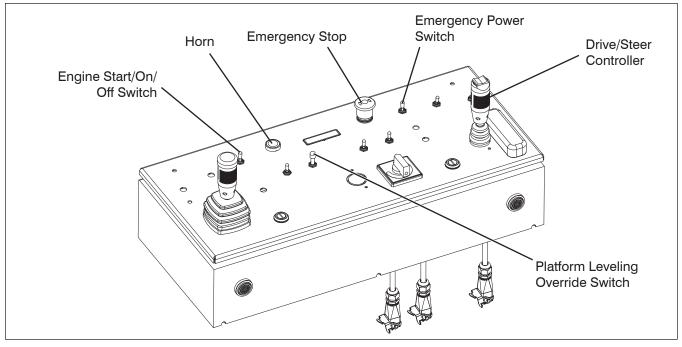
- Test Engine Start/On/Off Switch
  - 1. Ensure engine is running.
  - Select "O" off position from engine start/ on/off switch.
     Result: Engine should shut down and platform control console is disabled.
  - 3. Select "①" on position from engine start/ on/off switch.

**Result:** Platform control console is enabled.

- 4. Start engine by selecting "O" start position from engine start/on/off switch.
- Test Emergency Stop
  - 1. Ensure engine is running.
  - Push in "
     emergency stop button.
     Result: Engine should shut down and aerial platform functions should not operate.
- Test Steering
  - 1. Pull out "O" emergency stop button.

- 2. Start engine by selecting "O" start position from engine start/on/off switch.
- 3. Depress and hold footswitch.
- Press rocker switch on top of drive/steer controller to " y " left and " y ", right. Result: Steer wheels should turn left and right.
- **Test Driving Function** 
  - 1. Ensure path of intended motion is clear.
  - 2. Ensure boom is in stowed position and fly boom fully retracted.
  - 3. Depress and hold footswitch.
  - Slowly move drive/steer controller in
     "I" forward or "I" reverse direction until aerial platform begins to move, and then return handle to center position.
     Result: Aerial platform should move in forward or reverse direction, and then come to a stop.





- Test Driving Speed
  - 1. Depress and hold footswitch.
  - Raise "Solar main boom approximately 14 ft. (4 m) and then slowly move drive/ steer controller to full drive position.
     Result: The maximum achievable drive speed should be significantly less than stowed drive speed.
  - 3. Lower boom to stowed position.
  - Extend "Good of the state of th
- Test Emergency Power

## CAUTION

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

#### NOTE

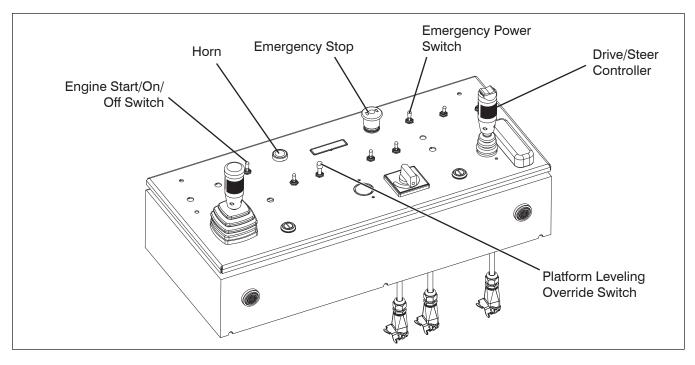
- To conserve battery power, test each function through a partial cycle.
- 1. On platform control console, push in "• emergency stop button to turn engine off.
- 2. Pull out "O" emergency stop button.
- 3. Select "①" on position from engine start/ on/off switch.
- 4. Depress and hold footswitch.
- 5. Turn "(f) (\*)" emergency power switch to "" on position and activate each function control handle or switch. **Result:** All boom and steer functions should operate. Drive functions should not operate.

#### NOTE

The emergency power unit has two-minute duty cycle.

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





Test Brakes



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

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

- On platform leveling override switch, select "Solution to tilt platform up or "Solution to tilt platform down.
   Result: Platform should tilt up or down.
- Test Differential Lock Switch

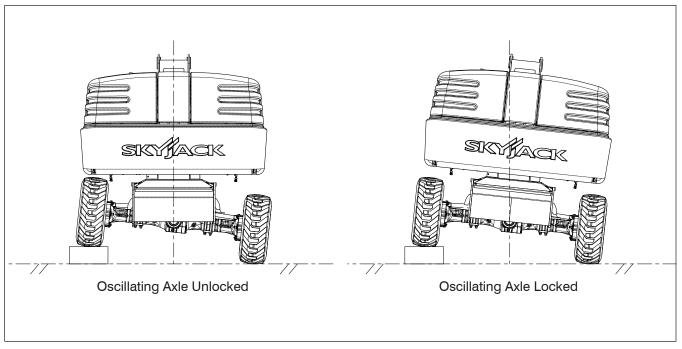


#### Before engaging differential lock, ensure drive/steer controller is in neutral position.

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

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

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



Test Oscillating Axles

•

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

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

Test Cables (61T/66T)

•

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



SJ 40T & SJ 45T SJ 61T & SJ 66T

#### 2.5 Winching and Towing Procedure

This section provides the operator with procedure about winching and towing and on how to manually release brakes.

### N WARNING

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

### <u> (</u> WARNING

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

### <u> (</u>WARNING

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

### N WARNING

Do not winch or tow aerial platform on grade steeper than 50% (2WD & 4WD).

### <u> (</u>WARNING

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

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

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

#### NOTE

Brakes automatically apply when platform controls are engaged.

### N WARNING

Brakes must be applied immediately after reaching desired location.



#### 2.5-1 To Release Brakes Manually

Brakes must be manually disengaged for winching or towing.

### 

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

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

### A CAUTION

## Do not use hydraulic power with brake disengaged.

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

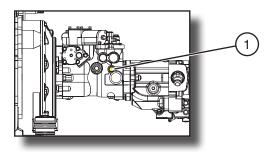


Figure 2-8. Drive Bypass Valve

### **CAUTION** Do not release brakes before disengaging drive motor!

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

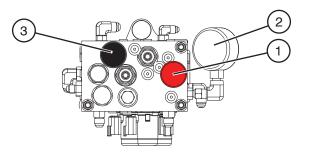


Figure 2-9a. Brake Manifold - SJ40/45T

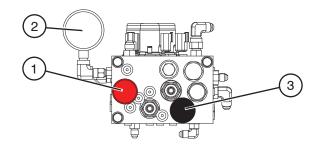


Figure 2-9b. Brake Manifold - SJ61/66T

5. Actuate red hand pump (item 1) slowly by moving knob in and out until pressure gauge (item 2) registers 300 - 430 psi (2068 - 2965 kPa). Brake is now released.



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



**FAMILIARIZATION** 

#### 2.6 Emergency Lowering Procedures

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

#### NOTE

The emergency power unit has two-minute duty cycle.

### A CAUTION

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

#### 2.6-1 Base Control Console

- 1. Ensure engine is off.
- 2. Pull out "O" emergency stop button.
- 3. Turn key switch to "
- 4. Select "① ①" emergency power position from start/function enable/emergency power (start/ emergency power) switch and activate desired boom function.

#### 2.6-2 Platform Control Console

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



Notes

SKYJACK Page 42

### 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

### <u> (</u>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 4.7, 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 4.7 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.



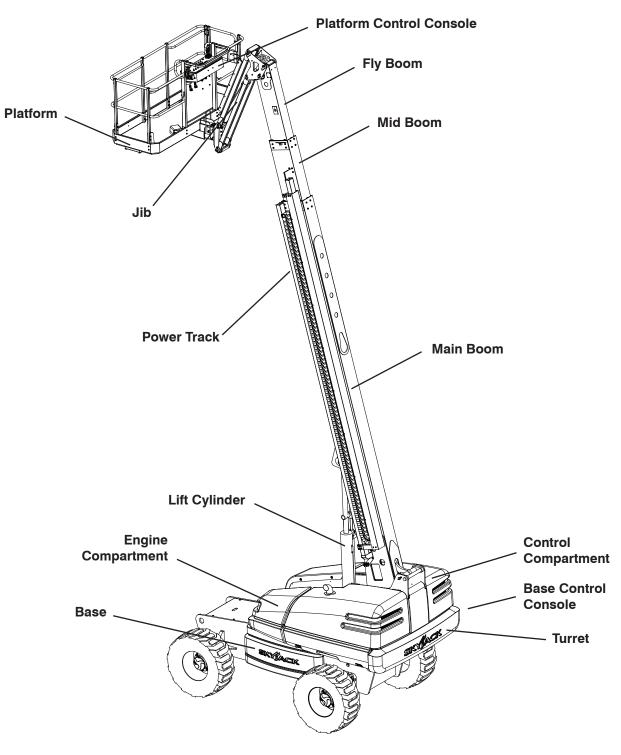
Use original or manufacturer-approved parts and components for the aerial platform.

#### 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 4.7 for recommended maintenance and inspection areas and intervals. A record of annual inspection is kept on a label located close to the base control console on the cowling. Refer to Table 4.3 in this manual.

General

### 3.2 Major Components



SKYJACK Telescopic Boom



#### 3.3 Major Assemblies

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

#### 3.3-1 Base

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

#### 4WD Models:

The rear axle is coupled to the front axle by a drive shaft.

#### 2WD Models:

The front axle has two non-driven wheels.

#### 3.3-2 Turret

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

#### 3.3-3 Boom Assembly

The boom is mounted on the turret and consists of a telescoping fly and main boom assembly. Model 66T has an additional mid boom section. The telescoping boom mechanism uses two double-acting hydraulic cylinders with holding valves to control vertical movement. Cables are used to extend the fly boom section in the 66T model. SJ 45T & SJ 66T models are equipped with a 60 in. (150 cm) boom jib, controlled by a double-acting hydraulic cylinder.

#### 3.3-4 Platform

The platform is constructed of a skid-resistant deck surface allowing visibility through the deck and a 43 in. (109 cm) high tubular steel railing system with mid rails and 6 in. (15 cm) toe boards. The platform can be entered through a swing side gate or an optional swing gate at the center of the railing system. The platform can be rotated in either direction. An AC GFI outlet is also located on the platform.

#### 3.4 Serial Number Nameplate

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

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



#### 3.5 Component Identification

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

#### 3.5-1 Turret Transportation Lock

This locking device is located in the turret.

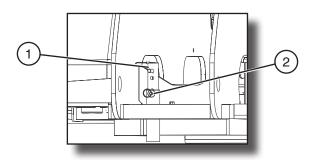


Figure 3-1. Turret Transportation Lock

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

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

#### 3.5-2 All Motion Alarm

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

#### 3.5-3 Manual Storage Box

This weather-resistant box is mounted under the

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





## 3.6 Component Identification (Optional Equipment/Attachments)

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

#### 3.6-1 Tire Sealant (If Equipped)

This option is identified with a tire sealant label located at the rim of the wheel.

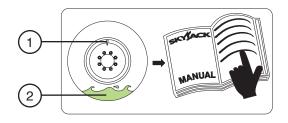


Figure 3-2. Tire Sealant Label

**Tire Sealant Label** - This label indicates that tire sealant is present inside the tires.

- 1. **Tire Valve Stem Cap** This green valve stem cap is substituted onto air tires to indicate sealant has been installed.
- 2. **Sealant** This symbol signifies that tire is equipped with sealant.



The operator must properly handle tires with sealant.

- When depressurizing, inflating or checking tire pressure, ensure that valve stem is at the top to prevent sealant from entering the stem (refer to Figure 3-2).
- If tire no longer holds pressure, replace tire.

### N WARNING

The sealant contains propylene glycol. Do not ingest, inhale or get into eyes. If it gets into your eyes, flush with water for 15 minutes. Consult physician.

#### 3.6-2 AC Outlet on Platform (If Equipped)

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



Figure 3-3. AC Outlet and Electrical Plug

#### 3.6-3 Cold Weather Start (If Equipped)

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

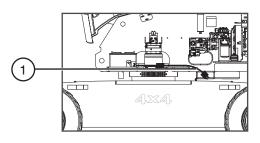


Figure 3-4. Battery Warmer/Hydraulic Oil Heater Cord

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



#### 3.6-4 Flashing Amber Light (If Equipped)

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

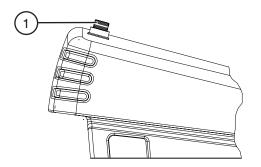


Figure 3-5. Flashing Amber Light

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

#### 3.6-5 Work Light (If Equipped)

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

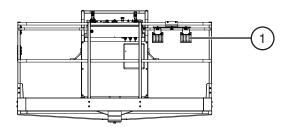


Figure 3-6. Work Light

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



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

#### 3.6-6 Glazier Tray (If Equipped)

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

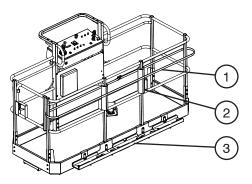


Figure 3-7. Glazier Tray

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

#### NOTE

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



#### 3.6-7 Welder (If Equipped)

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

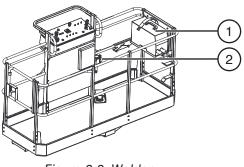


Figure 3-8. Welder

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

#### NOTE

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

#### NOTE

This option adds 90 lb. (41 kg) to the platform. This weight must be included when determining the total load on the platform, including personnel and other materials.

### <u> N</u>WARNING

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

### A CAUTION

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

#### 3.6-8 Arctic Weather Package (If Equipped)

The heater plug is located on the engine compartment near the battery.

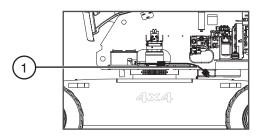


Figure 3-9. Heater Plug

1. **Battery/Hydraulic Oil/Engine Oil Heater Plug** -This cord is plugged into the AC outlet at least 3 hours before starting engine when temperature gets below -18°C (0°F).



#### 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.



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 4.8) and fill out the visual and daily maintenance inspections and the function tests sections while performing the items outlined in Section 2.3 and Section 2.4.

#### IMPORTANT

If aerial platform is damaged or any unauthorized variation from factorydelivered condition is discovered, 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 4.7).



#### 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.

### MARNING

**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

### <u> (</u> 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

### N WARNING

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

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

## 

**DO NOT** over crank the starter. If engine fails to start after multiple attempts, consult "Troubleshooting Information," in the Service and Maintenance Manual.

For aerial platform with cold weather start option:

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





#### 3.8-2 To Rotate Platform Using Base Control Console

- Activate function enable " by selecting and 1. holding start/function enable/emergency power (function enable) switch to function enable position.
- Push platform rotation switch to either " $\stackrel{\text{lum}}{\overset{\text{c}}}{\overset{\text{c}}{\overset{\text{c}}{\overset{\text{c}}{\overset{\text{c}}{\overset{\text{c}}{\overset{\text{c}}{\overset{\text{c}}{\overset{\text{c}}{\overset{\text{c}}{\overset{\text{c}}{\overset{\text{c}}{\overset{\text{c}}}{\overset{\text{c}}{\overset{\text{c}}{\overset{\text{c}}}{\overset{\text{c}}{\overset{\text{c}}}{\overset{\text{c}}{\overset{\text{c}}{\overset{\text{c}}}{\overset{\text{c}}{\overset{\text{c}}{\overset{\text{c}}{\overset{\text{c}}}{\overset{\text{c}}{\overset{\text{c}}}{\overset{\text{c}}}{\overset{\text{c}}{\overset{\text{c}}}}{\overset{\text{c}}}{\overset{\text{c}}}{\overset{\text{c}}}{\overset{\text{c}}}}{\overset{\text{c}}}{\overset{\text{c}}}}{\overset{\text{c}}}{\overset{\text{c}}}}{\overset{\text{c}}}{\overset{\text{c}}}}{\overset{\text{c}}}{\overset{\text{c}}}}{\overset{\text{c}}}{\overset{\text{c}}}}{\overset{\text{c}}}}{\overset{\text{c}}}}{\overset{\text{c}}}}{\overset{\text{c}}}{\overset{\text{c}}}}{\overset{\text{c}}}{\overset{\text{c}}}}{\overset{\text{c}}}}{\overset{\text{c}}}{\overset{\text{c}}}}{\overset{\text{c}}}{\overset{\text{c}}}}{\overset{\text{c}}}}{\overset{\text{c}}}{\overset{\text{c}}}}{\overset{\text{c}}}{\overset{\text{c}}}}{\overset{\text{c}}}}{\overset{{c}}}{\overset{{c}}}}{\overset{{c}}}{\overset{{c}}}}{\overset{{c}}}}{\overset{{c}}}{\overset{{c}}}}{\overset{{c}}}}{\overset{{c}}}}{\overset{{c}}}{\overset{{c}}}}{\overset{{c}}}{\overset{{c}}}}{\overset{{c}}}{\overset{{c}}}}{}}{\overset{{c$ 2. "
  c" right position. Release switch to stop.

3.8-3 To Rotate Turret Using Base Control Console

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

- Activate function enable " by selecting and 1. holding start/function enable/emergency power (function enable) switch to function enable position.
- Push turret rotation switch to either " 2.

or " $\mathcal{W}$ " counterclockwise position. Release switch to stop.

#### NOTE

continuously Turret can be rotated 360 degrees.

#### 3.8-4 To Move Jib Up and Down Using Base Control Console (If Equipped)

- Activate function enable " by selecting and 1. holding start/function enable/emergency power (function enable) switch to function enable position.
- Push jib up/down switch to either " $\overbrace{\bigcirc}^{r}$ " up or 2. " $\bigcirc$ "," down position. Release switch to stop.

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

- Activate function enable "()" by selecting and 1 holding start/function enable/emergency power (function enable) switch to function enable position.
- Push main boom raise/lower switch to either 2. " $\stackrel{\bullet}{\frown}$ " raise or " $\stackrel{\bullet}{\frown}$ " lower position. Release

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

- Activate function enable "(4)" by selecting and 1. holding start/function enable/emergency power (function enable) switch to function enable position.
- Push fly boom extend/retract switch to either 2. "
   "
   extend or "
   "
   retract position. Release switch to stop.

#### 3.8-7 To Level Platform Using Base Control Console

- Activate function enable " (6)" by selecting and 1. holding start/function enable/emergency power (function enable) switch to function enable position.
- 2. Push platform leveling override switch to either "😞" up or "😓" down position. Release switch to stop.

Page 52

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

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

#### NOTE

The emergency power unit has two-minute duty cycle.

### Do not use emergency power unit continuously for two minutes.

#### 3.8-9 To Activate Platform Control Console

- 1. In engine compartment, turn main power disconnect switch to "" on position.
- 2. On base control console, turn off/base/platform

(base/off/platform) key switch to "

3. On base control console, pull out "●" emergency stop button.



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

### N WARNING

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

- 4. Enter platform and close gate.
- 5. Attach body harness lanyards of each occupant to platform lanyard rings.
- On platform control console, pull out "
   emergency stop button.
- 7. Select "O" start position from engine start/on/off switch until engine starts.



**DO NOT** over crank the starter. If engine fails to start after multiple attempts, consult "Troubleshooting Information," in the Service and Maintenance Manual.

#### NOTE

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

Select desired engine RPM using throttle switch:
 "
 <sup>w</sup> high or "
 <sup>w</sup> low.

### 

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



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

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

- 1. Depress and hold footswitch.
- 2. Push and hold drive/steer controller in this direction "<sup>1</sup>," to drive forward or "<sup>1</sup>," to drive backward.
- 3. Release controller handle to stop.

### 1 DANGER

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

- 3.8-11 To Steer Using Platform Control Console
- 1. Depress and hold footswitch.
- 2. Press rocker on top of drive/steer controller in this direction " $\mathbf{\hat{\mu}}$ " to steer left or " $\mathbf{\hat{\mu}}$ " to steer right.

#### NOTE

Driving and steering may be active at the same time.

#### 3.8-12 To Move Jib Up and Down Using Platform Control Console (If Equipped)

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

#### 3.8-13 To Extend or Retract Fly Boom Using Platform Control Console

- 1. Depress and hold footswitch.
- On fly boom extend/retract switch, select "Solution", to extend fly boom or "Solution", to retract fly boom.
   Vary speed with "O" boom speed adjuster dial.
   Release switch to stop.

#### 3.8-14 To Level Platform Using Platform Control Console

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

#### 3.8-15 To Rotate Platform Using Platform Control Console

- 1. Depress and hold footswitch.
- On platform rotation switch, select "2" to rotate platform left or "2" to rotate platform right. Vary speed with "0" boom speed adjuster dial. Release switch to stop.



#### 3.8-16 To Raise or Lower Main Boom Using Platform Control Console

- 1. Depress and hold footswitch.
- 2. Push and hold boom/turret controller in this direction " $\bigcirc$ " to raise main boom or " $\bigcirc$ " to lower main boom.
- 3. Release controller handle to stop.
- 3.8-17 To Rotate Turret Using Platform Control Console

### 

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

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

#### NOTE

Turret can be rotated continuously 360 degrees.

#### 3.8-18 To Sound Horn

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

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

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

#### NOTE

The emergency power unit has two-minute duty cycle.

Do not use emergency power unit continuously for two minutes.

#### 3.8-20a To Engage Differential Lock Switch

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

#### 3.8-20b To Disengage Differential Lock Switch

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

#### NOTE

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

#### 3.8-21 Shutdown Procedure

- 1. Completely retract boom and lower platform.
- 2. Push in "O" emergency stop button on platform control console and on base control console.
- 3. Turn base/off/platform key switch to "〇" off position. Remove key.
- 4. Turn main power disconnect switch to "O" off position.

For aerial platform with cold weather start option:

#### NOTE

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

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



#### 3.8-22 Hydraulic Generator (If Equipped)

#### To start the hydraulic generator:

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

#### To restore normal operation:

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

#### NOTE

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

#### 3.8-23 Glazier Tray (If Equipped)

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



3.8-24 Arctic Weather Package (If Equipped)



- Do not use heaters if temperature is above freezing.
- Use the correct fluids, and the proper diesel fuel. (refer to Cold Weather Operation Chart)
- At temperatures below -7°C (20°F), run engine at idle for at least 5 minutes before operating aerial platform.
- 1. Ensure the aerial platform is on level ground, boom is in stowed position and hydraulic oil level is between the minimum and maximum marks on the sight gauge.
- 2. Locate heater plug (item 1) on engine compartment.
- 3. Plug heater into a 110V / 15 Amp protected circuit for a minimum of 3 hours.
- 4. Start engine from base control console (refer to Section 3.8-1).



**DO NOT** over crank the starter. If engine fails to start after multiple attempts, consult "Troubleshooting Information" in the Service and Maintenance Manual.

### 

Ensure heater is unplugged before operating aerial platform.

#### NOTE

- If aerial platform is to be parked for an extended period of time, remove the battery and store it in a warm place.
- Refer to the cold weather operation chart (Figure 3-11) to assist in operating the aerial platform in cold weather conditions.

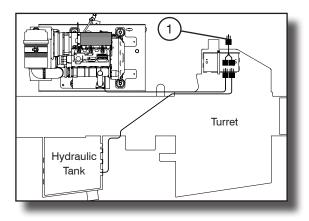


Figure 3-10. Heater Plug

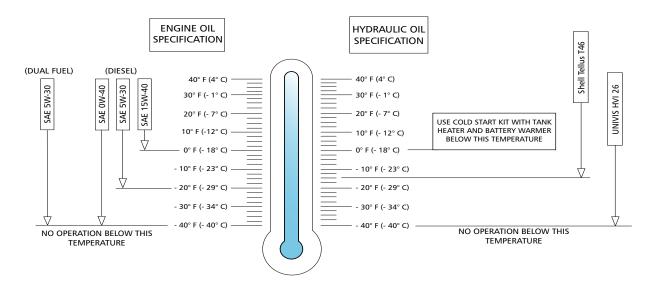


Figure 3-11. Cold Weather Operation Chart



#### 3.9 Refueling Procedure

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

#### IMPORTANT

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

### <u> (</u> WARNING

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

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

### <u> (</u>WARNING

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

#### 3.9-1 Regular Fuel (Gasoline or Diesel)

#### **IMPORTANT** Use unleaded gasoline only.

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



#### 3.10 Loading/Unloading

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

#### 3.10-1 Loading and Tie-down

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

- 3. Turn main power disconnect switch to "O" off position.
- 4. Chock aerial platform wheels (if necessary).
- 5. Remove all loose items.
- 6. Anchor down aerial platform to transport surface using tie-down points (refer to Figure 3-12).
- 7. Secure boom from side-to-side movement using lower platform mount between boom end and platform. Do not use excessive downward force when securing boom section.



Inspect aerial platform for loose or unsecured items.

#### NOTE

For loading and unloading using a winch line, refer to Section 3.10.

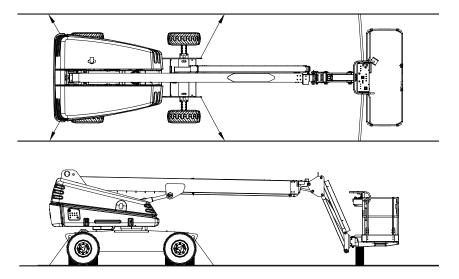


Figure 3-12. Tie-down Points



#### 3.10-2 Locking the Turret

- 1. Ensure that turret is positioned so that turret transportation lock (item 1 Figure 3-13) is aligned into one of four turret locking points.
- 2. Pull out turret lock retaining pin (item 2 Figure 3-13). Lower turret lock into locked position and reinsert turret lock retaining pin.

#### 3.10-3a Lifting (40T/45T)

- Place boom in stowed position (boom lowered and fully retracted, jib fully down, if equipped) centered between drive wheels. Lock turret using turret transportation locking pin (refer to Section 3.10-2) into one of two transport/lift points only (refer to Figure 3-13).
- 2. Turn main power disconnect switch to "O" off position.

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



When lifting the aerial platform, lifting devices must be attached to designated lift points only (refer to Figure 3-14).



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

4. Properly adjust rigging to ensure aerial platform remains level during lifting. See Center of gravity location (Figure 3-14).

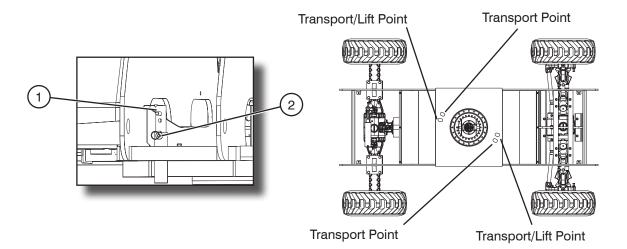


Figure 3-13. 40/45T Turret Transportation Lock & Locking Points

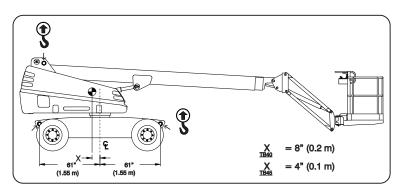


Figure 3-14. 40/45T Lifting Points



#### 3.10-3b Lifting (61T/66T)

- 1. Rotate the boom and position the aerial platform as shown in Figure 3-15 and Figure 3-16.
- 2. Turn main power disconnect switch to "O" off position.
- 3. Clear platform of all personnel, tools and materials.



When lifting the aerial platform, lifting devices must be attached to designated lift points only (refer to Figure 3-16 and Figure 3-17).



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

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

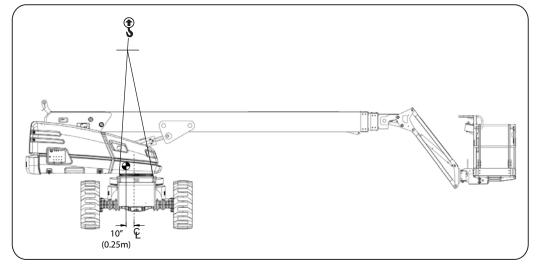


Figure 3-15. 61/66T Center of Gravity

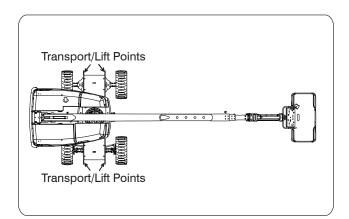


Figure 3-16. 61/66T Overhead View Lifting Points

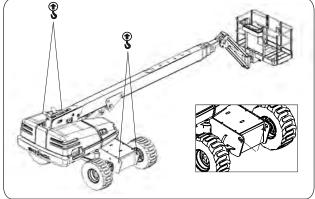


Figure 3-17. 61/66T Lifting Points



#### 3.11 Chassis Tilt

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

#### IMPORTANT

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

### N WARNING

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

#### 3.11-1 Counterweight Uphill

If the aerial platform becomes tilted with the counterweight uphill (refer to Figure 3-18) follow the steps below to return to a lowered and retracted position.

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

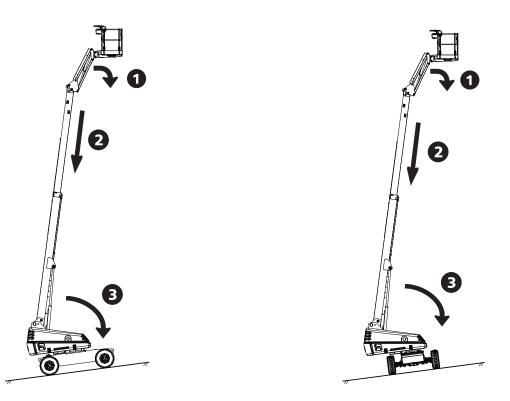
#### 3.11-2 Counterweight Downhill

If the aerial platform becomes tilted with the counterweight downhill (refer to Figure 3-19) follow the steps below to return to a lowered and retracted position.

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



Figure 3-18. Counterweight Uphill







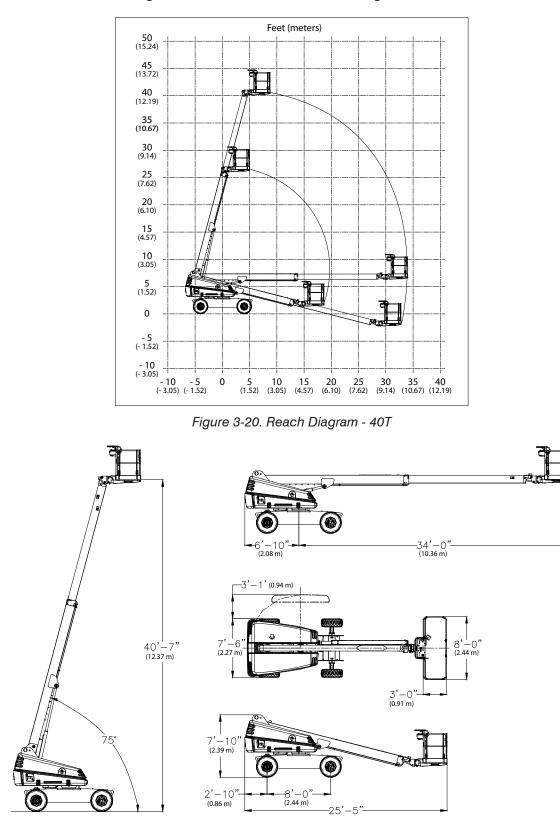


Diagram 3.1 Dimension and Reach Diagram - SJ 40T





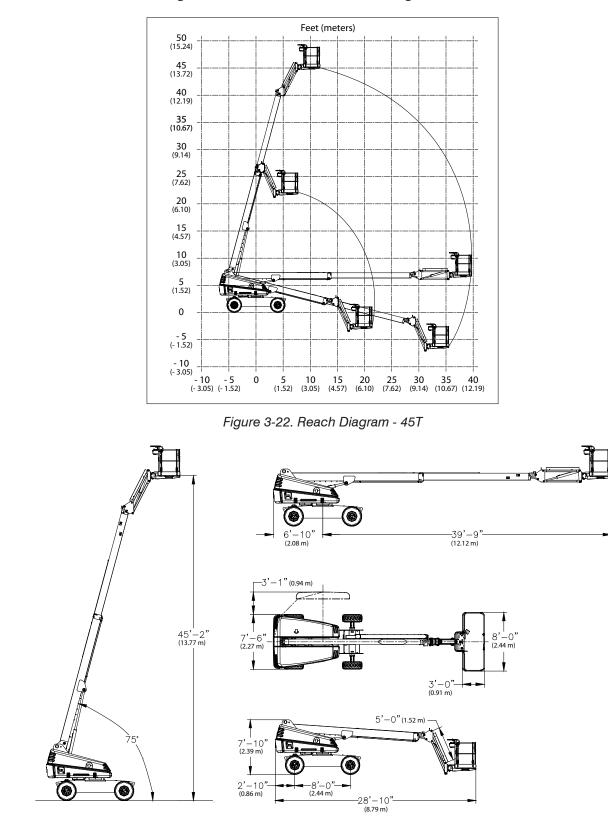


Diagram 3.2 Dimension and Reach Diagram - SJ 45T





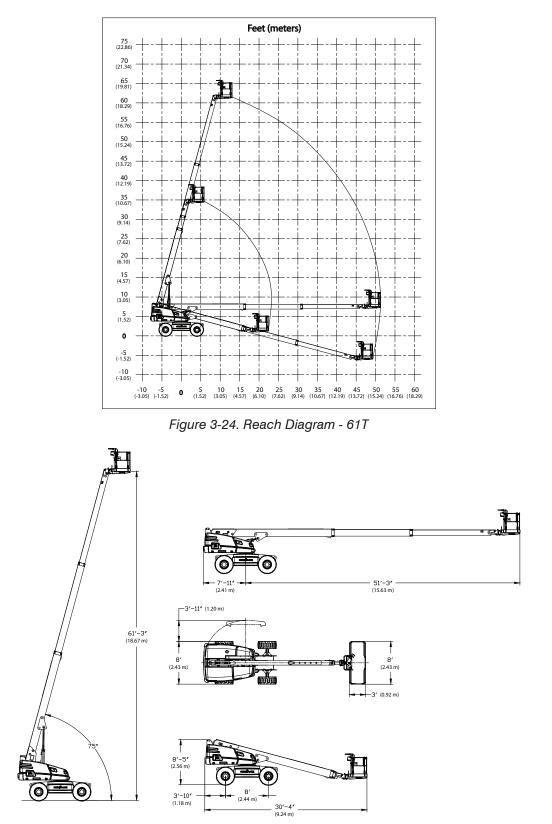


Diagram 3.3 Dimension and Reach Diagram - SJ 61T







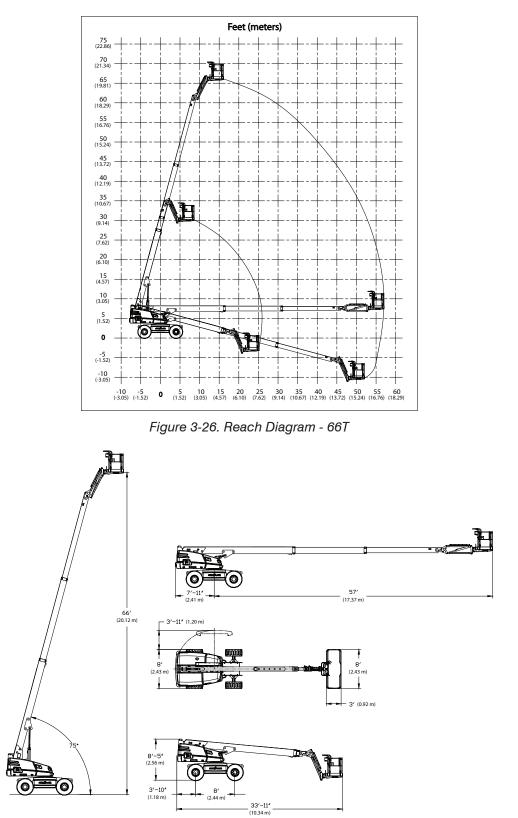


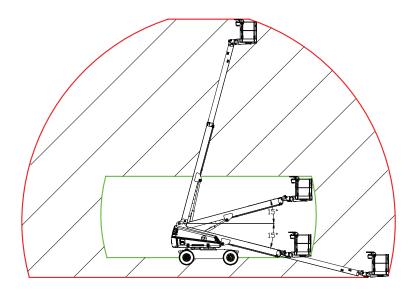
Diagram 3.4 Dimension and Reach Diagram - SJ 66T





Diagram 3.5 Axle Oscillation Diagrams



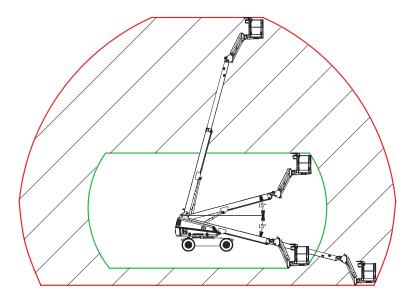




Axle oscillation free (travel mode) - drive speed 4.5 mph (7.2 km/h) max.

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

Figure 3-28. Axle Oscillation - SJ 40T/61T





Axle oscillation free (travel mode) - drive speed 4.5 mph (7.2 km/h) max. Axle oscillation locked (work mode) - drive speed 0.5 mph (0.8 km/h) max.

Figure 3-29. Axle Oscillation - SJ 45T/66T



Notes

SKYJACK Page 68

MODEL	SJ 40T	SJ 45T	SJ 61T	SJ 66T		
STANDARD EQUIPMENT						
Platform controls	✓	✓	✓	√		
Base controls	1	✓	✓	1		
Four-wheel drive	1	✓	✓	1		
Oscillating axle (steer)	✓	✓	✓	1		
Side entry spring hinged gate	✓	✓	✓	1		
Variable speed drive and function controls	1	✓	✓	1		
Continuous drive and steer directional sensing	1	✓	✓	1		
12 Volt DC emergency power	1	✓	✓	1		
Engine anti-restart protection	1	✓	✓	1		
Glow plug heaters (diesel only)	1	✓	✓	1		
Spring-applied hydraulically released parking brake	1	✓	✓	1		
110V outlet on platform with GFI	1	✓	✓	1		
Diesel engine	1	✓	✓	1		
Operator horn	1	✓	✓	1		
All function motion alarm	1	✓	✓	1		
Manual brake release	1	✓	✓	1		
Air-filled tires	1	✓	✓	1		
5-foot jib	Not Applicable	✓	Not Applicable	1		
OPTIONAL	QUIPMENT	-				
GM 3.0L dual fuel engine (gas/propane)	4	✓	✓	√		
Two-wheel drive	1	✓	✓	1		
Welder package with 12kW hydraulic generator	✓	1	~	1		
3500W hydraulic generator	✓	1	~	1		
Cold weather start kit (diesel or dual fuel)	1	1	~	1		
Flashing amber light	1	1	1	1		
Platform work light	1	1	1	1		
Base driving light	1	1	Not Available	Not Available		
Glazier package	1	~	~	1		
Air line or hydraulic line to platform	1	~	✓	4		
72 x 36 inch platform	1	~	✓	4		
Extra propane tank	1	✓	✓	1		
Tire sealant	1	✓	✓	4		
Oil cooler (included with generators)	1	√	√	1		
Foam filled tires	1	√	√	1		
High flotation tires	1	√	✓	4		
Diesel scrubber (Level 1)	1	√	✓	√		
Diesel scrubber (Level 2)	Not Available	Not Available	√	1		
	√	✓	✓	1		

Table 4.1 Standard and Optional Features

60551AI-ANSI

Table 4.2a Specifications and Features

MODEL		SJ 40T	SJ 45T	SJ 61T	SJ 66T	
Maximum Load Capacity		650 lb (295 kg)	500 lb (227 kg)	500 lb (227 kg)	500 lb (227 kg)	
E Total		tform Length (Outside)	96 in. (243.8 cm)	96 in. (243.8 cm)	96 in. (243.8 cm)	96 in. (243.8 cm)
Platform Size	Total Pla	tform Depth (Outside)	36 in. (91.4 cm)	36 in. (91.4 cm)	36 in. (91.4 cm)	36 in. (91.4 cm)
 Working		46.5 ft. (14.2 m)	51 ft. (15.6 m)	68 ft. (20.6 m)	72.3 ft. (22.0 m)	
Ħ	Pla	atform Elevated	40 ft. (12.4 m)	45 ft. (13.8 m)	61 ft. (18.8 m)	66 ft. (20.2 m)
Height		Drive	driveable at all heights		driveable at all heights	
		Turret	7 ft. 10 in. (2.4 m) 7 ft. 10 in. (2.4 m)		8 ft. 6 in. (2.6 m) 8 ft. 6 in. (2.6 m)	
gth	Ove	erall with platform	25 ft. 5 in. (7.7 m)	28 ft. 11.5 in. (8.83 m)	30 ft. 4 in. (9.2 m)	34 ft. 2 in. (10.4 m)
Length	E	Base and tires	12 ft. 3 in. (3.7 m)	12 ft. 3 in. (3.7 m)	11 ft. 5 in. (3.5 m)	11 ft. 5 in. (3.5 m)
Ę	0	utside std. tires	7 ft. 6 in. (2.3 m)	7 ft. 6 in. (2.3 m)	8 ft. (2.4 m)	8 ft. (2.4 m)
Width		Turret	7 ft. 4 in. (2.2 m)	7 ft. 4 in. (2.2 m)	7 ft. 6 in. (2.3 m)	7 ft. 6 in. (2.3 m)
Weight	Wei	ght (with air tires)	14,100 lb. (6,400 kg)	14,815 lb. (6,720 kg)	23,500 lb. (10,650 kg)	26,700 lb. (12,100 kg)
Vei	Weight (	(with foam-filled tires)	14,900 lb. (6,760 kg)	15,615 lb. (7,085 kg)	25,000 lb. (11,340 kg)	28,200 lb. (12,790 kg)
	Platform	n Rotation	170 degrees	175 degrees	170 degrees	175 degrees
	Horizontal Reach		34 ft. (10.34 m)	39 ft. 8 in. (12.1 m)	51 ft. 3 in. (15.6 m)	57 ft. (17.4 m)
	Wheelbase		8 ft. (2.4 m)	8 ft. (2.4 m)	8 ft. (2.4 m)	8 ft. (2.4 m)
	Turret	Rotation	360 degrees	s continuous	360 degrees continuous	
	Turret Tailswing		44 in. (1.12 m)	44 in. (1.12 m)	52.5 in. (1.33 m)	52.5 in. (1.33 m)
G	iradeability (to	rque equivalent to)	50%		50	)%
Gi	round Clearand	ce Between Wheels	11 in. (28 cm)	11 in. (28 cm)	16 in. (41 cm)	16 in. (41 cm)
ius	Inside	2WD	7 ft. 4 in. (2.2 m)	7 ft. 4 in. (2.2 m)	6 ft. 4 in. (1.9 m)	6 ft. 4 in. (1.9 m)
Rad	Inside	4WD	9 ft. (2.7 m)	9 ft. (2.7 m)	9 ft. 3 in. (2.8 m)	9 ft. 3 in. (2.8 m)
Turning Radius	Outside	2WD	17 ft. (5.2 m)	17 ft. (5.2 m)	16 ft. 7 in. (5.0 m)	16 ft. 7 in. (5.0 m)
Ţ	Outside	4WD	18 ft. 7 in. (5.7 m)	18 ft. 7 in. (5.7 m)	16 ft. 7 in. (5.0 m)	16 ft. 7 in. (5.0 m)
	System	n Voltage	12 VDC		12 VDC	
Battery		Туре	Lead	Acid	Lead Acid	
Bat	Cold	Cranking Amperes	800 A		800 A	
	г	Main boom up	27 - 33 seconds (approx.)		50 - 56 seconds (approx.)	
	Ma	ain boom down	27 - 33 seconds (approx.)		50 - 56 seconds (approx.)	
Fly boom extend Fly boom retract Jib up Jib down		27 - 33 seconds (approx.)		62 - 68 seconds (approx.)		
		27 - 33 seconds (approx.)		37 - 43 seconds (approx.)		
ratin	Jib up		18 - 28 seconds (approx.)		18 - 28 seconds (approx.)	
Opé	Jib down		10 - 16 seconds (approx.)		10 - 16 seconds (approx.)	
	Turret rotate - counterclockwise 360° (fully stowed)		80 - 110 seconds (approx.)		90 - 110 seconds (approx.)	
	Plat	tform rotate - full	5 - 9 seconds (approx.)		5 - 9 seconds (approx.)	
Driving Speeds	Drive Speed (maximum-stowed)		4.5 mph (7.2 km/h)		4.5 mph (7.2 km/h)	
Drive Speed (maximum-elevated)			0.5 mph (0.8 km/h)		0.5 mph (0.8 km/h)	

60629AE-ANSI

SKYJACK Page 70

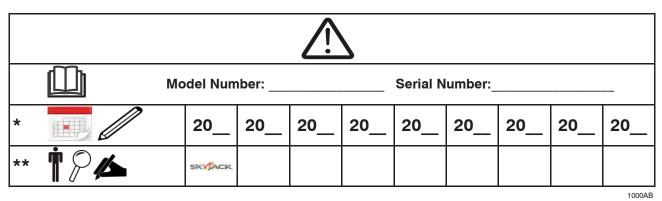
Bit         Engine Type Fuel Type Fuel Type         Dutc D29 Dutc D29			MODEL		SI 40T	SI 4ET	SLAT	SI 44T	
Total Type         Defeal           Standard Oll         O'F to 115°F         SAE 15W-40 API CF;CG;CH-4           Cold Lube Oll         Ambient         -29°F to 90°F         SAE 5W-30 API CF;CG;CH-4           Cold Lube Oll         Imperature         -29°F to 90°F         SAE 5W-30 API CF;CG;CH-4           Arctic Lube Oll         Lube Oll Sump Capacity         2.11 gal (0.1)         2.28 gal (9.1)           Approved         Attent Capacity         2.11 gal (0.1)         2.38 gal (9.1)           Rediator Fluid Type         Deutz DOI11L03         Deutz DOI11L04           Baddard Oll         Rediator Fluid Type         Deutz DOI11L04           Fuel Type         Deutz DOI11L04         Deutz DOI11L04           Standard Oll         Ambient         -40°F to 115°F         SAE 5W-30 API CF;CG;CH-4           Cold Lube Oll         Ambient         -0°F to 115°F         SAE 15W-40 API CF;CG;CH-4           Cold Lube Oll         Ambient         -40°F to 115°F         SAE 5W-30 API CF;CG;CH-4           Aret Lub Oll         Librits         -40°F to 115°F         SAE 5W-30 API CF;CG;CH-4           Aret Lub Oll         Ambient         -40°F to 115°F         SAE 5W-30 API CF;CG;CH-4           Aret Lub Oll         Samadard Oll         Ambient         -40°F to 115°F         SAE 5W-30 API CF;CG;CH-4 <td colspan="3"></td> <td>SJ 40T</td> <td>SJ 45T</td> <td>SJ 61T</td> <td>SJ 66T</td>				SJ 40T	SJ 45T	SJ 61T	SJ 66T		
The Hart Tank Capacity         4 spail (770.3 L)           Standard OI Factory Fill Cold Lube OI Option         Of To 115°F (-18°C to +45°C)         SAE 199/4.0 API CF;CG;CH.4           Cold Lube OI Option         Ambient Cold Lube OI Option         - 40°F to 115°F (-40°C to +45°C)         SAE 6W-30 API CF;CG;CH.4           Article Lube OI Option         Lunk OI Alternates         - 40°F to 115°F (-40°C to +45°C)         SAE 6W-40 API CF;CG;CH.4           Badiator Capacity         2.30 gal (9.1)         .04°F to 115°F (-40°C to +45°C)         SAE 19W-40 API CF;CG;CH.4           Badiator Capacity         2.30 gal (9.1)         .04°F to 115°F (-16°C to +45°C)         SAE 19W-40 API CF;CG;CH.4           Badiator Capacity         2.30 gal (9.1)         .04°F to 115°F (-18°C to +45°C)         SAE 19W-40 API CF;CG;CH.4           Feel Tank Capacity         -05°F to 115°F (-18°C to +45°C)         SAE 19W-40 API CF;CG;CH.4         -06°F to 115°F (-18°C to +45°C)           Cold Lube OI Option         Ambient Tomperature         -06°F to 115°F (-18°C to +45°C)         SAE 0W-40 API CF;CG;CH.4           Arctic Lube OI Option         -06°F to 115°F (-18°C to +45°C)         SAE 0W-40 API CF;CG;CH.4         -06°F to 115°F (-18°C to +45°C)           Standard OI Arctic Lube OII Capacity         -06°F to 115°F Fuel Type - Dual         Gasoline; Proparie Alternates         -26°F to 115°F (-40°C to +45°C)           Standard OI Arctic Colant         Ambie									
Pactory Fill Ambient         Ambient (-19°C to +49°C)         SAR 15W-40 API CF/CG(CH-4           Arctic Lube OII Option         Ambient Immereture Limits        20°F to 90°F (-40°C to +49°C)         SAR 15W-40 API CF/CG(CH-4           Approved Ammete         Ambient Umits        20°F to 115°F (-40°C to +49°C)         SAR 15W-40 API CF/CG(CH-4           Approved Ammete         Lube OII Sump Caracity         2-11 gel (61)         2.38 gel (74)           Performate         Particle Lube OII Reditation Dapate (-10°C to +49°C)         SAR 15W-40 API CF/CG(CH-4           Balance         Lube OII Sump Caracity         2.11 gel (61)         2.38 gel (74)           Performation         Particle Lube OII Particle Particle Lube OII         O*F to 115°F (-18°C to +43°C)         SAR 15W-40 API CF/CG(CH-4           Cold Lube OII Particle Tark Caracity         -20°F to 90°F (-20°F to 90°F         SAR 15W-40 API CF/CG(CH-4           Cold Lube OII Particle Lube OII Option         Ambient (-20°F to 90°F         SAR 15W-40 API CF/CG(CH-4           Cold Lube OII Approved Atemates         -20°F to 90°F (-20°F to 90°F         SAR 15W-40 API CF/CG(CH-4           Cold Lube OII Particle Particle As CC)         SAR 15W-40 API CF/CG(CH-4         Caracity           Ambient Cold Cold Caracity         -20°F to 90°F (-20°F to 90°F         SAR 15W-40 API CF/CG(CH-4           Standard OII Particle Pare         Ambient Cold Co to 45°C)									
Bits         Cold Lube Oil Temperature Arreite Lube Oil Approved Atternates         Ambient Temperature Lube Oil Sump Capacity         -20F to 90F (-20°C to +32°C)         SAE 5W-30 API CF/CQ(CH-4           Approved Atternates         Ambient Temperature Atternates         -20F to 90F (-20°C to +32°C)         SAE 5W-30 API CF/CQ(CH-4           Proved Atternates         Ambient Temperature (-20°C to +32°C)         SAE 5W-30 API CF/CQ(CH-4           See Engine Manual         Estimator Councily Battor Fluid Type         Deuts 20011L031         2:38 gal (9 L)           Standard Oil Factory Fill         Fuel Tank Capacity Fuel Tank Capacity         Deuts 20011L031         Deuts 20011L031           Fuel Tank Capacity         OF to 115°F (-19°C to +45°C)         SAE 5W-30 API CF/CQ(CH-4	Ν								
Approved Attenates         See Engine Manual           Attenates         Construction         Construction           Radiator Capacity         C.311 gal (8.L)         C.338 gal (9.L)           Radiator Capacity         C.311 gal (8.L)         C.338 gal (9.L)           Radiator Fluid Type         DELO ELC 50:50           Benjne Type         Deutz D2011L081         Deutz D2011L041           Feal Type         Deutz D2011L031         Deutz D2011L041           Factory Fill         Ambient         - 20°F to 95°F         SAE 5W-30 API CF/CG/CH-4           Cold Lube Oil Option         Temperature         - 20°F to 95°F         SAE 5W-30 API CF/CG/CH-4           Arctic Lube Oil Option         - 40°F to 115°F         SAE 5W-30 API CF/CG/CH-4         - 40°F to 115°F           Approved Attenates         - 40°F to 115°F         SAE 5W-30 API CF/CG/CH-4         - 40°F to 115°F           Standard Oil Feal Type - Doal         Genoline/Propare         3.01 (40.Dui Fuel Genoline/Propare         - 40°F to 115°F           Standard Oil Feal Type - Doal         Conscript         3.45 gal (70.5 L)         2.45 gal (70.6 L)           Standard Oil Arctic Colonit         - 40°F to 115°F         SAE 5W-30 API SL         - 40°F to 115°F           Standard Oil Option         Ambient Colonit         - 40°F to 115°F         Genoline/Propare <td>Deut</td> <td></td> <td></td> <td>- 20°F to 90°F</td> <td colspan="3">SAE 5W-30 API CF/CG/CH-4</td> <td></td>	Deut			- 20°F to 90°F	SAE 5W-30 API CF/CG/CH-4				
Approved Attenates         See Engine Manual           Attenates         Construction         Construction           Radiator Capacity         C.311 gal (8.L)         C.338 gal (9.L)           Radiator Capacity         C.311 gal (8.L)         C.338 gal (9.L)           Radiator Fluid Type         DELO ELC 50:50           Benjne Type         Deutz D2011L081         Deutz D2011L041           Feal Type         Deutz D2011L031         Deutz D2011L041           Factory Fill         Ambient         - 20°F to 95°F         SAE 5W-30 API CF/CG/CH-4           Cold Lube Oil Option         Temperature         - 20°F to 95°F         SAE 5W-30 API CF/CG/CH-4           Arctic Lube Oil Option         - 40°F to 115°F         SAE 5W-30 API CF/CG/CH-4         - 40°F to 115°F           Approved Attenates         - 40°F to 115°F         SAE 5W-30 API CF/CG/CH-4         - 40°F to 115°F           Standard Oil Feal Type - Doal         Genoline/Propare         3.01 (40.Dui Fuel Genoline/Propare         - 40°F to 115°F           Standard Oil Feal Type - Doal         Conscript         3.45 gal (70.5 L)         2.45 gal (70.6 L)           Standard Oil Arctic Colonit         - 40°F to 115°F         SAE 5W-30 API SL         - 40°F to 115°F           Standard Oil Option         Ambient Colonit         - 40°F to 115°F         Genoline/Propare <td>ngine</td> <td></td> <td>•</td> <td>- 40°F to 115°F</td> <td colspan="3">SAE 0W-40 API CF/CG/CH-4</td> <td></td>	ngine		•	- 40°F to 115°F	SAE 0W-40 API CF/CG/CH-4				
Reditator Equatry 2         3.43 gal (131)           Reditator Fulial Type         DELD ELC 50/50           Desci ELC 50/50           Desci ELC 50/50           Bandard Oil Fuel Tank Capacity         Deutz D2011L03         Deutz D2011L04           Fuel Tank Capacity         45 gal (170.3 L)           Standard Oil Option         Col F to 115°F Cold Lube Oil Option         Col F to 115°F Cold Lube Oil Capacity         SAE 5W-30 API CF/CG/CH-4           Arrite Lube Oil Sump Capacity         1.40° to 115°F Col C + 45°C)         SAE 6W-30 API CF/CG/CH-4           Arrite Lube Oil Sump Capacity         1.40° to 145°F Col C + 45°C)         SAE 6W-30 API CF/CG/CH-4           Arrite Lube Oil Sump Capacity         1.40° to 145°F Col C + 45°C)         SAE 6W-30 API SL           Fuel Type - Dual         Colspan= Colspan="2">Colspan="2">Colspan= Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan= Colspan="2">Colspan="2">Colspan= Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan= Colspan="2">Colspan="2">Colspan= Colspan="2">Colspan="2"Colspan="2"Colspan="2" <th colspan<="" td=""><td>Ш</td><td></td><td></td><td>(</td><td colspan="3">See Engine Manual</td><td></td></th>	<td>Ш</td> <td></td> <td></td> <td>(</td> <td colspan="3">See Engine Manual</td> <td></td>	Ш			(	See Engine Manual			
Provide         Radiator Fluid Type         DELO ELC Stop           Fuel Type         Deutz D2011L03i         Deutz D2011L04i           Standard Oil Factory Fill Arctic Lube Oil Option         o"F to 115°F Fuel Type         SAE 15W-40 API CF/CG/CH-4           Cold Lube Oil Option         Ambient Cold Cube Oil Sump Capacity         -40°F to 115°F (-40°C to +45°C)         SAE 5W-30 API CF/CG/CH-4           Arctic Lube Oil Option         Ambient Cel Cube Oil Sump Capacity         -40°F to 115°F (-40°C to +45°C)         SAE 5W-30 API CF/CG/CH-4           Engine Type         3.0L GM Dual Fuel Cel Cube A5°C)         See Engine Manual         2.64 gal (10.0 L)           Fuel Type - Dual         Cassion/PPPopane         -40°F to 115°F (-40°C to +45°C)         See Engine Manual           Standard Oil Factory Fill Approved Aretic Colant         Ambient (-20°F to 115°F (-40°C to +45°C)         See Engine Manual           Standard Oil Factory Fill Approved Aretic Colant         Ambient (-20°F to 115°F (-40°C to +45°C)         See Engine Manual           Colant Capacity         -40°F to 115°F (-40°C to +45°C)         GM 50/50 Extended Life Colant           Colant Capacity         -40°F to 115°F (-40°C to +45°C)         GM 50/50 Extended Life Colant           Colant Capacity         -20°F to 115°F (-40°C to +45°C)         3.0 gal (11.4 L)           Engine Type         2.54 Kubota Dual Fuel         Gasoline/Propane									
Engine Type         Deutz D2011L03i         Deutz D2011L04i           Fuel Type         Diesel         Diesel           Fuel Tank Capeolty         45 gal (170.3 L)           Standard Oil Option         Ambient         -07F to 115°F         SAE 15W-40 API CF/CG/CH-4           Arctic Lube Oil Option         Ambient         -07F to 115°F         SAE 5W-30 API CF/CG/CH-4           Arctic Lube Oil Option         Limits         -07F to 115°F         SAE 5W-30 API CF/CG/CH-4           Arctic Lube Oil Sump Capacity         1.45 gal (5.5 L)         2.64 gal (10.0 L)           Engine Type         3.0 L GM Dual Fuel         -40°F to 115°F         SAE 5W-30 API CF/CG/CH-4           Standard Oil Perfore Type         3.0 L GM Dual Fuel         -40°F to 115°F         SAE 5W-30 API SL           Fuel Type - Dual         CasoninePropare         -40°F to 115°F         SAE 5W-30 API SL           Standard Oil Perfore Type         -40°F to 115°F         SAE 5W-30 API SL         -40°F to 115°F           Standard Oil Perfore Type         -40°F to 115°F         SAE 5W-30 API SL         -40°F to 115°F           Standard Oil Perfore Type         -40°F to 115°F         GM 50/50 Extended Life Coolant           Temperature Lumite         -20°F to 115°F         GM 60/40 Extended Life Coolant           Coolant         Caparity         3					2.38 ç			al (13L)	
The Type         Diesel           Standard Oil Factory Fill         Fuel Tank Capacity         45 gal (170.3 L)           Standard Oil Factory Fill         Ambient Option         0°F to 115°F (-18°C to +45°C)         SAE 15W-40 API CF/CG/CH-4           Cold Lube Oil Option         Ambient Option         -20°F to 90°F (-40°C to +45°C)         SAE 5W-30 API CF/CG/CH-4           Arctic Lube Oil Option         Emperature Lube Oil Sump Capacity         1.45 gal (55.1)         2.64 gal (10.0 L)           Engine Type         3.0L CM Dual Fuel         Gasoline/Propane           Fuel Tank Capacity         1.45 gal (5.1)         2.64 gal (10.0 L)           Standard Oil Factory Fill         Ambient Capacity         -40°F to 115°F (-40°C to +45°C)         Sae Engine Manual           Standard Oil Factory Fill         Ambient Coolant Capacity         -40°F to 115°F (-40°C to +45°C)         Sae Engine Manual           Martine         -20°F to 115°F (-40°F to 115°F         GM 60/40 Extended Life Coolant         -20°F to 115°F (-40°F to 115°F           Standard Oil Factory Fill         Ambient Coolant Capacity         -20°F to 115°F (-40°F to 115°F         GM 60/40 Extended Life Coolant           Coolant Capacity         -20°F to 115°F (-40°F to 115°F         GM 60/40 Extended Life Coolant         -20°F to 115°F           Standard Oil Factory Fill         Ambient (-20°F to 115°F         SAE 5W-30 API SL									
Fuel Tank Capacity         45 gal (170.3 L)           Standard Oil Factory Fill         Ambient Cold Lube Oil Option         0°F to 118°F (-18°C to +45°C)         SAE 15W-40 API CF/CG/CH-4           Cold Lube Oil Option         Ambient Option         -20°F to 90°F (-40°C to +45°C)         SAE 5W-30 API CF/CG/CH-4           Arctic Lube Oil Option         -40°F to 118°F (-40°C to +45°C)         SAE 5W-40 API CF/CG/CH-4           Apporved Alternates         -40°F to 118°F (-40°C to +45°C)         SAE 6W-40 API CF/CG/CH-4           Standard Oil Fuel Tank Capacity         1.45 gal (5.5 L)         2.64 gal (10.0 L)           Fuel Tank Capacity         1.45 gal (5.6 L)         2.64 gal (10.0 L)           Standard Oil Fuel Tank Capacity         -40°F to 118°F (-40°C to +45°C)         SAE 5W-30 API SL           Standard Oil Factory Fill         Ambient Temperature (-40°C to +45°C)         Sae Engine Manual           Standard Oil Factory Fill         Ambient Temperature (-40°C to +45°C)         Sae Engine Manual           Standard Oil Factory Fill         Ambient Colant         -20°F to 115°F (-40°C to +45°C)         GM 50/50 Extended Life Coolant           Fuel Tank Capacity         -20°F to 115°F (-40°C to +45°C)         GM 50/50 Extended Life Coolant           Fuel Tank Capacity         -20°F to 115°F (-40°C to +45°C)         Sae Solone/Propane           Fuel Tank Capacity         -20°F to 115°F (-40°C to +4									
Factory Fill         Of Fo 115°F         SAE 150/-40 API CF/CG/CH-4           Cold Lube Oil Option         Ambient Temperature         -20°F to 90°F         SAE 5W-30 API CF/CG/CH-4           Arctic Lube Oil Option         -40°F to 115°F         SAE 5W-30 API CF/CG/CH-4           Apporved Alternates         -40°F to 115°F         SAE 5W-30 API CF/CG/CH-4           Eube Oil Sump Capacity         1.45 gal (5.5 L)         2.64 gal (10.0 L)           Engine Type         3.0 LGM Dual Fuel Gasoline/Propane         -20°F to 115°F           Fuel Tank Capacity         -40°F to 115°F         SAE 5W-30 API SL           Fuel Tank Capacity         -40°F to 115°F         SAE 5W-30 API SL           Standard Oil Factory Fill         Ambient Atternates         -40°F to 115°F         SAE 5W-30 API SL           Standard Colon         Ambient Colon         -20°F to 115°F         GM 50/50 Extended Life Coolant           Option         Colant         Ambient Temperature Duints         -20°F to 115°F         GM 60/40 Extended Life Coolant           Vel Tank Capacity         -20°F to 115°F         GM 60/40 Extended Life Coolant         -40°F to 115°F           Fuel Tank Capacity         -20°F to 115°F         GM 60/40 Extended Life Coolant         -40°F to 115°F           Standard Colon         Ambient Temperature Approved         -20°F to 115°F         GM 60/40									
Option         -40°F to 115°F         SAE 0W-40 API CF/CG/CH-4           Apporved         Auternates         See Engine Manual           Auternates         Lube OII Sump Capacity         1.45 gal (5.5 L)         2.64 gal (10.0 L)           Engine Type         Outal Fuel Type - Dual         Gasoline/Propane           Fuel Tank Capacity         4.5 gal (170.3 L)         2.64 gal (10.0 L)           Standard Oil         Ambient         -40°F to 115°F         SAE 5W-30 API SL           Approved         Temperature         -40°F to 115°F         GM 50/50 Extended Life Coolant           Approved         Ambient         -20°F to 115°F         GM 50/50 Extended Life Coolant           Arctic Coolant         Ambient         -20°F to 115°F         GM 60/40 Extended Life Coolant           Fuel Type > Dual         Gasoline/Propane         -40°F to 115°F         GM 60/40 Extended Life Coolant           Arctic Coolant         Ambient         -20°F to 115°F         GM 60/40 Extended Life Coolant           Fuel Type > Dual         Gasoline/Propane         -40°F to 115°F         GM 60/40 Extended Life Coolant           Arctic Coolant         Ambient         -40°F to 115°F         Coolant Capacity         -30°F to 115°F           Standard Dil         Ambient         -20°F to 115°F         SAE SW-30 API SL         -60°F to 1	eutz								
Option         -40°F to 115°F         SAE 0W-40 API CF/CG/CH-4           Apporved         Auternates         See Engine Manual           Auternates         Lube OII Sump Capacity         1.45 gal (5.5 L)         2.64 gal (10.0 L)           Engine Type         Outal Fuel Type - Dual         Gasoline/Propane           Fuel Tank Capacity         4.5 gal (170.3 L)         2.64 gal (10.0 L)           Standard Oil         Ambient         -40°F to 115°F         SAE 5W-30 API SL           Approved         Temperature         -40°F to 115°F         GM 50/50 Extended Life Coolant           Approved         Ambient         -20°F to 115°F         GM 50/50 Extended Life Coolant           Arctic Coolant         Ambient         -20°F to 115°F         GM 60/40 Extended Life Coolant           Fuel Type > Dual         Gasoline/Propane         -40°F to 115°F         GM 60/40 Extended Life Coolant           Arctic Coolant         Ambient         -20°F to 115°F         GM 60/40 Extended Life Coolant           Fuel Type > Dual         Gasoline/Propane         -40°F to 115°F         GM 60/40 Extended Life Coolant           Arctic Coolant         Ambient         -40°F to 115°F         Coolant Capacity         -30°F to 115°F           Standard Dil         Ambient         -20°F to 115°F         SAE SW-30 API SL         -60°F to 1	jine - D				SAE 5W-30 API CF/CG/CH-4				
Appored Atternates         Lube Oil Sump Capacity         1.45 gal (5.5 L)         2.64 gal (10.0 L)           Engine Type         3.0 L GM Dual Fuel         Gasoline/Propane           Fuel Type > Dual         Gasoline/Propane           Fuel Type > Dual         Gasoline/Propane           Factory Fill         Ambient Temperature         - 40°F to 115°F           Approved Alternates         Ambient Lube Oil Capacity         - 40°F to 115°F           Standard Oil Anternates         Ambient Coolant         - 20°F to 115°F           Goolant Option         Ambient Limits         - 20°F to 115°F           Goolant Option         Ambient Limits         - 20°F to 115°F           GM 60/40 Extended Life Coolant         - 40°F to 115°F           Fuel Tank Capacity         - 30°F to 115°F           GM 60/40 Extended Life Coolant         - 40°F to 115°F           Fuel Tank Capacity         - 30°F to 115°F           Standard Oil Anternates         Ambient Fuel Tank Capacity         - 40°F to 115°F           Standard Oil Anternates         Ambient Coolant Capacity         - 40°F to 115°F           Standard Oil Anternates         Ambient Coolant Capacity         - 40°F to 115°F           Standard Dil Anternates         Ambient Coolant Capacity         - 40°F to 115°F           Standard Dil Arteric Coolant	Enç		Limits		SAE 0W-40 API CF/CG/CH-4				
Atternates         Lube Oil Sump Capacity         1.45 gal (5.5 L)         2.64 gal (10.0 L)           Engine Type         3.0. GM Dual Fuel         Gasoline/Propane           Fuel Type - Dual         Gasoline/Propane           Standard Oil         Ambient         -40°F to 115°F           Approved         Ambient         -40°C to +45°C)           Atternates         Colant         -40°C to +45°C)           Standard Oil         Ambient         -20°F to 115°F           Golant         Ambient         -20°F to 115°F           Colant         Ambient         -20°F to 115°F           Golant         Gasoline/Propane           Fuel Type - Dual         Gasoline/Propane           Fuel Type - Dual         Gasoline/Propane           Fuel Type - Dual         Gasoline/Propane           Fuel Tank Capacity         3.0 gal (11.4 L)           Fuel Tank Capacity         -40°F to 115°F           Gasoline/Propane         -40°F to 115°F           Fuel Tank Capacity         -2.5 L           Approved         Ambient         -20°F to 115°F<						See Engir	ne Manual	Manual	
Engine Type         3.0L GM Dual Fuel           Fuel Tark Capacity         4 dors for 118°F           Standard Oil Factory Fill         Ambient Temperature Limits         - 40°F to 118°F         SAE 5W-30 API SL           Colspan="2">Colspan= Colspan="2"           Colspan= Colspan="2"         Colspan= Colspan="2"           Colspan= Colspan="2"         Colspan= Colspan= Colspan=           Colspan= Colspan= Colspan= Colspan=         Colspan= Colspan= Colspan=           Fuel Type - Dual         Colspan= Colspan=         Colspan= Colspan= Colspan=         Colspan= Colspan= Colspan=         Colspan= Colspan= Colspan=         Colspan= Colspan= Colspan=          Colspan= Colspan		Alternates		Canaaitu	1 45 -	5			
Fuel Type - Dual         Gasoline/Propane           Standard Oil Factory Fill         Ambient Ampiont         - 40°F to 115°F Centre         SAE 5W-30         API SL           Ambient Approved         Colant         - 40°F to 115°F Colant         Colant         Standard Oil Colant         - 40°F to 115°F Colant         GM 50/50         Extended Life Coolant           Arctic Coolant Option         Ambient Temperature Limits         - 20°F to 115°F Colant         GM 60/40         Extended Life Coolant           Coolant Arctic Coolant         Ambient Temperature Limits         - 20°F to 115°F Coolant         GM 60/40         Extended Life Coolant           Fuel Tank Capacity         3.0 gal (11.4 L)         - 40°F to 115°F Coolant         GM 60/40         Extended Life Coolant           Fuel Tank Capacity         3.0 gal (170.3 L)         - 40°F to 115°F Fuel Tank Capacity         - 40°F to 115°F Coolant         Coolant           Standard Oil Factory Fill         Ambient Approved Atemates         - 40°F to 115°F Coolant         See Engine Manual           Lube Oil Capacity         - 20°F to 115°F Coolant         Coolant         - 40°F to 115°F Coolant         See Engine Manual           Standard Oil Factory Fill         Ambient Coolant         - 40°F to 115°F Coolant         Recochem 60/40         Extended Life Coolant           Gotart         Ambient Coolant         - 40°F									
Fuel Tank Capacity         45 gal (170.3 L)           Standard Oil Factory Fill         Ambient Temperature Limits         Ambient Temperature Limits         Ambient (-40°C to +45°C)         SAE 5W-30         API SL           Standard Coolant         Ambient Atternates         -40°F to 115°F (-40°C to +45°C)         See Engine Manual           Standard Coolant         Ambient Temperature Limits         -20°F to 115°F (-29°C to +45°C)         GM 50/50 Extended Life Coolant           Arctic Coolant         Ambient Temperature Diffion         -20°F to 115°F (-40°C to +45°C)         GM 60/40 Extended Life Coolant           Coolant         Ambient Temperature Limits         -40°F to 115°F (-40°C to +45°C)         GM 60/40 Extended Life Coolant           Standard Oil Factory Fill         Ambient Temperature Limits         -40°F to 115°F (-40°C to +45°C)         See Engine Manual           Standard Oil Factory Fill         Ambient Temperature Diffion         -40°F to 115°F (-29°C to +45°C)         Recochem 50/50 Extended Life Coolant           Standard Option         Ambient Temperature Diffion         -20°F to 115°F (-29°C to +45°C)         Recochem 60/40 Extended Life Coolant           V         Mabient Temperature Diffion         -20°F to 115°F (-29°C to +45°C)         Recochem 60/40 Extended Life Coolant           V         Mabient Temperature Diffion         -20°F to 115°F (-40°C to +45°C)         Recochem 60/40 Extended									
Factory Fill     Ambient Temperature Alternates     Lube 101 Capacity     SAE 5W-30     API SL       Standard Coolant     Lube 0il Capacity     1.19 gal (4.5 L)       Standard Coolant     Ambient Temperature     - 20°F to 115°F (- 20°C to + 45°C)     GM 50/50 Extended Life Coolant       Arctic Coolant Option     Ambient Limits     - 20°F to 115°F (- 40°C to + 45°C)     GM 60/40 Extended Life Coolant       Standard Oi Puel Type - Dual     Gasoline/Propane     - 20°F to 115°F (- 40°C to + 45°C)     GM 60/40 Extended Life Coolant       Standard Oil Factory Fill     Ambient - 40°F to 115°F     - 20°F to 115°F (- 40°C to + 45°C)     Sac 5W-30 API SL       Standard Oil Factory Fill Approved Alternates     Ambient - 40°F to 115°F (- 40°C to + 45°C)     - 20°F to 115°F SAE 5W-30 API SL       Standard Oil Factory Fill Arctic Coolant Option     - 20°F to 115°F (- 40°C to + 45°C)     Recochem 50/50 Extended Life Coolant       V     - 20°F to 115°F (- 40°C to + 45°C)     Recochem 60/40 Extended Life Coolant       V     - 20°F to 115°F (- 40°C to + 45°C)     - 20°F to 115°F (- 40°C to + 45°C)       Hyd Cooler Option     Ambient Temperature Limits     - 20°F to 115°F (- 40°C to + 45°C)     - 20°F to 115°F (- 40°C to + 45°C)       Hyd Cooler Option     Ambient Temperature Limits     - 20°F to 10°F (- 40°C to + 45°C)     - 20°F to 10°F (- 40°C to + 45°C)       Approved Alternates     Ambient Temperature Limits     - 15°F to 100°F (- 40°C to + 45°C) <td></td> <td></td> <td></td> <td></td> <td colspan="4"></td>									
Image: Standard Coolant     Ambient Temperature Limits     -20°F to 115°F (-29°C to +45°C)     GM 50/50 Extended Life Coolant       Arctic Coolant     Option     -40°F to 115°F (-29°C to +45°C)     GM 60/40 Extended Life Coolant       Option     Coolant Capacity     3.0 gal (11.4 L)       Engine Type - Dual       Standard Oil Factory Fill       Approved     Ambient Temperature Limits     -40°F to 115°F (-40°C to +45°C)       Standard Oil Factory Fill       Approved     Ambient Temperature Limits     -40°F to 115°F (-40°C to +45°C)       Standard Oil Factory Fill Approved Atternates       Approved     Ambient Temperature Limits     -20°F to 115°F (-29°C to +45°C)       Standard Oil Factory Fill Approved Atternates     Ambient Coolant Capacity     2.5 gal (9 L)       Standard Oil Factory Fill Arctic Coolant Ambient Option     -20°F to 115°F (-29°C to +45°C)       Recochem 60/40 Extended Life Coolant       Arctic Coolant Ambient Temperature Limits     -20°F to 115°F (-29°C to +45°C)       Not of to 115°F (-29°C to +45°C)       Recochem 60/40 Extended Life Coolant       Arctic Coolant Capacity       Arctic Colin Option     Ambient Temperature Limits     -20°F to 115°F (-29°C to +45°C)       Arctic Colon Arctic Coolant Capacity     -30°F to 115°F (-28°C to +45°C)     Old cooler option recommended <td>5</td> <td></td> <td></td> <td></td> <td colspan="3">SAE 5W-30 API SL</td> <td></td>	5				SAE 5W-30 API SL				
Image: Standard Coolant     Ambient Temperature Limits     -20°F to 115°F (-29°C to +45°C)     GM 50/50 Extended Life Coolant       Arctic Coolant     Option     -40°F to 115°F (-29°C to +45°C)     GM 60/40 Extended Life Coolant       Option     Coolant Capacity     3.0 gal (11.4 L)       Engine Type - Dual       Standard Oil Factory Fill       Approved     Ambient Temperature Limits     -40°F to 115°F (-40°C to +45°C)       Standard Oil Factory Fill       Approved     Ambient Temperature Limits     -40°F to 115°F (-40°C to +45°C)       Standard Oil Factory Fill Approved Atternates       Approved     Ambient Temperature Limits     -20°F to 115°F (-29°C to +45°C)       Standard Oil Factory Fill Approved Atternates     Ambient Coolant Capacity     2.5 gal (9 L)       Standard Oil Factory Fill Arctic Coolant Ambient Option     -20°F to 115°F (-29°C to +45°C)       Recochem 60/40 Extended Life Coolant       Arctic Coolant Ambient Temperature Limits     -20°F to 115°F (-29°C to +45°C)       Not of to 115°F (-29°C to +45°C)       Recochem 60/40 Extended Life Coolant       Arctic Coolant Capacity       Arctic Colin Option     Ambient Temperature Limits     -20°F to 115°F (-29°C to +45°C)       Arctic Colon Arctic Coolant Capacity     -30°F to 115°F (-28°C to +45°C)     Old cooler option recommended <td>1e - Gl</td> <td></td> <td></td> <td></td> <td colspan="3">See Engine Manual</td> <td></td>	1e - Gl				See Engine Manual				
Image: Standard Coolant     Ambient Temperature Limits     -20°F to 115°F (-29°C to +45°C)     GM 50/50 Extended Life Coolant       Arctic Coolant     Option     -40°F to 115°F (-29°C to +45°C)     GM 60/40 Extended Life Coolant       Option     Coolant Capacity     3.0 gal (11.4 L)       Engine Type - Dual       Standard Oil Factory Fill       Approved     Ambient Temperature Limits     -40°F to 115°F (-40°C to +45°C)       Standard Oil Factory Fill       Approved     Ambient Temperature Limits     -40°F to 115°F (-40°C to +45°C)       Standard Oil Factory Fill Approved Atternates       Approved     Ambient Temperature Limits     -20°F to 115°F (-29°C to +45°C)       Standard Oil Factory Fill Approved Atternates     Ambient Coolant Capacity     2.5 gal (9 L)       Standard Oil Factory Fill Arctic Coolant Ambient Option     -20°F to 115°F (-29°C to +45°C)       Recochem 60/40 Extended Life Coolant       Arctic Coolant Ambient Temperature Limits     -20°F to 115°F (-29°C to +45°C)       Not of to 115°F (-29°C to +45°C)       Recochem 60/40 Extended Life Coolant       Arctic Coolant Capacity       Arctic Colin Option     Ambient Temperature Limits     -20°F to 115°F (-29°C to +45°C)       Arctic Colon Arctic Coolant Capacity     -30°F to 115°F (-28°C to +45°C)     Old cooler option recommended <td>ngi</td> <td colspan="3"></td> <td colspan="4">1.19 gal (4.5 L)</td>	ngi				1.19 gal (4.5 L)				
Arctic Coolant Option         Limits         -40°F to 115°F (-40°C to +45°C)         GM 60/40 Extended Life Coolant           Coolant Capacity         3.0 gal (11.4 L)           Engine Type         2.5L Kubota Dual Fuel           Gasoline/Propane         Gasoline/Propane           Fuel Type - Dual         Gasoline/Propane           Standard Oli Factory Fill         Ambient Temperature Limits         -40°F to 115°F           Atternates         Lube Oil Capacity         2.5 gal (9 L)           Standard Option         Ambient Temperature Limits         -20°F to 115°F         Recochem 50/50 Extended Life Coolant           Arctic Coolant Option         Ambient Temperature Limits         -20°F to 115°F         Recochem 60/40 Extended Life Coolant           Very to to 445°C)         Recochem 60/40 Extended Life Coolant         -40°F to 115°F           Standard Option         Coolant Capacity         3.17 gal (12 L)           Hyd Cooler Option         J00°F to 115°F (+38°C to +45°C)         Oil cooler option recommended           Standard Factory Fill         Ambient Temperature Limits         -15°F to 100°F (+28°C to +48°C)         Shell Tellus T46           Actic Oil Option         Ambient Temperature Limits         -15°F to 100°F (-26°C to +38°C)         Shell Tellus T46           Actic Oil Option         Ambient Temperature Limits         -15°F to 100°F (-26°C t	ш	Coolant			GM 50/50 Extended Life Coolant				
Image: Second Standard Oil Factory Fill         Engine Type         2.5L Kubota Dual Fuel           Standard Oil Factory Fill         Fuel Tank Capacity         45 gal (170.3 L)           Approved Alternates         Imits         -40°F to 115°F         SAE 5W-30 API SL           Standard Oil Factory Fill         Ambient Temperature Limits         -20°F to 115°F         See Engine Manual           Standard Coolant         Ambient Temperature Limits         -20°F to 115°F         Recochem 50/50 Extended Life Coolant           Arctic Coolant         Ambient Temperature Limits         -20°F to 115°F         Recochem 60/40 Extended Life Coolant           Standard Factory Fill         Ambient Temperature Limits         -40°F to 115°F         Recochem 60/40 Extended Life Coolant           Option         Coolant Capacity         3.17 gal (12 L)         3.17 gal (12 L)           Hyd Cooler Option         -15°F to 100°F         Oil cooler option recommended           Standard Factory Fill         Ambient Temperature Limits         -15°F to 100°F           Approved Alternates         Ambient Temperature Limits         -40°F to 100°F           -40°F to 10°°F         Coolant Capacity         -40°F to 100°F           Approved Alternates         -40°F to 100°F         Esso/Mobil UNIVIS HVI 26           -40°F to 100°F         -40°F to 100°F         Coolart Capacity Coolaro			Limits	(- 40°C to +45°C)					
Image: Property and provided in the property of the proproperty of the property of the property of the property							· · · ·		
Fuel Tank Capacity     45 gal (170.3 L)       Standard Oil Factory Fill Approved Alternates     Ambient Temperature Limits     -40°F to 115°F (-40°C to +45°C)       Standard Approved Alternates     Ambient Limits     -40°F to 115°F (-40°C to +45°C)     SAE 5W-30 API SL       Standard Coolant Option     Ambient Temperature Limits     -20°F to 115°F (-29°C to +45°C)     Recochem 50/50 Extended Life Coolant       Hyd Cooler Option     Ambient Limits     100°F to 115°F (-40°C to +45°C)     Recochem 60/40 Extended Life Coolant       Hyd Cooler Option     Ambient Temperature Limits     100°F to 115°F (-40°C to +45°C)     Recochem 60/40 Extended Life Coolant       Hyd Cooler Option     Ambient Temperature Limits     100°F to 115°F (-40°C to +38°C)     Oil cooler option recommended       Hyd Cooler Option     Ambient Temperature Limits     Ambient Temperature Limits     100°F to 115°F (-26°C to +38°C)     Oil cooler option recommended       Approved Alternates     Ambient Colar Capacity     100°F to 10°F (-40°C to +38°C)     Esso/Mobil UNIVIS NVIS NV2 Petro-Canada HYDREX EXTREME									
Standard Oil Factory Fill Approved Alternates       Ambient Temperature Limits       - 40°F to 115°F (-40°C to +45°C)       SAE 5W-30 API SL         See Engine Manual Alternates       Lube Oil Capacity       See Engine Manual         Standard Coolant Arctic Coolant Option       Ambient Temperature Limits       - 20°F to 115°F (-29°C to +45°C)       Recochem 50/50 Extended Life Coolant         Very Standard Option       Ambient Temperature Limits       - 20°F to 115°F (-40°C to +45°C)       Recochem 60/40 Extended Life Coolant         Very Standard Option       Ambient Temperature Limits       - 40°F to 115°F (-40°C to +45°C)       Recochem 60/40 Extended Life Coolant         Very Standard Option       Ambient Temperature Limits       100°F to 115°F (-40°C to +45°C)       Oil cooler option recommended         Maternates       Ambient Temperature Limits       100°F to 115°F (-26°C to +38°C)       Oil cooler option recommended         Approved Alternates       Ambient Temperature Limits       Ambient Temperature Limits       15°F to 100°F (-26°C to +38°C)       Esso/Mobil UNIVIS HVI 26 Petro-Canada HYDREX EXTREME         40°F to 80°F (-40°C to +27°C)       Mobilfluid 424, Esso UNIVIS N46, Chevron Rycon MV       -40°F to 80°F (-40°C to +27°C)       Mobil DTE 13M, Esso UNIVIS N22 Petro-Canada HYDREX MV Arctic 15		<u> </u>							
Horization       Temperature Limits       (-29°C to 1443 C)         Arctic Coolant Option       Limits       -40°F to 115°F (-40°C to +45°C)       Recochem 60/40 Extended Life Coolant         Hyd Cooler Option       Coolant Capacity       3.17 gal (12 L)         Hyd Cooler Option	lbota	Factory Fill			SAE 5W-30 API SL				
Horization       Temperature Limits       (-29°C to 1443 C)         Arctic Coolant Option       Limits       -40°F to 115°F (-40°C to +45°C)       Recochem 60/40 Extended Life Coolant         Hyd Cooler Option       Coolant Capacity       3.17 gal (12 L)         Hyd Cooler Option	-ĸ				See Engine Manual				
Horization       Temperature Limits       (-29°C to 1443 C)         Arctic Coolant Option       Limits       -40°F to 115°F (-40°C to +45°C)       Recochem 60/40 Extended Life Coolant         Hyd Cooler Option       Coolant Capacity       3.17 gal (12 L)         Hyd Cooler Option	ine		Lube Oil Cap	pacity		2.5 ga	ll (9 L)		
Option         Limits         (-40°C to +45°C)         Recorder 60/40 Extended Life Coolant           Hyd Cooler Option           Standard Factory Fill         Hyd Cooler Option         100°F to 115°F (+38°C to +45°C)         Oil cooler option recommended           Arctic Oil Option         Ambient Temperature Limits         Ambient (-40°F to 100°F (-40°C to +38°C)         Shell Tellus T46           Approved Alternates         -15°F to 100°F (-40°C to +38°C)         Esso/Mobil UNIVIS HVI 26 Petro-Canada HYDREX EXTREME           -15°F to 100°F (-40°F to 80°F (-40°C to +27°C)         Mobilfluid 424, Esso UNIVIS N46, Chevron Rycon MV	Eng	Coolant		(- 29°C to +45°C)	Recochem 50/50 Extended Life Cool		ant		
Image: Coolant Capacity       3.17 gal (12 L)         Hyd Cooler Option       Hyd Cooler Option       Image: Coolant Capacity       3.17 gal (12 L)         Standard Factory Fill       Hyd Cooler Option       Image: Coolant Capacity       Standard         Arctic Oil Option       Ambient Temperature Limits       Ambient (-40°F to 100°F       Oil cooler option recommended         Approved Alternates       Approved (-40°C to +38°C)       -40°F to 100°F (-40°C to +38°C)       Esso/Mobil UNIVIS HVI 26 Petro-Canada HYDREX EXTREME         -40°F to 80°F (-40°C to +27°C)       Mobilfluid 424, Esso UNIVIS N46, Chevron Rycon MV					R	ecochem 60/40 Ex	tended Life Cool	ant	
Image: Standard Factory Fill     Ambient Temperature Limits     Ambient Temperature Limits     -15°F to 100°F     Shell Tellus T46       Approved Alternates     -40°F to 100°F     -26°C to +38°C)     -15°F to 100°F       -40°F to 80°F     -40°F to 80°F     Mobil fluid 424, Esso UNIVIS N46, Chevron Rycon MV       -40°F to 80°F     -40°F to 80°F     Mobil DTE 13M, Esso UNIVIS N22					3.17 gal (12 L)				
Standard Factory Fill       Standard Factory Fill       Ambient       -15°F to 100°F (-26°C to +38°C)       Shell Tellus T46         Arctic Oil Option       Ambient       -40°F to 100°F (-40°C to +38°C)       Esso/Mobil UNIVIS HVI 26 Petro-Canada HYDREX EXTREME         Approved Alternates       -15°F to 100°F (-40°C to +38°C)       Mobilfluid 424, Esso UNIVIS N46, Chevron Rycon MV         - 40°F to 80°F (-40°C to +27°C)       Mobil DTE 13M, Esso UNIVIS N22 Petro-Canada HYDREX MV Arctic 15					Oil cooler option recommended				
Arctic Oil Option       Ambient Temperature Limits       -40°F to 100°F (-40°C to +38°C)       Esso/Mobil UNIVIS HVI 26         Approved Alternates       -40°F to 100°F (-40°C to +38°C)       Petro-Canada HYDREX EXTREME         -15°F to 100°F (-26°C to +38°C)       Mobilfluid 424, Esso UNIVIS N46, Chevron Rycon MV         -40°F to 80°F (-40°C to +27°C)       Mobil DTE 13M, Esso UNIVIS N22 Petro-Canada HYDREX MV Arctic 15	Ē			-15°F to 100°F		Shell Te	llus T46		
Approved     (-20 C to +36 C)       Alternates     - 40°F to 80°F     Mobil DTE 13M, Esso UNIVIS N22       (- 40°C to +27°C)     Petro-Canada HYDREX MV Arctic 15	Hydraulic Oi		Temperature	- 40°F to 100°F					
- 40°F to 80°F         Mobil D1E 13M, ESSO 00013 N22           (- 40°C to +27°C)         Petro-Canada HYDREX MV Arctic 15		Approved			Mobilfluid 424, Esso UNIVIS N46, Chevron Rycon M			Rycon MV	
		Alternates							
60628AS300			Hydraulic Tank		59 gal (223.3 L)				

### Table 4.2b Specifications and Features

60628AG-ANSI

SKYJACK

#### Table 4.3 Owner's Annual Inspection Record



This decal is located on the control compartment cowling. It must be completed after an annual inspection has been completed. Do not use the aerial platform if an inspection has not been recorded in the last 13 months.

	Pictorial	Description
*		Inspection Date
**	<b>†?</b>	Inspector Signature

#### **Table 4.4 Maximum Platform Capacities**

	SJ 40T	SJ 45T	SJ 61T	SJ 66T
Total Capacity	650 lb. (295 kg)	500 lb. (227 kg)	500 lb. (227 kg)	500 lb. (227 kg)
	2 Persons	2 Persons	2 Persons	2 Persons
Maximum Wind	28 mph(12.5 m/s)	28 mph(12.5 m/s)	28 mph(12.5 m/s)	28 mph(12.5 m/s)
Maximum Side Force	90 lbf (400 N)			
				1062AB ANSI

1062AB\_ANSI

	SJ 40T/45T	SJ 61T/66T
Tire Size	12" x 16.5" (30.5 cm x 41.9 cm)	15" x 19.5" (38.1 cm x 49.5 cm)
Pressure	65 psi (448.2 kPa)	95 psi (655 kPa)
Tire Ply Rating	10	16
Wheel Nuts Torque	290 ft-lb (393.2 Nm)	290 ft-lb (393.2 Nm)

## Table 4.5 Tire/Wheel Specifications

60565AD-ANSI



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 Skyjackapproved type. Failure to operate with matched approved tires in good condition may result in death or serious injury.



MODEL	Gross Aeri	al Platform	Total Aerial Platform Load					
(with Air Filled Tires)	Weight		Wheel		LCP		OUP	
(with Air Theu Thes)	lb.	kg	lb.	kg	psi	kPa	psf	kPa
SJ 40T	14,750	6,695	7,600	3,450	130	900	193	9.3
SJ 45T	15,315	6,950	8,000	3,630	135	930	200	9.5
SJ 61T	24,000	10,890	12,360	5,600	145	1000	330	15.8
SJ 66T	27,200	12,340	13,900	6,300	165	1140	372	17.8

## Table 4.6 Floor Loading Pressure

MODEL	Gross Aeri	al Platform		T	otal Aerial F	Platform Loa	d	
	We	ight	Wh	ieel	LCP		OUP	
(with Foam Filled Tires)	lb.	kg	lb.	kg	psi	kPa	psf	kPa
SJ 40T	15,550	7,055	7,600	3,450	130	900	193	9.3
SJ 45T	16,115	7,310	8,000	3,630	135	930	200	9.5
SJ 61T	25,500	11,567	12,360	5,600	145	1000	330	15.8
SJ 66T	28,700	13,018	13,900	6,300	165	1140	372	17.8

60562AH-ANSI

Gross Aerial Platform Weight = Weight + platform capacity

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

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

Welder option will add approximately 350 lb. (158.8 kg) to total aerial platform weight and 175 lb. (79.4 kg) to max. wheel load. NOTE:

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

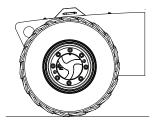
### Locally Concentrated Pressure (LCP):

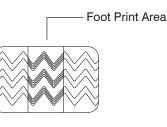
Foot Print Area identified by test.

Wheel Load

LCP =

Foot Print Area





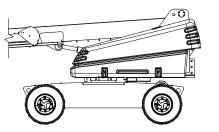
SKYJACK

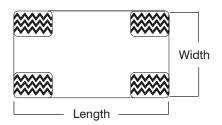
## **Overall Uniform Pressure (OUP):**

Base Area = Length x Width

OUP = Aerial Platform Weight + Capacity

Base Area





#### **General Maintenance**

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

Frequency	Daily	3 months or 150 hours Yearly	Frequency	Daily	3 months or 150 hours	Yearly
Visual and Daily Maintenance Inspecti	ons		Rotary Actuator	A		
Labels	А		Jib (If Equipped)	A		
Electrical	А		Boom	A		
Limit Switches	А		Cylinders	А		
Hydraulic	А		Wear Pads	А		
Engine Compartment			Hoses	А		
Main Power Disconnect Switch	А		Power Track	А		
Battery	А		Cables (61T/66T)	А	B*†	
Swing Drive Motor	А		Optional Equipment/Attachments		<b>D</b> 1	
Turret Rotation Gear	А		Hydraulic Generator (If Equipped)	А		
Rotary Manifold	A		Battery Warmer/Hydraulic Oil Heater (If Equipped)	А		
High Pressure Filter (40T/45T)	A		Welder (If Equipped)	А		
Hydraulic Pumps	А		Work Light (If Equipped)	А		
Muffler and Exhaust	А		Flashing Amber Light (If Equipped)	А		
Engine Pivot Tray	А		Glazier Tray (If Equipped)	А		
Engine Oil Level	А		Arctic Weather Package (If Equipped)	А		
Engine Air Filter	А		Function Tests			
Fuel Leaks	А		Test Main Power Disconnect Switch	А		
Control Compartment		B*†	Base Control Console			
Base Control Console	А	₽ <sup>™</sup> Ţ	Test Emergency Stop	А		
Hydraulic Tank	A		Test Function Enable Switch & All Boom Functions	А		
Hydraulic Oil	A		Test Platform Self-leveling	А		
Hydraulic Return Filter	A		Test Emergency Power	А		
Brake and Main Manifolds	A		Test Base/Off/Platform Switch	А		
Emergency Power Unit	A		Test Positive Air Shutoff (If Equipped)	А		
Fuel Tank	A		Platform Control Console			
Fuel Leaks	А		Test Footswitch	А		
Base			Test Emergency Stop	А	B*†	
Turret Transportation Lock	A		Test Steering	А		
Drive Axle	A		Test Driving Function	А		
Oscillating Cylinder Assembly	А		Test Driving Speed	А		
Steer Cylinder Assembly	А		Test Emergency Power	А		
Tie Rod	А		Test Horn	А		
Wheel/Tire Assembly	А		Test Brakes	А		
Manuals	А		Test Manual Platform Leveling	А		
Platform Assembly	А		Test Differential Lock Switch	А		
Platform Control Console	А		Test Oscillating Axles	А		
			Test Cables (61T/66T)	A		

#### Table 4.7 Maintenance and Inspection Schedule

60559AL-ANSI

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.



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





## Table 4.8 Operator's Checklist



Serial Number:

Model:

Hourmeter Reading:

Date:

Time: \_\_\_\_

Operator's Name (Printed):

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

P	-	PASS

- F FAIL
- R REPAIRED

NA - NOT APPLICABLE

	N/A	Ρ	F	R	
Visual and Daily Maintenance Inspec	tions				Rotary Actuator
Labels					Jib (If Equipped)
Electrical					Boom
Limit Switches					Cylinders
Hydraulic					Wear Pads
Engine Compartment					Hoses
Main Power Disconnect Switch					Power Track
Battery					Cables (61T/66T)
Swing Drive Motor					<b>Optional Equipment/Attachm</b>
Turret Rotation Gear					Hydraulic Generator (If Equippe
Rotary Manifold					Battery Warmer/Hydraulic Oil H
High Pressure Filter (40T/45T)					Welder (If Equipped)
Hydraulic Pumps					Work Light (If Equipped)
Muffler and Exhaust					Flashing Amber Light (If Equipp
Engine Pivot Tray					Glazier Tray (If Equipped)
Engine Oil Level					Arctic Weather Package (If Equ
Engine Air Filter					Function Tests
Fuel Leaks					Test Main Power Disconnect S
Control Compartment					Base Control Console
Base Control Console					Test Emergency Stop
Hydraulic Tank					Test Function Enable Switch &
Hydraulic Oil					Test Platform Self-leveling
Hydraulic Return Filter					Test Emergency Power
Brake and Main Manifolds					Test Base/Off/Platform Switch
Emergency Power Unit					Test Positive Air Shutoff (If Equ
Fuel Tank					Platform Control Console
Fuel Leaks					Test Footswitch
Base					Test Emergency Stop
Turret Transportation Lock					Test Steering
Drive Axle					Test Driving Function
Oscillating Cylinder Assembly					Test Driving Speed
Steer Cylinder Assembly					Test Emergency Power
Tie Rod					Test Horn
Wheel/Tire Assembly					Test Brakes
Manuals					Test Manual Platform Leveling
Platform Assembly					Test Differential Lock Switch
Platform Control Console					Test Oscillating Axles
					Test Cables (61T/66T)

Operator's Signature:

#### **INSPECTION FREQUENCY**

- DAILY FREQUENTLY

ANNUALLY BI-ANNUALL **BI-ANNUALLY** 

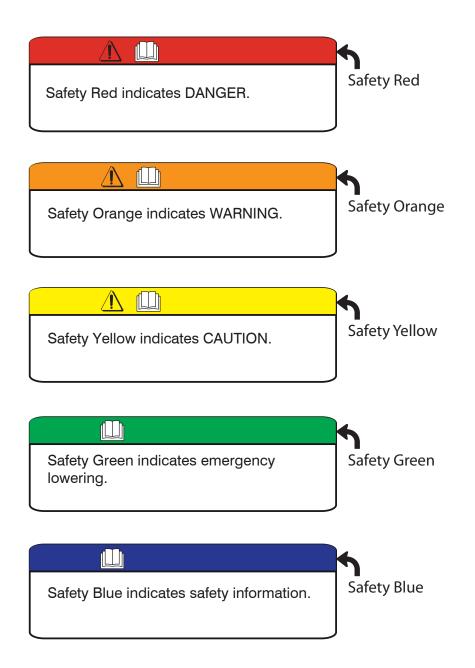
	N/A	Ρ	F	R
Rotary Actuator				
Jib (If Equipped)				
Boom				
Cylinders				
Wear Pads				
Hoses				
Power Track				
Cables (61T/66T)				
Optional Equipment/Attachments				
Hydraulic Generator (If Equipped)				
Battery Warmer/Hydraulic Oil Heater (If Equipped)				
Welder (If Equipped)				
Work Light (If Equipped)				
Flashing Amber Light (If Equipped)				
Glazier Tray (If Equipped)				
Arctic Weather Package (If Equipped)				
Function Tests				
Test Main Power Disconnect Switch				
Base Control Console				
Test Emergency Stop				
Test Function Enable Switch & All Boom Functions				
Test Platform Self-leveling				
Test Emergency Power				
Test Base/Off/Platform Switch				
Test Positive Air Shutoff (If Equipped)				
Platform Control Console				
Test Footswitch				
Test Emergency Stop				
Test Steering				
Test Driving Function				
Test Driving Speed				
Test Emergency Power				
Test Horn				
Test Brakes				
Test Manual Platform Leveling				
Test Differential Lock Switch				
Test Oscillating Axles				
Test Cables (61T/66T)				

Note:

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



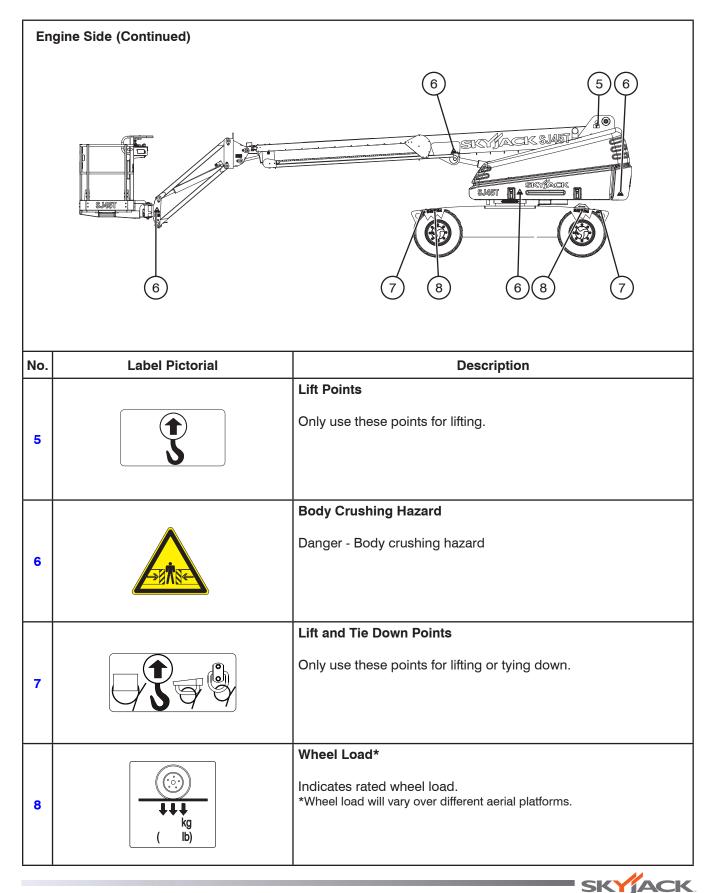
## Label Legend



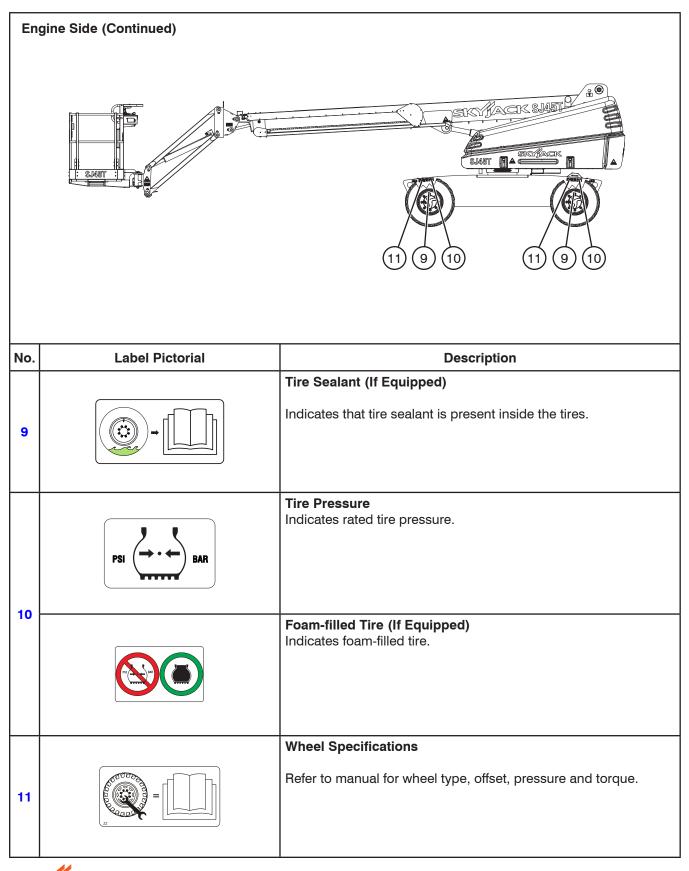


Eng	gine Side	
No.	Label Pictorial	Description
1		Crushing Hazard Danger - Crushing hazard
2	T T T T T T T T T T T	Warning - Do Not Alter Do not alter or disable limit switches or other safety devices.
3	SJ45T	<b>Model Number*</b> Product Identifier *Model number will vary, may not be as shown.
4	SKYJACK	<b>Skyjack Logo</b> Skyjack







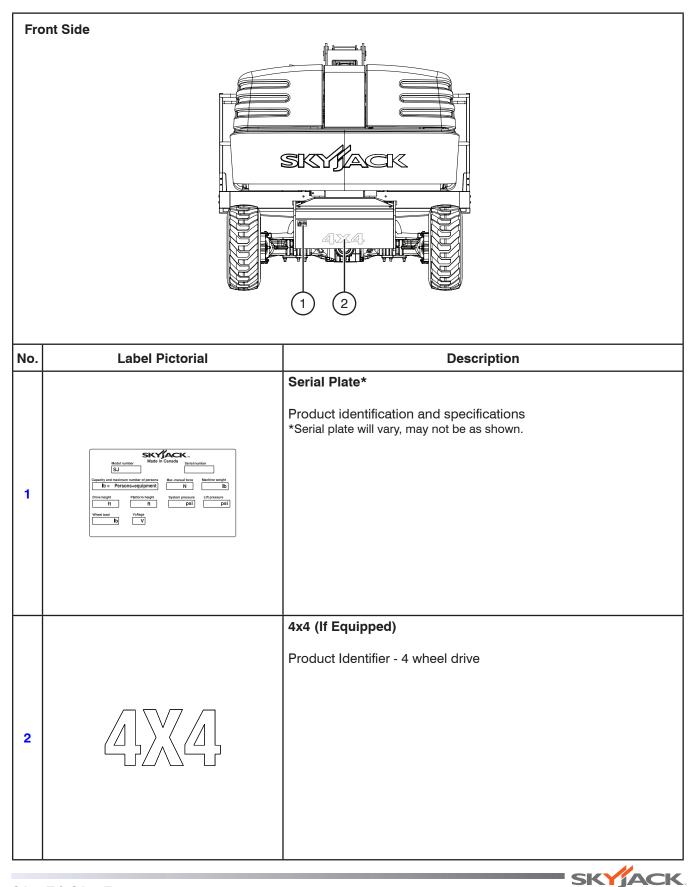




En	gine Compartment	
No.	Label Pictorial	Description
1		<ul> <li>Winching/Towing/Pushing Procedure Refer to Operating manual.</li> <li>1. Block or chock wheels to prevent aerial platform from rolling.</li> <li>2. Turn main power disconnect switch to off position. At engine side:</li> <li>3. Locate bypass valve (marked with yellow colour) on inboard side of drive pump.</li> <li>4. Rotate bypass valve flat using pliers or 1/4" (7mm) wrench by 90 degrees (clockwise). At hydraulic tank side:</li> <li>5. Locate brake valve and pump.</li> <li>6. Push in black knob.</li> <li>7. Pump by pushing red knob in and out until firm resistance is felt or until 300 psi/21 bar shows on the gauge (if equipped).</li> <li>Brake is now released.</li> <li>8. A) Remove blocks from wheels. B) Push/tow/winch to desired location.</li> <li>9. Block or chock wheels to prevent aerial platform from rolling. At hydraulic tank side:</li> <li>10. Reset brake by pulling out black knob. At engine side:</li> <li>11. Close bypass valve by rotating 90 degrees (counterclockwise) to normal condition (flat is parallel to shaft axis).</li> </ul>



No.       Label Pictorial       Description         2       Image: Construct of the second se	En	gine Compartment	
2       Image: Second sec	No.	Label Pictorial	Description
3       Image: Do not alter or disable limit switches or other safety devices.         4       Image: Do not alter or disable limit switches or other safety devices.         4       Image: Do not alter or disable limit switches or other safety devices.         4       Image: Do not alter or disable limit switches or other safety devices.         4       Image: Do not alter or disable limit switches or other safety devices.         4       Image: Do not alter or disable limit switches or other safety devices.         4       Image: Do not alter or disable limit switches or other safety devices.         4       Image: Do not alter or disable limit switches or other safety devices.         4       Image: Do not alter or disable limit switches or other safety devices.         4       Image: Do not alter or disable limit switches or other safety devices.         4       Image: Do not alter or disable limit switches or other safety devices.         4       Image: Do not alter or disable limit switches or other safety devices.         4       Image: Do not alter or disable limit switches or other safety devices.         4       Image: Do not alter or disable limit switches or other safety devices.         5       Image: Do not alter or disable limit switches or other safety devices.         6       Image: Do not alter or disable limit switches or other safety devices.         6       Image: Do not alter or disable limit switches	2		
4       Image: Constraint of the second sector of the	3		
	4		
	5		



Co	ntrol Side		
No.	Label F	Pictorial	Description
1	S		Lift Points Only use these points for lifting.
			Skyjack Logo
2	SKYJACK		Skyjack
	Uters low suffir fuel only.	Diesel, EN 590, DN 51 628	Diesel Ultra Low Sulfur Only Diesel Ultra Low Sulfur Only Diesel Use diesel fuel only.
3			Unleaded Fuel Use unleaded gasoline only.
4			No Smoking Do not smoke near this location.

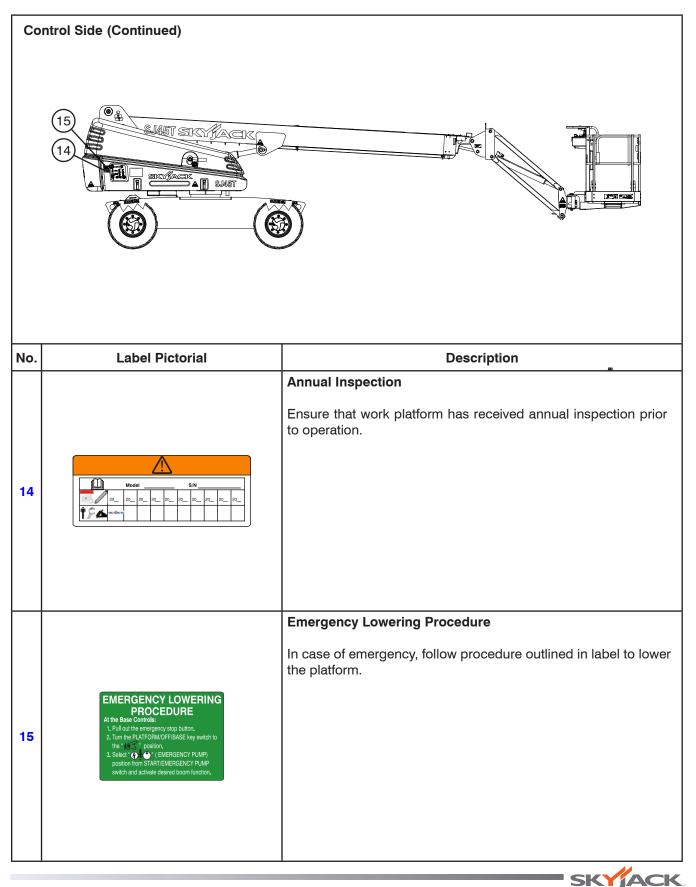


Co	ntrol Side (Continued)	
No.	Label Pictorial	Description
5		<b>Open Fuel Cap Slowly</b> Refer to Operating manual. Open fuel cap slowly to prevent fuel from spraying out of fuel tank.
6	SJ45T	Model Number* Product Identifier *Model number will vary, may not be as shown.
7		Body Crushing Hazard Danger - Body crushing hazard
8		<b>Crushing Hazard</b> Danger - Crushing hazard
9		Lift and Tie Down Points Only use these points for lifting or tying down.

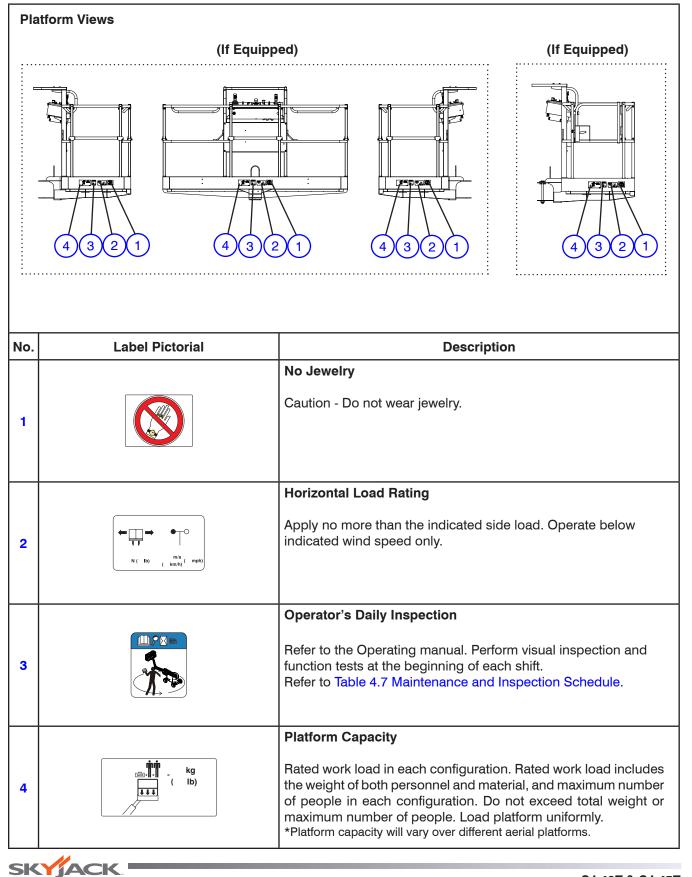


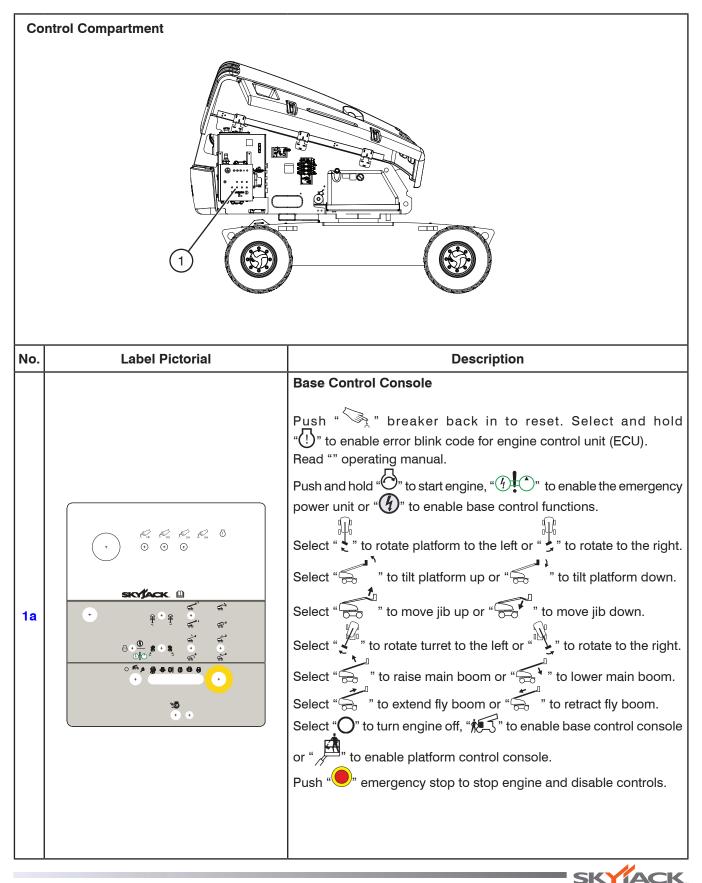


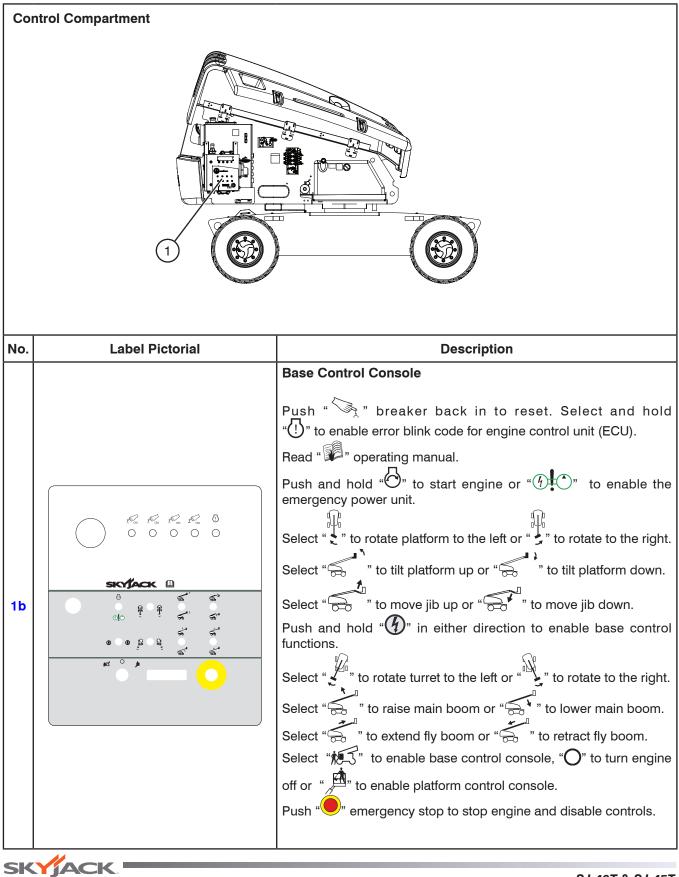
Со	ntrol Side (Continued)	
No.	Label Pictorial	Description
10		Tire Sealant (If Equipped) Indicates that tire sealant is present inside the tires.
11		Wheel Load* Indicates rated wheel load. *Wheel load will vary over different aerial platforms.
	PSI BAR	Tire Pressure Indicates rated tire pressure.
12		Foam-filled Tire (If Equipped) Indicates foam-filled tire.
13		Wheel Specifications Refer to manual for wheel type, offset, pressure and torque.

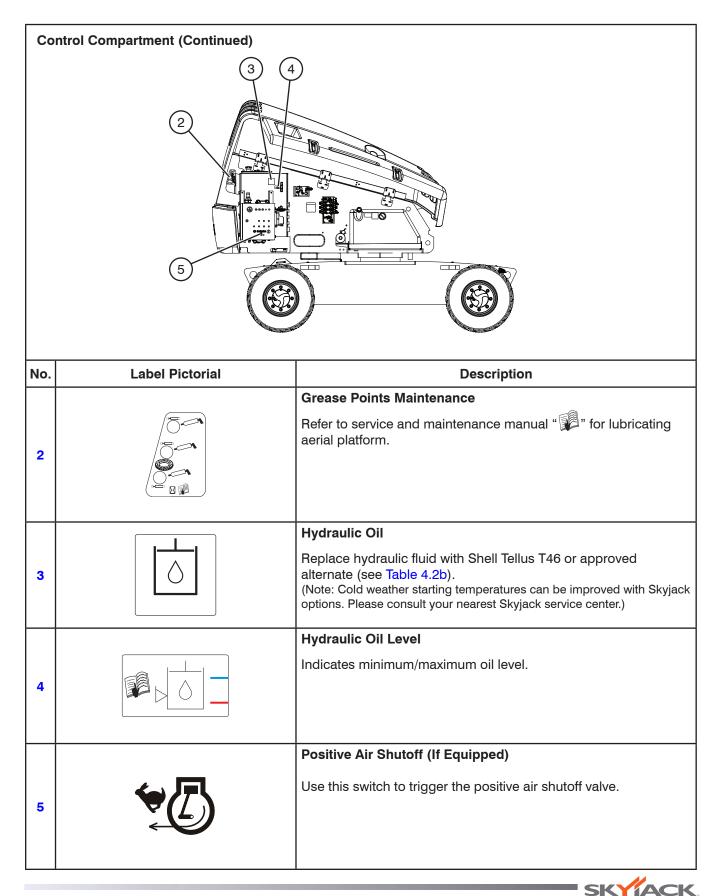








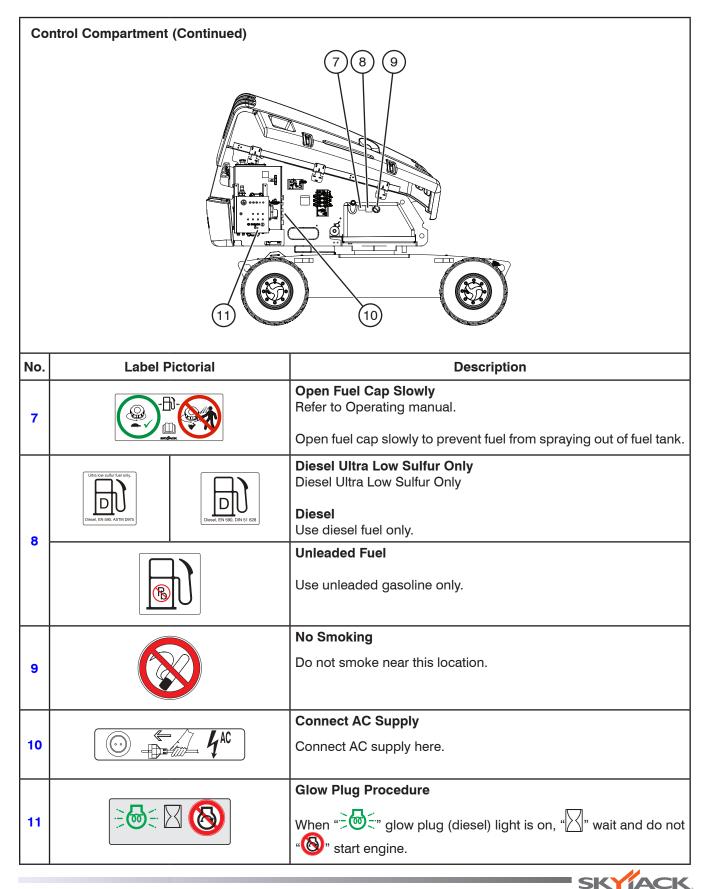


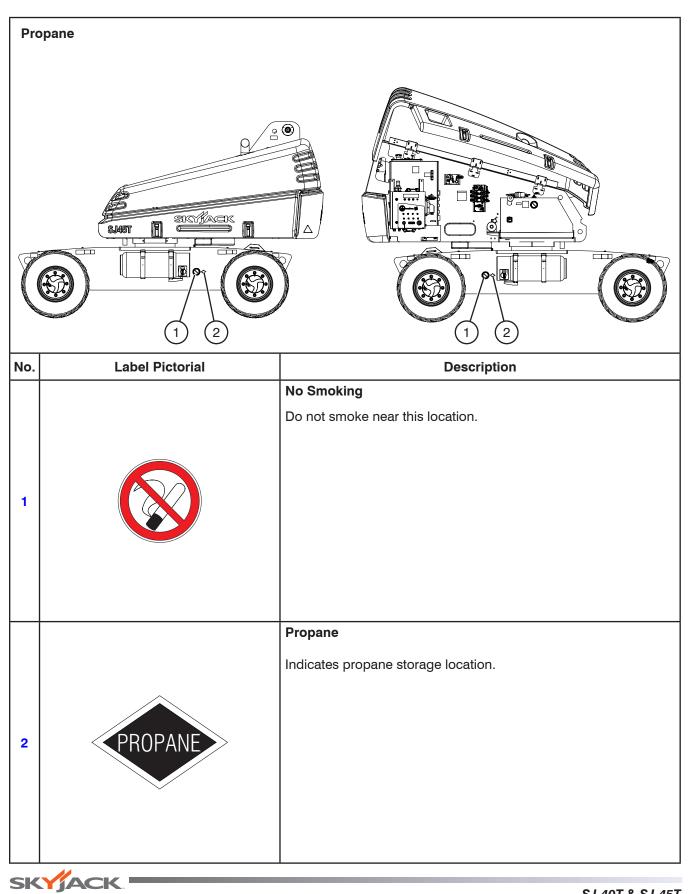




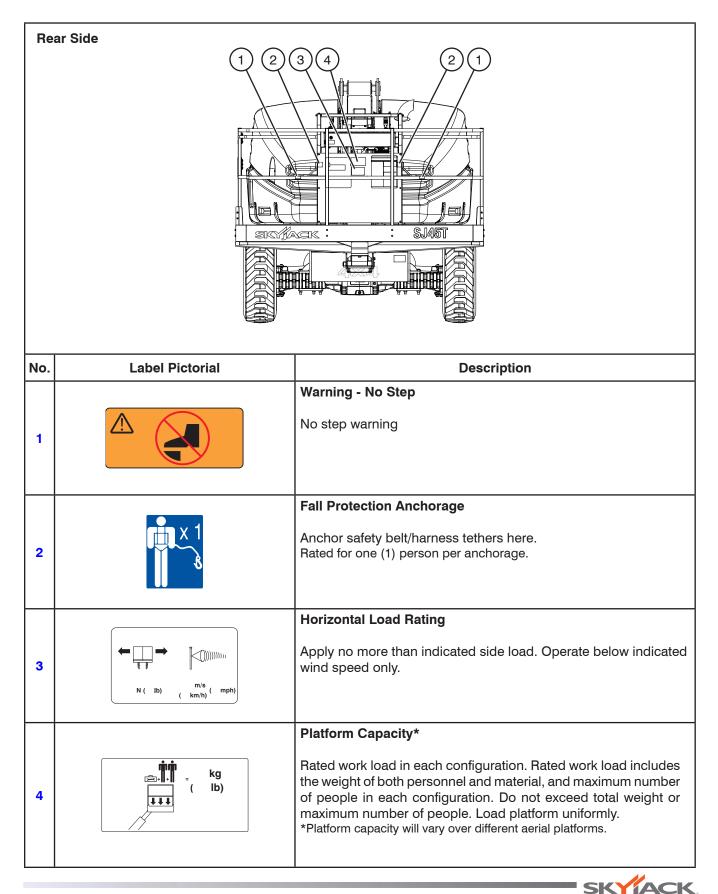


Control Compartment (Continued)		
No.	Label Pictorial	Description
6		<ul> <li>Winching/Towing/Pushing Procedure Refer to Operating manual.</li> <li>1. Block or chock wheels to prevent aerial platform from rolling.</li> <li>2. Turn main power disconnect switch to off position. At engine side:</li> <li>3. Locate bypass valve (marked with yellow colour) on inboard side of drive pump.</li> <li>4. Rotate bypass valve flat using pliers or 1/4" (7mm) wrench by 90 degrees (clockwise). At hydraulic tank side:</li> <li>5. Locate brake valve and pump.</li> <li>6. Push in black knob.</li> <li>7. Pump by pushing red knob in and out until firm resistance is felt or until 300 psi/21 bar shows on the gauge (if equipped). Brake is now released.</li> <li>8. A) Remove blocks from wheels. B) Push/tow/winch to desired location.</li> <li>9. Block or chock wheels to prevent aerial platform from rolling. At hydraulic tank side:</li> <li>10. Reset brake by pulling out black knob. At engine side:</li> <li>11. Close bypass valve by rotating 90 degrees (counterclockwise) to normal condition (flat is parallel to shaft axis).</li> </ul>

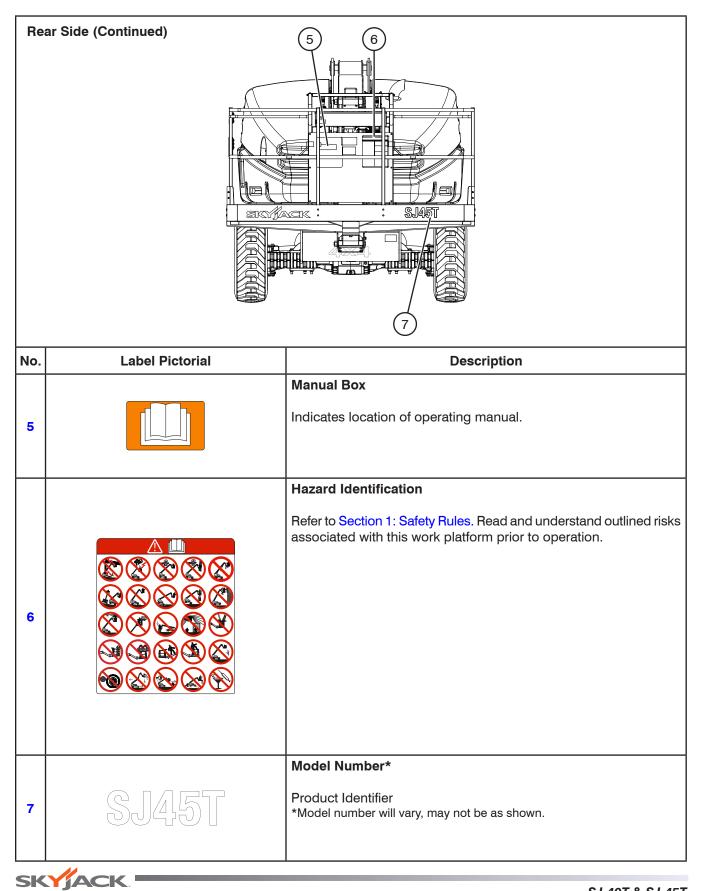




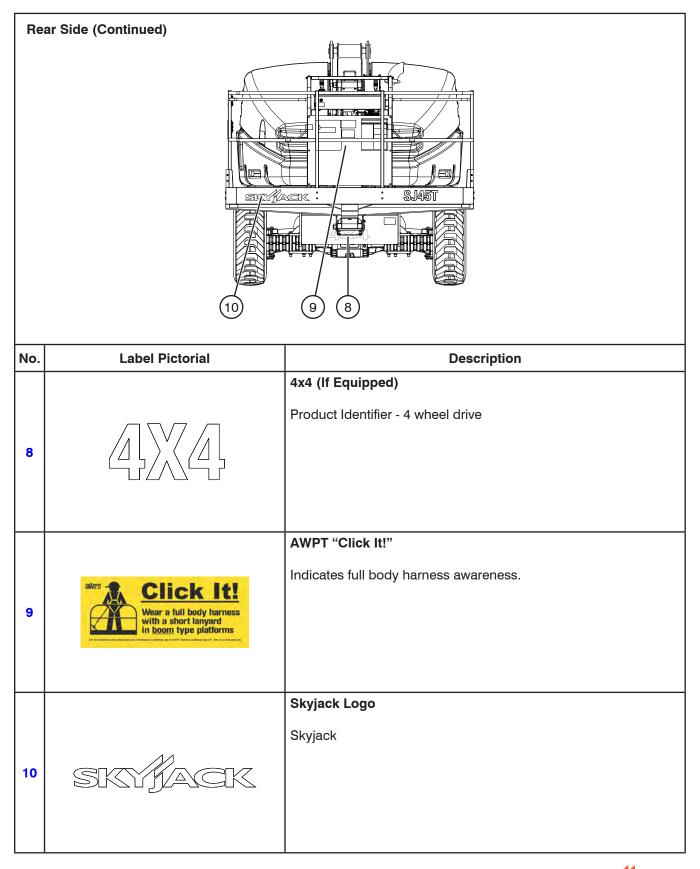




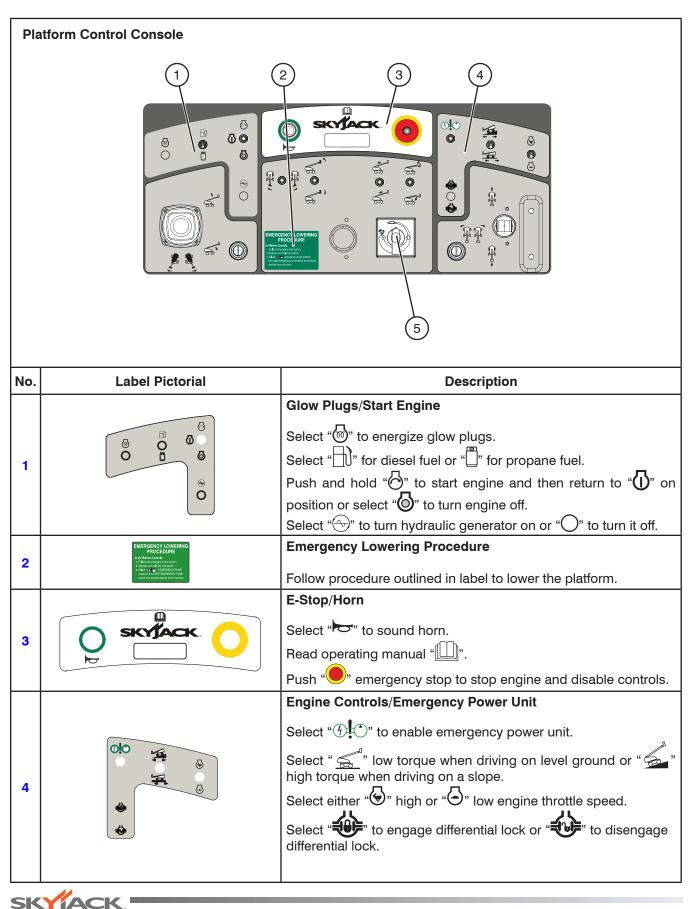




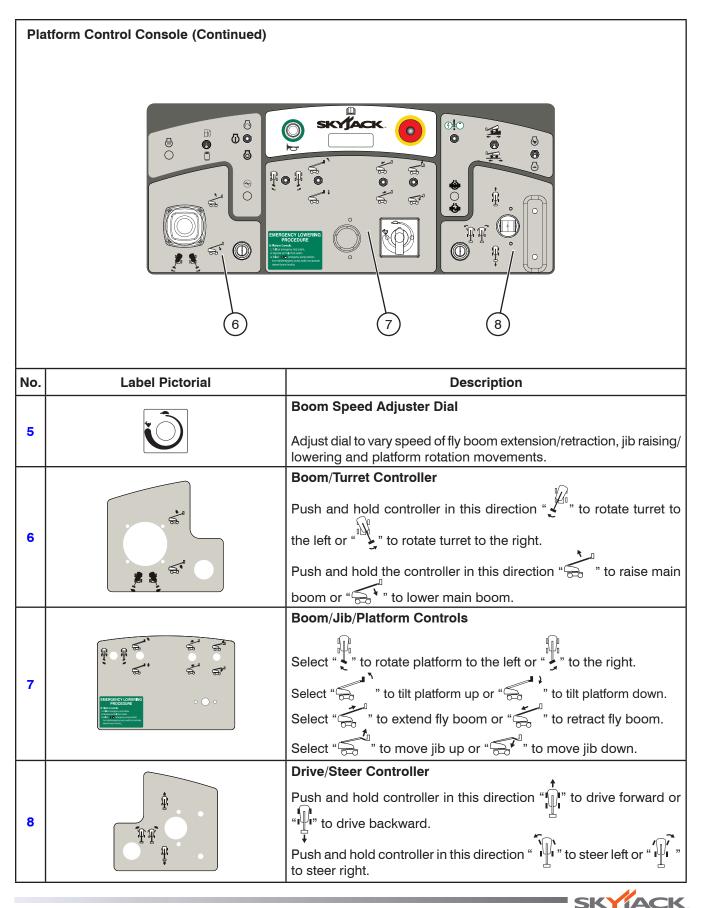


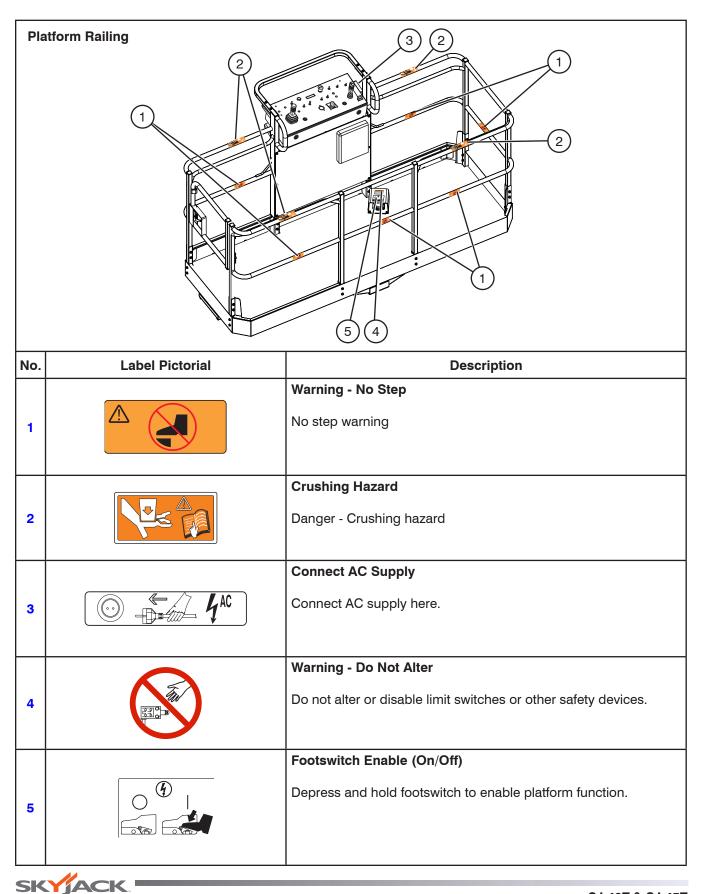




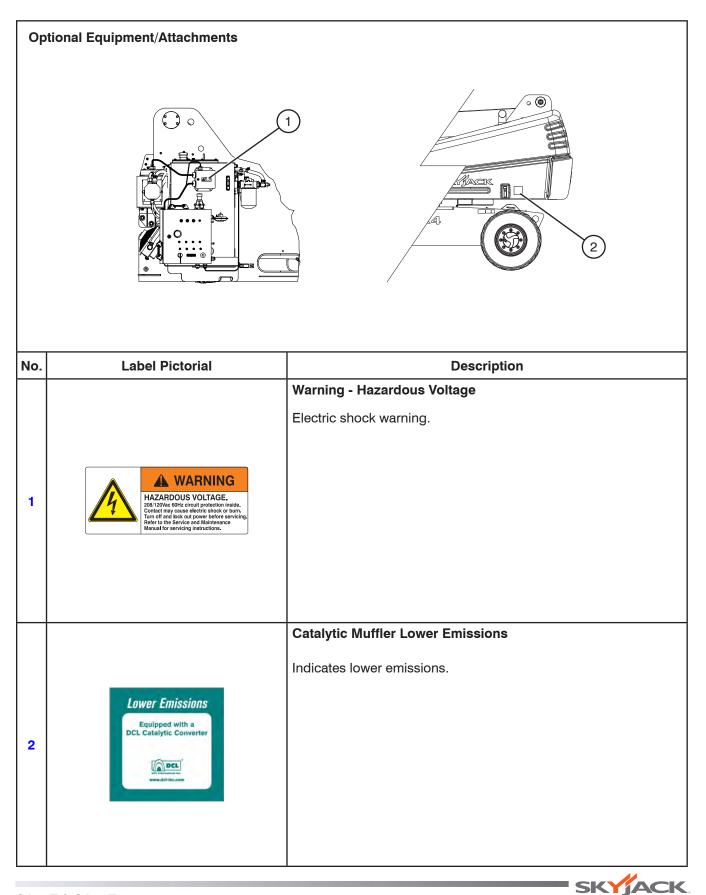




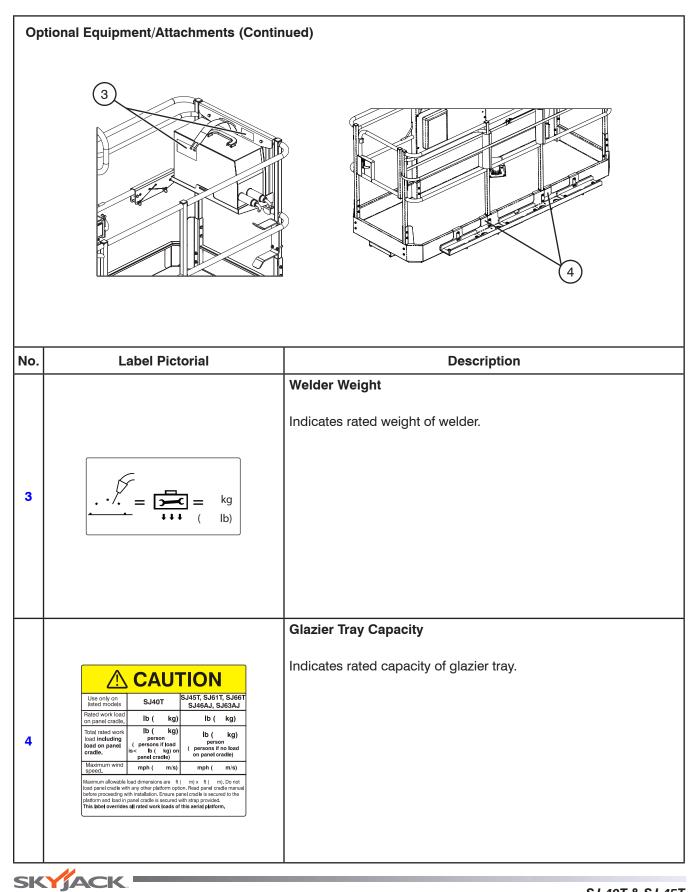












Page 102

# **California Proposition 65**

Engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer, birth defects, and other reproductive harm.

WASH HANDS AFTER HANDLING.



www.skyjack.com