

MODELS | SJ 40T SJ 45T SJ 61T SJ 66T



Operating Manual

Telescopic Boom Series (ANSI/CSA)

143852AB-A September 2010

SKYJACK

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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.



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



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



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



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



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



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



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



- **BE AWARE** of overhead obstructions or other possible hazards around the aerial platform when driving or lifting.



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

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

- **BE AWARE** of crushing hazards. Keep all body parts inside platform guardrail.



- **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.

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



- **DO NOT** exceed the rated capacity of the aerial platform. Do make sure the load is evenly distributed on the platform.

2.5-10 Platform Control Console (Continued)

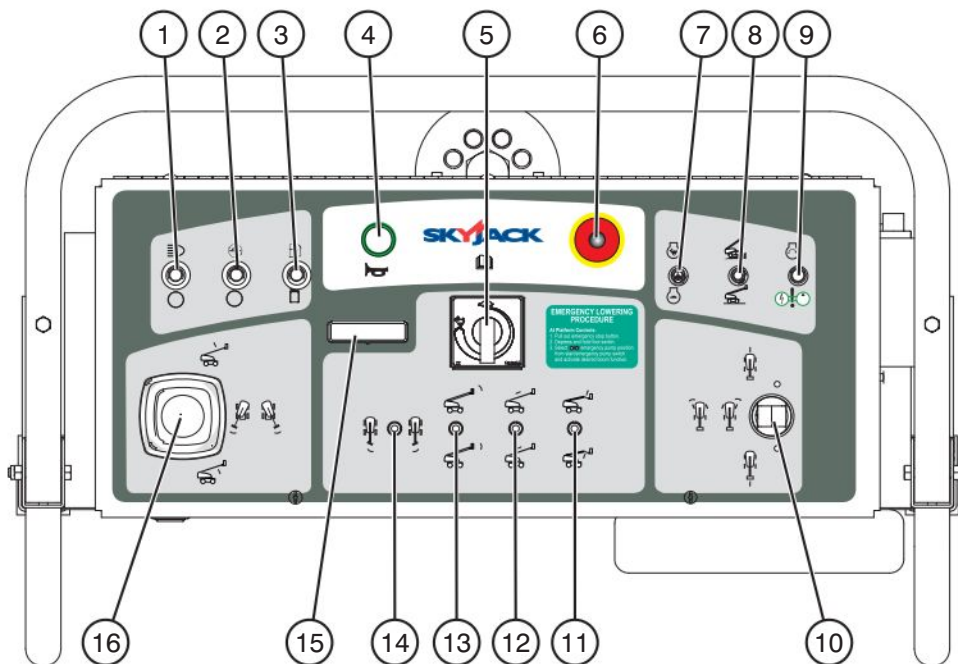
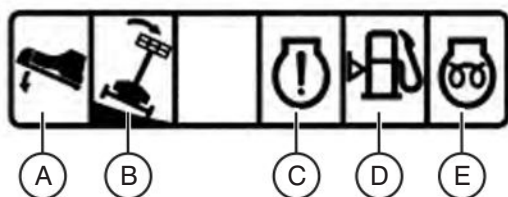
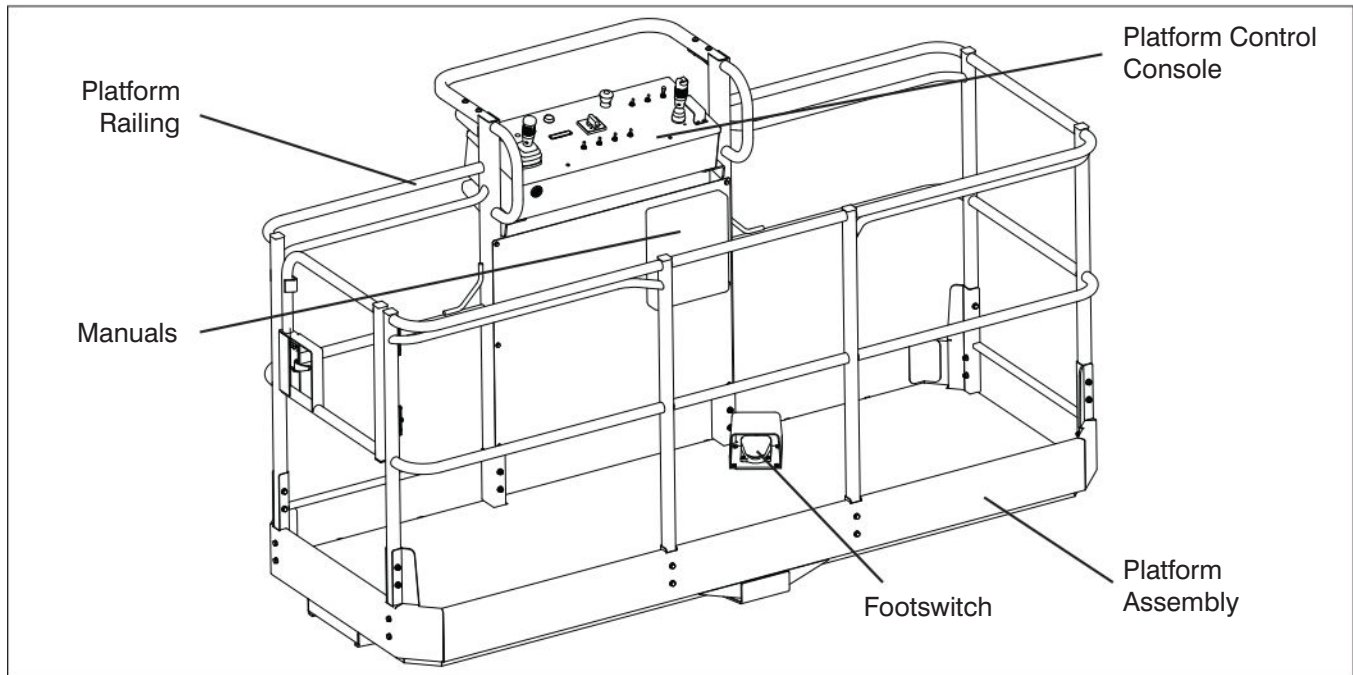


Figure 2-7. Platform Control Console

- 12. **Fly Boom Extend/Retract Switch** - This switch controls “” extension or “” retraction of fly boom.
- 13. **Platform Leveling Override Switch** - This switch overrides automatic leveling of platform and controls “” tilting up or “” tilting down of platform.
- 14. **Platform Rotation Switch** - This switch controls “” left or “” right rotation of platform.
- 15. **Status Indicator Pilot Lights** - These lights indicate operational status and errors in any function in the controls/engine.



- A. **Footswitch** - This light illuminates when footswitch is depressed. A 15-second anti-tiedown feature deactivates footswitch when operator depresses it for 15 seconds without activating any function.
- B. **Chassis Tilt** - This light illuminates when the aerial platform chassis is at an inclination that activates the tilt switch. At this inclination, an audible alarm will sound at the platform. Refer to [Section 2.15](#) 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.
- 16. **Boom/Turret Controller** - This dual-axis lever controls “” raising or “” lowering of main boom or rotating “” left or “” right of turret.



- **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.



WARNING

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

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

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

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

Refer to [Table 2.4](#) for wheel/tire specifications.

2.8-8 Manuals

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

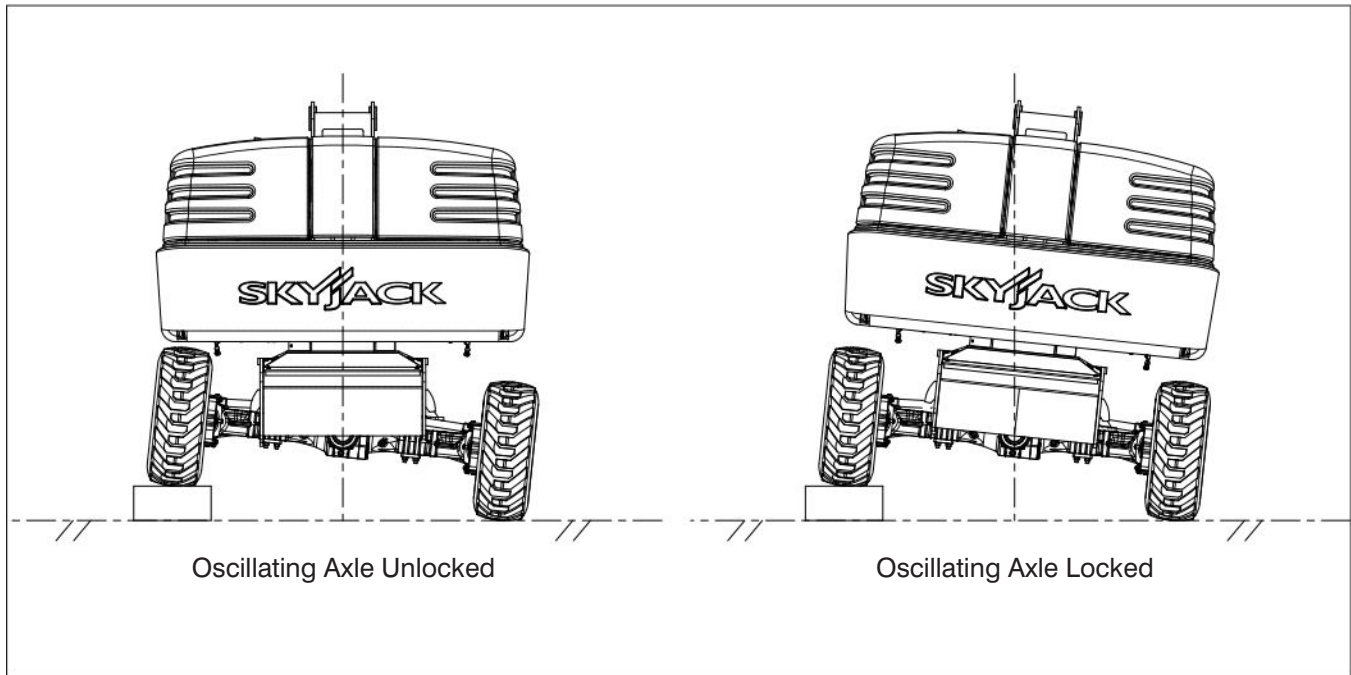
- Check to be sure manual storage box is present and in good condition.
- Ensure manuals are legible and in good condition.
- Always return manuals to the manual storage box after use.

2.8-9 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.

2.8-10 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.



- Test Oscillating Axles

**WARNING**

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

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

- Test Cables (61T/66T)

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

2.12-2 Locking the Turret

1. Ensure that turret is positioned so that turret transportation lock (item 1 - Figure 2-20) is aligned into one of four turret locking points.
2. Pull out turret lock retaining pin (item 2 - Figure 2-20). Lower turret lock into locked position and reinsert turret lock retaining pin.

2.12-3 Lifting (40T/45T)

For models 61T and 66T, contact Skyjack Service Department for special lifting instructions.

NOTE

When it becomes necessary to lift aerial platform, it is very important that lifting devices are attached only to designated lifting points (refer to Figure 2-21).



WARNING

Use chains of ample load capacity sufficient to withstand aerial platform weight.

1. Place boom in stowed position centered between drive wheels. Lock turret using turret transportation locking pin (refer to Section 2.12-2) into one of transport/lift points only (refer to Figure 2-20).
2. Turn main power disconnect switch to “O” off position.
3. Remove all loose items from aerial platform.
4. Properly adjust rigging to prevent damage to aerial platform and so aerial platform remains level.

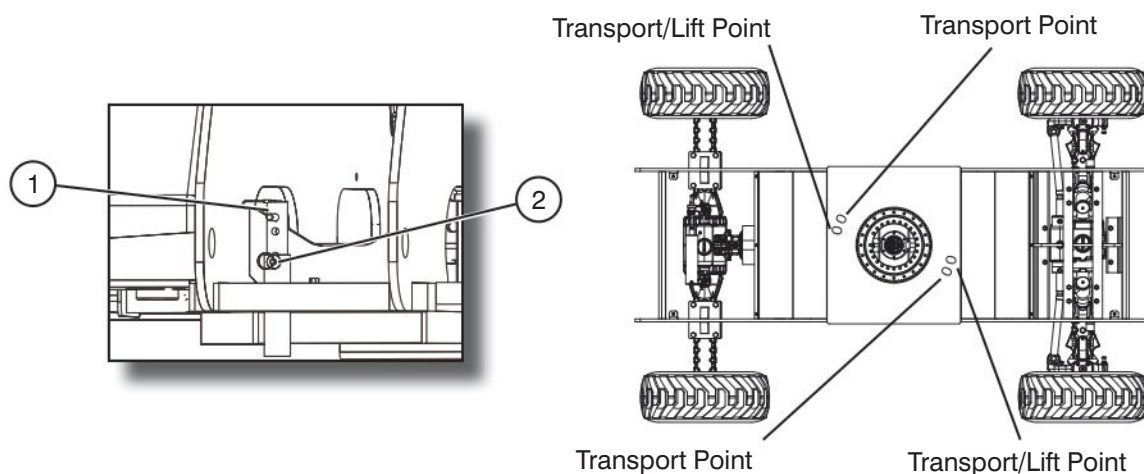


Figure 2-20. Turret Transportation Lock & Locking Points

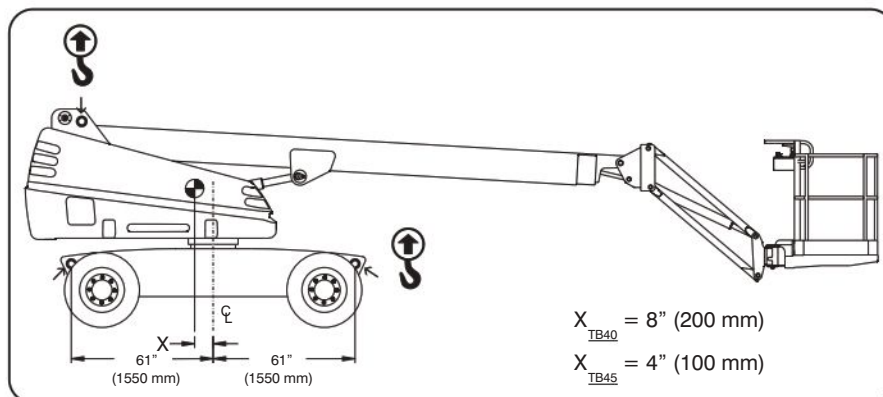
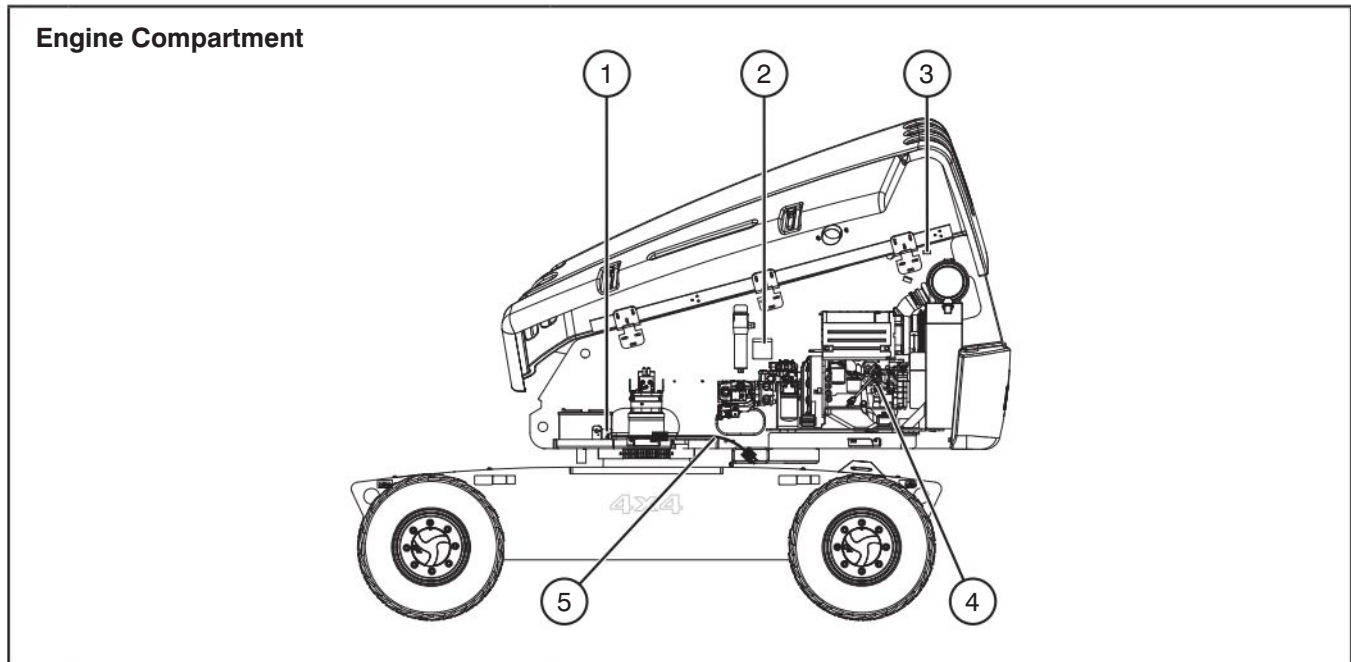







Figure 2-21. Lifting Points

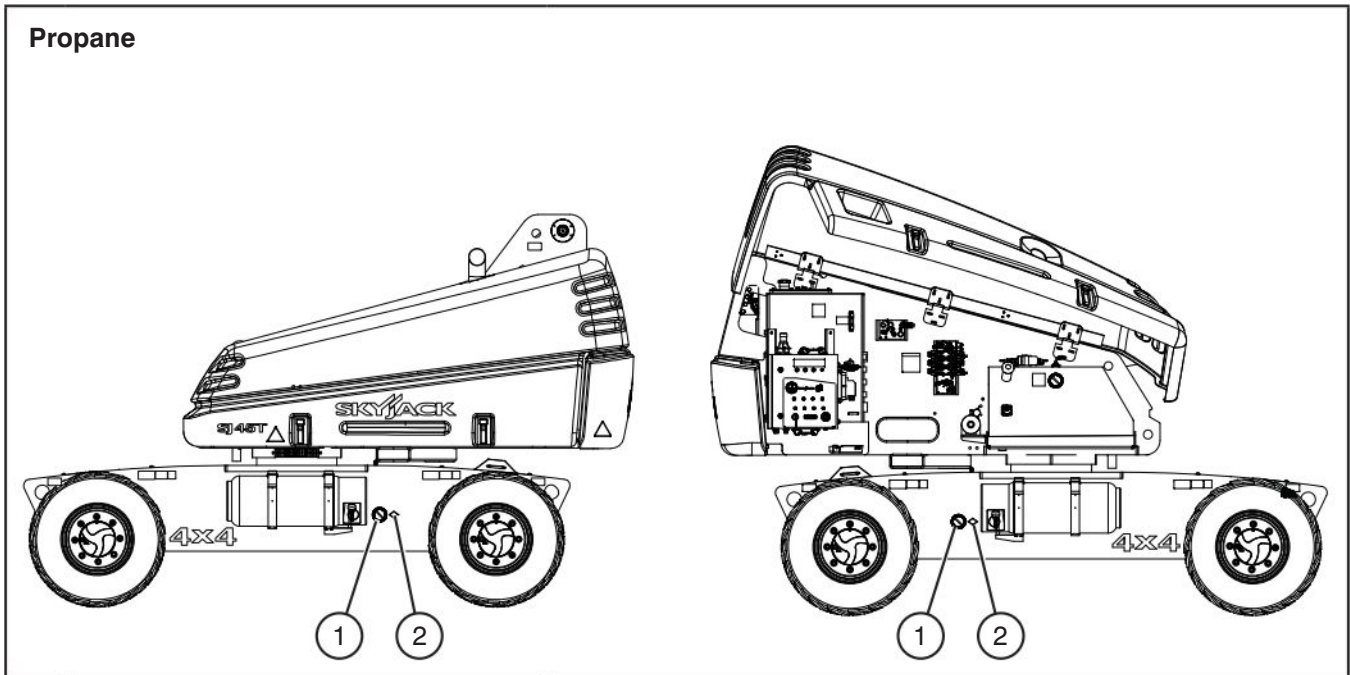
Table 2.1 Standard and Optional Features



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

60551AH-ANSI-AS



No.	Label Pictorial	Description
1		<p>Main Power Disconnect Main power disconnect lever</p>
2		<p>Towing/Pushing/Winching Procedure Instructions for towing, pushing or winching</p>
3		<p>Warning - Do Not Alter Aerial platform altering warning</p>
4		<p>Cold Weather Factory Oil (If Equipped) Recommended factory oil (5W-30) for cold weather start option</p>
5		<p>Battery Warmer/Hydraulic Oil Heater (If Equipped) Battery warmer/hydraulic oil heater cord</p>



No.	Label Pictorial	Description
1		<p>No Smoking Do not smoke near this location.</p>
2		<p>Propane Indicates propane storage location.</p>

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