



Operator's Manual

Serial Number Range

S[®]-40 XC[™]

from S40XCH-3291
from S45XCH-3292

S[®]-45 XC[™]

S[®]-40 HF

S[®]-45 HF

S[®]-40 TRAX[™]

S[®]-45 TRAX[™]

ANSI/CSA
North America
South America
Asia

with
Maintenance
Information

Original Instructions
Second Edition
First Printing
Part No. 1316752GT

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General Safety

* These decals are model, option or configuration specific.

Pictures in this manual may show a boom with tires and wheels instead of tracks. All safety information and operating instructions still apply to the S-40 TRAX and the S-45 TRAX, even if the picture does not show the tracks.

114258

▲ DANGER

Burn Hazard
Fuel and fumes can explode and burn.

No smoking. No flame. Stop engine.

114258 A

1263543

▲ WARNING

Improper operation or maintenance of this equipment can result in death or serious injury.

Access by trained and authorized personnel only.

1263543 A

1267121

▲ WARNING

Crash Hazard
Contact with moving work platform or boom can result in death or serious injury.

Securely brace work platform or boom during maintenance.

97602

▲ WARNING

Explosion Hazard
Death or serious injury can result from the use of ether or other high energy starting aids.

Do not use ether or other high energy starting aids on machines equipped with glow plugs or grid heater.

97602 C

114390

▲ DANGER

Electrocution Hazard
This machine is not electrically insulated. Death or injury can result from contacting electric power lines.

Always contact the electric power line owner. The electric power shall be disconnected or the power lines moved or insulated before machine operations begin.

Line Voltage	Required Clearance	
0 to 150kV	10 ft	3.0 m
150 to 200kV	15 ft	4.6 m
200 to 350kV	20 ft	6.1 m
350 to 500kV	25 ft	7.6 m
500 to 750kV	35 ft	10.6 m
750 to 1200kV	45 ft	13.7 m

114390

82237

▲ DANGER

Electrocution Hazard
Contact with energized components can result in death or serious injury.

Avoid contact with energized components.

82237 R

52865

▲ WARNING

Annual Inspection Record
Failure to complete required inspections could result in death or serious injury.

Inspection	Inspected	Inspected By
Pre-Shift		
Hourly		
Daily		
Weekly		
Monthly		
Quarterly		
Annual		

52865

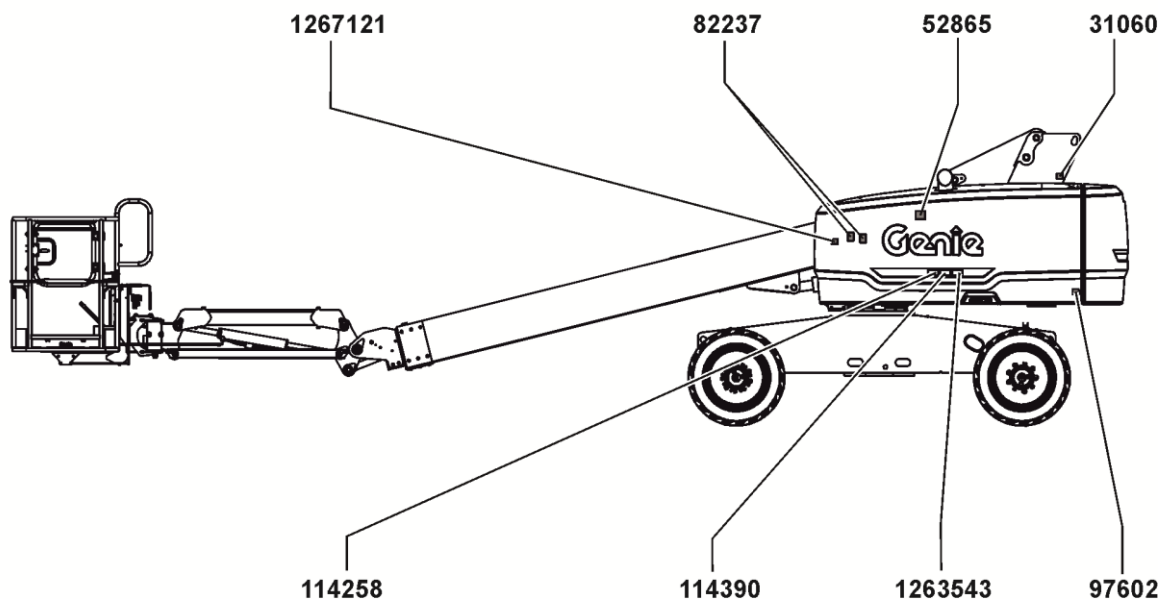
31060

▲ DANGER

Tip-over Hazard
Altering or disabling sensors or limit switches can result in machine tip-over. Machine tip-over will result in death or serious injury.

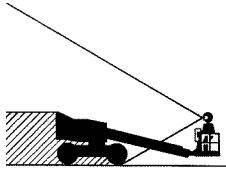
Do not alter or disable sensors and/or limit switches.

31060 D



Work Area Safety

⚠ 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.

Observe and use the color-coded direction arrows on the platform controls and drive chassis for drive and steer functions.



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



Limit travel speed according to the condition of the ground surface, congestion, slope, location of personnel, and any other factors which may cause collision.

Do not operate a boom in the path of any crane unless the controls of the crane have been locked out and/or precautions have been taken to prevent any potential collision.

No stunt driving or horseplay while operating a machine.

Controls

Platform Control Panel

1 Horn button

Press this button and the horn will sound. Release the button and the horn will stop.

2 Platform level switch

Move the platform level switch up and the level of the platform will raise. Move the platform level switch down and the level of the platform will lower.



3 Platform rotate switch

Move the platform rotate switch to the left and the platform will rotate left. Move the platform rotate switch to the right and the platform will rotate right.



4 Jib boom up/down switch

Move the jib boom switch up and the jib boom will raise. Move the jib boom switch down and the jib boom will lower.



5 Glow plug indicator light

Light on indicates the glow plugs are on.

6 Fault indicator light

Light on indicates a system fault.

7 Restricted range of motion indicator light, weight. (if equipped)

Light on indicates restricted range of motion due to platform weight.



8 Platform overload indicator light

Light flashing indicates the platform is overloaded. The engine will stop and no functions will operate. Remove weight until the light goes off and then restart the engine.

9 Restricted range of motion indicator light, slope.

Light on indicates restricted range of motion due to slope angle.



10 Machine on incline indicator light

Light on indicates the tilt sensor activation settings have been exceeded. See the instructions in the Operating Instructions section.

Inspections

- 50 Return to level ground and raise the boom to approximately 15° above horizontal.
- 51 **S-40 XC, S-45 XC, S-40 TRAX, S-45 TRAX:** Drive the machine onto a slope where the pitch angle is greater than 7° (front to back).
S-40 HF, S-45 HF: Drive the machine onto a slope where the pitch angle is greater than 5° (front to back).
- ⊙ **S-40 XC, S-45 XC, S-40 TRAX, S-45 TRAX:** Result: The machine should stop once the machine reaches 7° of chassis tilt and the alarm should sound at the platform controls.
 - ⊙ **S-40 HF, S-45 HF:** Result: The machine should stop once the machine reaches 5° of chassis tilt and the alarm should sound at the platform controls.
- 52 While on the slope, attempt to raise and extend the boom.
- ⊙ Result: The boom raise and extend functions should not operate.
- 53 Lower the boom to the stowed position.
- ⊙ Result: The machine should drive.
- 54 Return to level ground and stow the boom.
- 55 Press down the foot switch.
- 56 With the boom fully stowed, drive the machine onto a slope where the roll angle is greater than 5° (side to side).
- ⊙ Result: The machine should continue to drive.
- 57 Return the machine to level ground and extend the boom approximately 18 inches/46 cm.
- 58 Drive the machine onto a slope where the roll angle is greater than 5° (side to side).
- ⊙ Result: The machine should stop once the machine reaches 5° of chassis tilt and the alarm should sound at the platform controls.
- 59 Retract the boom to the stowed position.
- ⊙ Result: The machine should drive.
- 60 Return to level ground and raise the boom to approximately 15° above horizontal.
- 61 Drive the machine onto a slope where the roll angle is greater than 5° (side to side).
- ⊙ Result: The machine should stop once the machine reaches 5° of chassis tilt and the alarm should sound at the platform controls.
- 62 While on the slope, attempt to raise and extend the boom.
- ⊙ Result: The boom raise and extend functions should not operate.
- 63 Lower the boom to the stowed position.
- ⊙ Result: The machine should drive.
- 64 Return to level ground and stow the boom.

Operating Instructions

Starting the Engine

Diesel models

- 1 At the ground controls, turn the key switch to the desired position.
- 2 Be sure both ground and platform control red Emergency Stop buttons are pulled out to the on position.

The engine glow plugs will automatically start either when the machine is turned on or when engine start is requested.

- 3 At the ground controls: The LCD screen will display the glow plug symbol when the automatic glow plugs are on.
- 4 At the platform controls: The glow plug indicator light will come on when the automatic glow plugs are on.
- 5 When the glow plugs turn off, start the engine. Move the engine start toggle switch or press the engine start button.



If the engine fails to start or dies, the restart delay will disable the start switch for 6 seconds.

Gasoline/LPG models

- 1 At the ground controls, turn the key switch to the desired position.
- 2 Be sure both ground and platform control red Emergency Stop buttons are pulled out to the on position.
- 3 At the platform controls: Choose fuel by moving the fuel select switch to the desired position. Move the engine start toggle switch to either side. If the engine fails to start or dies, the restart delay will disable the start switch for 3 seconds.
- 4 At the ground controls: Press the fuel select button to select the desired fuel type.

Note: Each time the home button is pressed, the LCD screen will show the gasoline icon or LPG icon.

- 5 Press the engine start button.

Operating Instructions

Observe and Obey:

- ☑ Pipe cradles must be installed on the inside of the platform.
- ☑ Pipe cradles must not obstruct the platform controls or the platform entrance.
- ☑ The bottom of the pipe cradle tube must rest on the platform floor.
- ☑ Be sure the platform is level before installing a pipe cradle.

Pipe Cradle Installation

- 1 Install a pipe cradle on each side of the platform. Refer to the illustration on the left. Make sure the bottom of the pipe cradle tube rests on the platform floor.
- 2 Install two U-bolts from the outside of the platform rails through each pipe cradle mount.
- 3 Secure each U-bolt with 2 washers and 2 nuts.

Pipe Cradle Operation

- 1 Be sure the pipe cradle assembly and installation instructions have been followed properly and that the pipe cradles are secured to the platform railings.
 - 2 Place the load so that it rests in both pipe cradles. The length of the load should be parallel with the length of the platform.
 - 3 Center the load in the pipe cradles.
 - 4 Secure the load to each pipe cradle. Pass the nylon strap over the load. Depress the buckle and slide the strap through. Tighten the strap.
 - 5 Gently push and pull on the load to make sure the pipe cradles and load are secure.
 - 6 Keep the load secured when the machine is moving.
- ▲ Tip-over hazard. The weight of the pipe cradle assembly and the load in the pipe cradles will reduce the rated platform capacity of the machine and must be factored into the total platform load.
- ▲ Tip-over hazard. The weight of the pipe cradle assembly and the load in the pipe cradles may limit the maximum number of occupants in the platform.

Maximum Pipe Cradle Capacity

All models	200 lbs 90.7 kg
Pipe Cradle Assembly Weight	21 lbs 9.5 kg

Maintenance

Check the Engine Coolant Level – Liquid Cooled Models



Maintaining the engine coolant at the proper level is essential to engine service life. Improper coolant level will affect the engine's cooling capability and damage engine components. Daily checks will allow the inspector to identify changes in coolant level that might indicate cooling system problems.

- ▲ Burn hazard. Beware of hot engine parts and coolant. Contact with hot engine parts and/or coolant may cause severe burns.
 - ▲ Burn hazard. Do not remove the radiator cap if the engine has been running. Contact with pressurized coolant may cause severe burns. Allow engine to cool before removing the radiator cap.
- 1 Check the fluid level in the coolant recovery tank. Add fluid as needed.
- ⊙ Result: The fluid level should be at the FULL mark on the tank or visible in the sight gauge.

Check the Batteries



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

- ▲ Electrocution hazard. Contact with hot or live circuits may result in death or serious injury. Remove all rings, watches and other jewelry.
 - ▲ Bodily injury hazard. Batteries contain acid. Avoid spilling or contacting battery acid. Neutralize battery acid spills with baking soda and water.
- 1 Put on protective clothing and eye wear.
 - 2 Be sure that the battery cable connections are tight and free of corrosion.
 - 3 Be sure that the battery hold-down brackets are in place and secure.

Note: Adding terminal protectors and a corrosion preventative sealant will help eliminate the corrosion on the battery terminals and cables.

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