



Operator's Manual

Serial Number Range

SXTM-150

from SX150H-612

SXTM-180

from SX180H-745

ANSI/CSA
North America
South America
Asia

with
Maintenance
Information

Original Instructions
Third Edition
First Printing
Part No. 1292554GT

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General Safety



218559

⚠ DANGER	⚠ WARNING	⚠ WARNING
<p>Tipover Hazard Tipping over the machine will result in death or serious injury.</p> 	<p>Drive Direction Hazard Machine can move in opposite direction of operator movement. Movement in an unlearned direction can result in death or serious injury.</p> 	<p>Crush Hazard Contact with overhead obstructions could result in death or serious injury.</p> 
<p>Only raise the platform on the machine if it is on a firm, level surface.</p> 	<p>Always match the load and load distribution to mass on platform controls and drive chassis to determine direction of machine load. Read and understand operator's manual.</p> 	<p>Keep away from overhead obstructions or other possible hazards.</p> 

161692

⚠ WARNING	<p>Driving On a Slope Do not drive machine on a slope that exceeds maximum safe slope for side slope rating. Determine slope and side slope rating for machine and determine safe grade.</p> 
⚠ WARNING	<p>Runaway Hazard Machine movement can occur when a machine is operated on a slope that exceeds rated safe slope or configuration. Machine load and configuration will be the same when it is taken forward and driven in reverse movement. Move drive speed control switch to machine control in reverse.</p> 








28236

⚠ WARNING	<p>Improper operation or maintenance can result in serious injury or death.</p> 
ⓘ	<p>Read and understand Operator's Manual, Responsibility Manual and Safety Manual and all safety signs before using or maintaining machine. If you do not understand the information in the manuals, consult your supervisor, the name or the manufacturer.</p> 



72875

⚠ WARNING	<p>Do not touch exposed electrical components. Exposed electrical components can result in death or serious injury. Do not touch exposed electrical components unless you are qualified to do so. Do not touch exposed electrical components unless you are qualified to do so. Do not touch exposed electrical components unless you are qualified to do so. Do not touch exposed electrical components unless you are qualified to do so.</p> 
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161690

⚠ DANGER	<p>Maximum allowable wind speed: 28 mph / 12.5 m/sec</p> 	<p>Maximum Capacity: 750 lbs / 340 kg</p> 	<p>Maximum Allowable Side Force: 90 lbs / 400 N</p> 
<p>Tipover Hazard Tipping over the machine will result in death or serious injury.</p> 	<p>Occupants and equipment must not exceed 750 lbs / 340 kg</p> 	<p>Maximum Occupants: 2</p> 	<p>Hand icon</p> 



114390

⚠ DANGER	<p>Distraction Hazard Death or injury can result from contacting objects.</p> 
<p>Always match the load and load distribution to mass on platform controls and drive chassis to determine direction of machine load. Read and understand operator's manual.</p> 	

219487

⚠ DANGER	<p>Platform Overload Indicator Light Light flashing indicates the platform is overloaded. The machine will stop and no functions will operate.</p> 
⚠ DANGER	<p>Tipover Hazard Tipping over the machine will result in death or serious injury.</p> 

114416

⚠ DANGER	<p>Tipover Hazard Tipping over the machine will result in death or serious injury.</p> 
ⓘ	<p>Read and understand Operator's Manual, Responsibility Manual and Safety Manual and all safety signs before using or maintaining machine. If you do not understand the information in the manuals, consult your supervisor, the name or the manufacturer.</p> 



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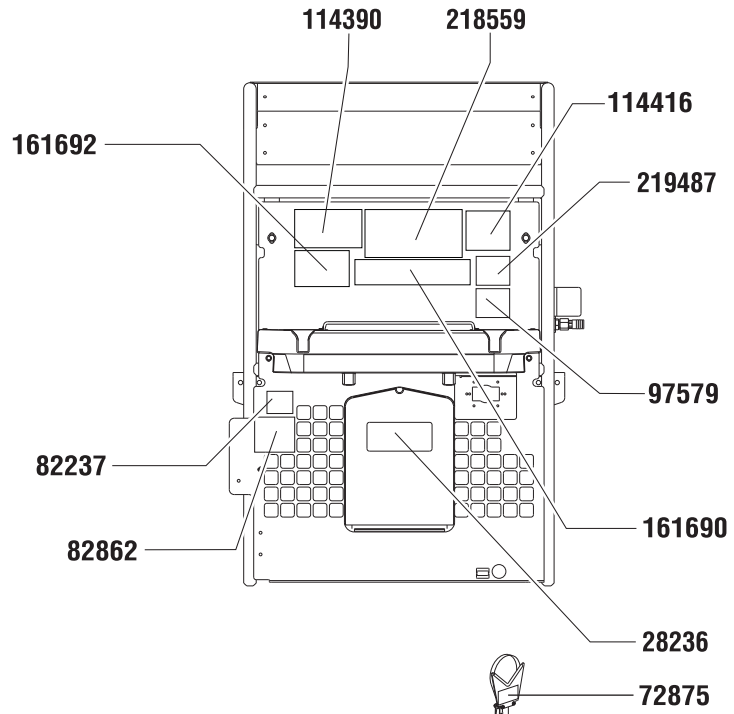
⚠ DANGER	<p>Fire Hazard Serious injury or death will result if the machine will be operating while and the extinguisher is not available.</p> 
ⓘ	<p>Do not operate while under the influence of alcohol or any other substance that could impair your ability to operate the machine. Do not operate while under the influence of alcohol or any other substance that could impair your ability to operate the machine.</p> 

97579

⚠ DANGER	<p>Tipover Hazard Tipping over the machine will result in death or serious injury.</p> 
ⓘ	<p>Read and understand Operator's Manual, Responsibility Manual and Safety Manual and all safety signs before using or maintaining machine. If you do not understand the information in the manuals, consult your supervisor, the name or the manufacturer.</p> 

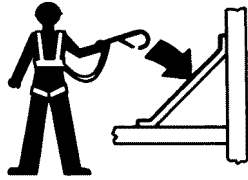
82237

⚠ DANGER	<p>Electrocution Hazard Contact with energized components can result in death or serious injury.</p> 
ⓘ	<p>Avoid contact with energized components.</p> 



Work Area Safety

▲ Fall Hazards



Occupants must wear a safety belt or harness in accordance with governmental regulations. Attach the lanyard to the anchor provided in the platform.



Do not sit, stand, or climb on the platform guard rails. Maintain a firm footing on the platform floor at all times.



Do not climb down from the platform when raised.

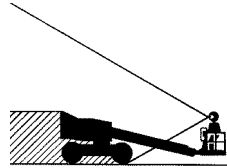
Keep the platform floor clear of debris.

Lower the platform entry mid-rail or close the entry gate before operating.

Do not enter or exit the platform unless the machine is in the stowed position and the platform is at ground level.

Hazards related with the specific product application of exiting at height have been considered in the design of the machine, for further information contact Genie (see section Contacting the Manufacturer).

▲ Collision Hazards



Be aware of limited sight distance and blind spots when driving or operating.

Be aware of the boom position and tailswing when rotating the turntable.



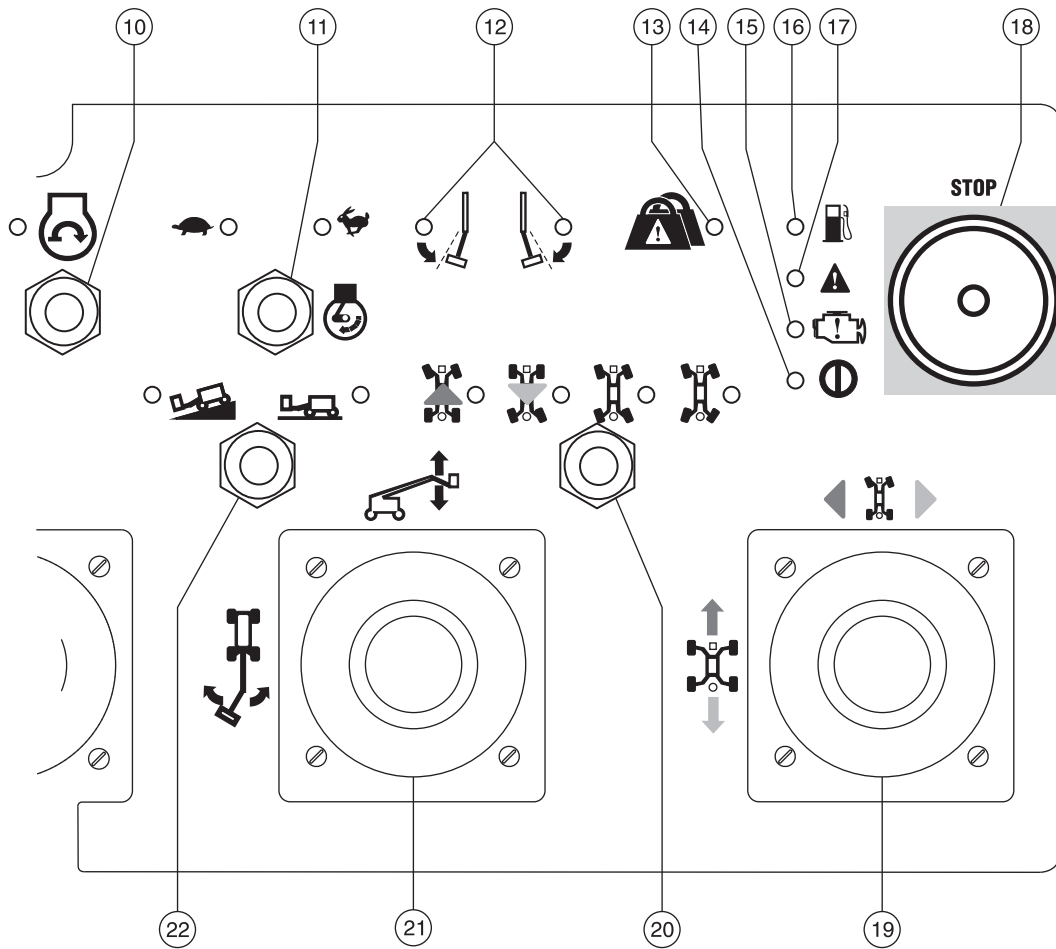
Check the work area for overhead obstructions or other possible hazards.



Be aware of crushing hazards when grasping the platform guard rail.

Operators must comply with employer, job site, and governmental rules regarding use of personal protective equipment.

Controls



Inspections

- 11 Turn the key switch to platform control. At the platform controls, move the drive control handle in the forward direction and move the extend axle toggle switch.
 - ⊙ Result: The machine should drive and the axles should extend. The axle extend and retract indicator lights will flash while the axles are moving and the axle extend light will stay on when the axles are fully extended.
- 12 Return to the ground controls. Turn the key switch to ground control.
- 13 Press and hold a function enable/speed select button and press the boom up button and then the boom down button.
 - ⊙ Result: The boom should raise and lower normally.
- 14 Push and hold a function enable/speed select button and push the boom extend button and the boom retract.
 - ⊙ Result: The boom should extend and retract normally.
- 15 Push and hold a function enable/speed select button and push the turntable rotate left button and the turntable rotate right button.
 - ⊙ Result: The turntable should rotate normally.

Test Machine Functions

- 16 Do not press and hold a function enable/speed select button. Attempt to activate each boom and platform function button.
 - ⊙ Result: No boom and platform functions should operate.
- 17 Press and hold a function enable/speed select button and activate each boom and platform function button.
 - ⊙ Result: All boom and platform functions should operate through a full cycle. The descent alarm should sound while the boom is lowering.

Test Emergency Controls

- 18 Push in the red Emergency Stop button to the off position to shut off the engine.
- 19 Pull out the red Emergency Stop button to the on position.
- 20 Simultaneously push and hold the emergency power button and push each boom function button.



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

- ⊙ Result: All boom functions should operate.
- 21 Start the engine.

Inspections



Do Not Operate Unless:

- You learn and practice the principles of safe machine operation contained in this operator's manual.
 - 1 Avoid hazardous situations.
 - 2 Always perform a pre-operation inspection.
 - 3 Always perform function tests prior to use.
 - 4 Inspect the workplace.**

Know and understand the workplace inspection before going on to the next section.
 - 5 Only use the machine as it was intended.

Workplace Inspection Fundamentals

The workplace inspection helps the operator determine if the workplace is suitable for safe machine operation. It should be performed by the operator prior to moving the machine to the workplace.

It is the operator's responsibility to read and remember the workplace hazards, then watch for and avoid them while moving, setting up, and operating the machine.

Workplace Inspection Checklist

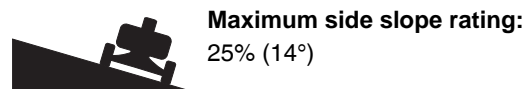
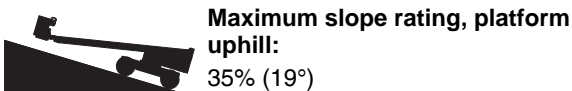
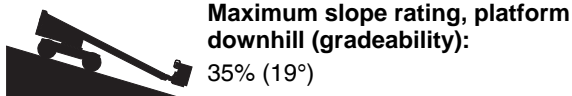
Be aware of and avoid the following hazardous situations:

- drop-offs or holes
- bumps, floor obstructions, or debris
- sloped surfaces
- unstable or slippery surfaces
- overhead obstructions and high voltage conductors
- hazardous locations
- inadequate surface support to withstand all load forces imposed by the machine
- wind and weather conditions
- the presence of unauthorized personnel
- other possible unsafe conditions

Operating Instructions

▲ Driving on a slope

Determine the uphill, downhill and side slope ratings for the machine and determine the slope grade.



Note: Slope rating is subject to ground conditions with one person in the platform and adequate traction. Additional platform weight may reduce slope rating. The term gradeability applies to the counterweight uphill configuration only.

Be sure the boom is below horizontal and the platform is between the circle-end wheels.

Move the drive speed select switch to machine on incline symbol.

To determine the slope grade:

Measure the slope with a digital inclinometer OR use the following procedure.

You will need:

- carpenter's level
- straight piece of wood, at least 3 feet/1 m long
- tape measure

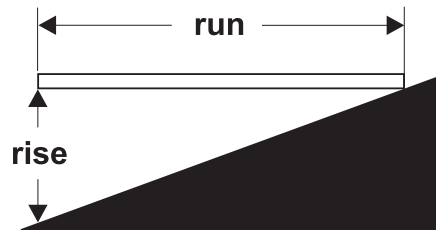
Lay the piece of wood on the slope.

At the downhill end, lay the level on the top edge of the piece of wood and lift the end until the piece of wood is level.

While holding the piece of wood level, measure the vertical distance from the bottom of the piece of wood to the ground.

Divide the tape measure distance (rise) by the length of the piece of wood (run) and multiply by 100.

Example:



Piece of wood = 144 inches (3.6 m)

Run = 144 inches (3.6 m)

Rise = 12 inches (0.3 m)

$12 \text{ in} \div 144 \text{ in} = 0.083 \times 100 = 8.3\% \text{ grade}$

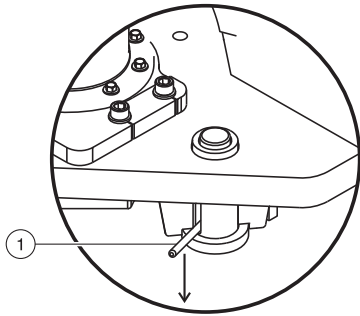
$0.3 \text{ m} \div 3.6 \text{ m} = 0.083 \times 100 = 8.3\% \text{ grade}$

If the slope exceeds the maximum slope or side slope rating, then the machine must be winched or transported up or down the slope. See Transport and Lifting section.

Transport and Lifting Instructions

Securing to Truck or Trailer for Transit

Always use the turntable rotation lock pin each time the machine is transported.



1 Turntable rotation lock pin

Turn the key switch to the off position and remove the key before transporting.

Inspect the entire machine for loose or unsecured items.

Securing the Chassis

Use chains of ample load capacity.

Use a minimum of 6 chains.

Adjust the rigging to prevent damage to the chains.

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