

Scissor Components

9-11 Platform Overload System (if equipped)

How to Calibrate the Platform Overload System

Perform this procedure with the machine in the stowed position and on a firm, level surface that is free of obstructions.

Personnel are not allowed in the platform while calibrating the platform overload system.

Perform this procedure in an environment that allows the platform to be fully raised. Models rated for indoor use only, should be calibrated inside a facility with enough ceiling height to fully raise the platform. If the facility height is not suitable to fully raise the platform, then an indoor only rated model may be calibrated outdoors if wind speeds are less than 28 mph / 12.5 m/s. Only use flat weights while calibrating indoor only rated machines, outdoors.

Perform this procedure after confirming that the platform height sensor is not damaged and functions correctly.

There are two options to the platform overload calibration procedure in this section, Full Load Calibration and No Load Calibration. Full Load Calibration has two steps requiring calibration with and without rated load in the platform. No Load Calibration does not require rated load in the platform.

Note: No Load Calibration can be completed stand alone to fulfill the C-2 overload calibration requirements, if the machine has completed the Full Load Calibration procedure.

Note: If a new Ground Controller is installed on a machine, the Full Load Calibration procedure is required to maintain rated load platform capacity. If a No Load Calibration is performed, machine lifting performance will be significantly reduced.

Note: Ambient temperature must be above 32°F / 0°C before calibrating the Platform Overload System.

Note: To calibrate the platform overload system, follow the menu structure indicated on the ground control LCD display.

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Full Load Calibration: Part 1

- 1 Fully charge the batteries and check the hydraulic fluid level.

Note: The hydraulic fluid level must be between the FULL and ADD marks on the hydraulic tank.

- 2 Apply a thin layer of dry film lubricant to the area of the chassis and platform, where the scissor arm wear pads make contact.
- 3 Chock both sides of the wheels at the steer end of the machine.
- 4 Using a suitable lifting device, place a test weight corresponding to the machine maximum load, in the center of the platform deck. Secure the weight to the platform. Refer to the chart below.

GS-1530, GS-1532	600 lbs / 272 kg
GS-1930, GS-1932	500 lbs / 227 kg
GS-2032	800 lbs / 363 kg
GS-2632	500 lbs / 227 kg
GS-3232	500 lbs / 227 kg

Note: In the event of frequent nuisance trips occurring after calibrating a GS-3232 machine, it is recommended to recalibrate the machine, full load and no load, with 250 kg of weight in the platform.

GS-2046	1200 lbs / 544 kg
GS-2646	1000 lbs / 454 kg
GS-3246	700 lbs / 317 kg
GS-4047	770 lbs / 350 kg

- 5 Turn the key switch to ground control.
- 6 At the ground controls, press and hold the Menu Up and Menu Down buttons.
- 7 While pressing both buttons down, pull out the red Emergency Stop Button.

- 8 Release the Menu Up and Menu Down buttons after the ground controller powers up.
- 9 Use the Menu Up or Menu Down buttons to scroll to, Select Option. Press the Enter button.
- 10 Use the Menu Up or Menu Down buttons to scroll to Platform Overload.
- 11 Press the Enter button to select Platform Overload.
- 12 Use the Menu Up or Menu Down buttons to scroll to Platform Overload Calibrate.
- 13 Press the Enter button to select Platform Overload Calibrate.
- 14 Confirm the Platform Overload Calibrate selection by pressing the Enter button again.
- 15 Use the Menu Up or Menu Down buttons to select Full Load calibration.
- 16 Press the Enter button to select Full Load calibration.
- 17 Press the Enter button to confirm rated load is in the platform.
- 18 At the ground controls, press and hold the Function Enable and Platform Up buttons until the platform reaches maximum height.
- 19 **All Models except GS-4047:** When the platform reaches maximum height, press the ground controls Enter button. Allow the ground controls to gather data. **GS-4047 only:** Press and hold the Menu Enter button to determine the maximum height. The machine will lower for 1.2 seconds and then raise in 1.2 second durations, until maximum height is reached. When the platform reaches the maximum height, a message will appear on the LCD screen to release the Menu Enter button.

Note: If at any point the Menu Enter button is released before the message appears on the LCD screen, the calibration procedure will restart at step 18.

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- 20 When prompted, press and hold the Function Enable and Platform Down buttons. The platform will lower, then automatically stop at a predetermined point to gather data. Allow the ground controls to gather data.
- 21 Continue pressing the Function Enable and Platform Down buttons throughout the lowering and data gathering sequence. The machine will stop to gather data and lower several times before the machine reaches the stowed position. When the platform reaches the stowed position, press the enter button.

Note: Software revision H or prior, and GS-3032, GS-2646 and GS-4047 models, continue to step 24.

Note: All other models with software revision J or higher, continue with step 22.

- 22 When prompted, press and hold the Function Enable and Platform Up buttons until the platform reaches full height. When the platform reaches full height, press the enter button.

Note: If the Function Enable or Platform Up buttons are released while the machine is collecting data, the GCON LCD will prompt the user to lower the platform for 5 seconds before prompting to raise the platform to full height again.

- 23 When prompted, press and hold the Function Enable and Platform Down buttons until the platform is fully stowed. When the platform reaches the stowed position, press the enter button.

Note: If the Function Enable or Platform Down buttons are released while the machine is collecting data, the GCON LCD will prompt the user to raise the platform for 5 seconds before prompting to lower the platform to the stowed position again.

Note: If the machine is switched to PCON mode to drive the machine to an area for weight removal, step 3 and steps 5 through 14 will have to be repeated before Full Load Calibration: Part 2 is performed. Additionally, the CO25 fault will appear. This is expected and the data collected in Full Load Calibration: Part 1 has not been lost.

- 24 Using a suitable lifting device, remove the test weight from the platform deck.
- 25 After the weight is removed from the platform deck, press the Enter button to confirm the weight has been removed.

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Full Load Calibration: Part 2

- 26 At the ground controls, press and hold the Function Enable and Platform Up buttons until the platform reaches maximum height.
- 27 **All Models except GS-4047:** When the platform reaches maximum height, press the Enter button. Allow the ground controls to gather data. **GS-4047 only:** Press and hold the Menu Enter button to determine the maximum height. The machine will lower for 1.2 seconds and then raise in 1.2 second durations, until maximum height is reached. When the platform reaches the maximum height, a message will appear on the LCD screen to release the Menu Enter button.

Note: If at any point the Menu Enter button is released before the message appears on the LCD screen, the calibration procedure will restart at step 26.

- 28 When prompted, press and hold the Function Enable and Platform Down buttons to lower the platform. The platform will move down, then automatically stop at a predetermined point to gather data. Allow the ground controls to gather data.
- 29 Continue pressing the Function Enable and Platform Down buttons throughout the lowering and data gathering sequence. The machine will stop to gather data and lower several times before the machine reaches the stowed position. When the platform reaches the stowed position, press the Enter button.

Note: Software revision H or prior, and GS-2032, GS-2646 and GS-4047 models, continue to step 32.

Note: All other models with software revision J or higher, continue with step 30.

- 30 When prompted, press and hold the Function Enable and Platform Up buttons until the platform reaches full height. When the platform reaches full height, press the enter button.

Note: If the Function Enable or Platform Up buttons are released while the machine is collecting data, the GCON LCD will prompt the user to lower the platform for 5 seconds before prompting to raise the platform to full height again.

- 31 When prompted, press and hold the Function Enable and Platform Down buttons until the platform is fully stowed. When the platform reaches the stowed position, press the enter button.

Note: If the Function Enable or Platform Down buttons are released while the machine is collecting data, the GCON LCD will prompt the user to raise the platform for 5 seconds before prompting to lower the platform to the stowed position again.

- 32 When prompted, push the red Emergency Stop button in to complete the Platform Overload Calibration procedure.

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No Load Calibration

- 1 Fully charge the batteries and check the hydraulic fluid level.

Note: The hydraulic fluid level must be between the FULL and ADD marks on the hydraulic tank.

- 2 Apply a thin layer of dry film lubricant to the area of the chassis where the scissor arm wear pads make contact.
- 3 Chock both sides of the wheels at the steer end of the machine.
- 4 Turn the key switch to ground control.
- 5 At the ground controls, press and hold the Menu Up and Menu Down buttons.
- 6 While pressing both buttons down, pull out the red Emergency Stop Button.
- 7 Release the Menu Up and Menu Down buttons after the ground controller powers up.
- 8 At the ground controls, use the Menu Up or Menu Down buttons to scroll to Platform Overload.
- 9 Press the Enter button to select the Platform Overload.
- 10 Use the Menu Up or Menu Down buttons to scroll to Platform Overload Calibrate.
- 11 Press the Enter button to select Platform Overload Calibrate.
- 12 Confirm the Platform Overload Calibrate selection by pressing the Enter button again.
- 13 Use the Menu Up or Menu Down buttons to select No Load calibration.
- 14 Press the Enter button to select No Load calibration.
- 15 Press the Enter button to confirm no load is in the platform.
- 16 At the ground controls, press and hold the Function Enable and Platform Up buttons until the platform reaches maximum height.
- 17 **All Models except GS-4047:** When the platform reaches maximum height, press the ground controls Enter button. Allow the ground controls to gather data. **GS-4047 only:** Press and hold the Menu Enter button to determine the maximum height. The machine will lower for 1.2 seconds and then raise in 1.2 second durations, until maximum height is reached. When the platform reaches the maximum height, a message will appear on the LCD screen to release the Menu Enter button. If at any point the Menu Enter button is released before the message appears on the LCD screen, the calibration procedure will restart at step 16.
- 18 When prompted, press and hold the Function Enable and Platform Down buttons to lower the platform. The platform will move down, then automatically stop at a predetermined point to gather data. Allow the ground controls to gather data.
- 19 Continue pressing the Function Enable and Platform Down buttons throughout the lowering and data gathering sequence. The machine will stop to gather data and lower several times before the machine reaches the stowed position. When the platform reaches the stowed position, press the Enter button.

Note: Software revision H or prior, and GS-2032, GS-2646 and GS-4047 models, continue to step 22.

Note: All other models with software revision J or higher, continue with step 20.

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- 20 When prompted, press and hold the Function Enable and Platform Up buttons until the platform reaches full height. When the platform reaches full height, press the enter button.

Note: If the Function Enable or Platform Up buttons are released while the machine is collecting data, the GCON LCD will prompt the user to lower the platform for 5 seconds before prompting to raise the platform to full height again.

- 21 When prompted, press and hold the Function Enable and Platform Down buttons until the platform is fully stowed. When the platform reaches the stowed position, press the enter button.

Note: If the Function Enable or Platform Down buttons are released while the machine is collecting data, the GCON LCD will prompt the user to raise the platform for 5 seconds before prompting to lower the platform to the stowed position again.

- 22 When prompted, push the red Emergency Stop button in to complete the No Load Calibration procedure.

9-12 Platform Overload Recovery Message

If the ground controls LCD screen displays **OL: PLATFORM OVERLOADED**, the emergency lowering system has been used while the platform was overloaded.

How to Clear the Platform Overload Recovery Message

Note: This message shall be cleared by a person trained and qualified on the troubleshooting and repair of this machine.

Note: Use the following chart to identify the description of each LCD screen control button used in this procedure.



Escape Scroll up Scroll down Enter

- 1 Turn the key switch to the ground controls position and pull out the red Emergency Stop button to the on position at the platform controls.
- 2 Press and hold the ground control **scroll up** and **scroll down** buttons.

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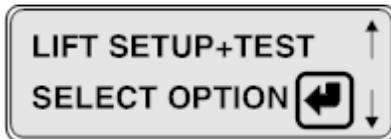
3 Pull out the red Emergency Stop button at the ground controls.

- Result: The ground control LCD display will show the following.



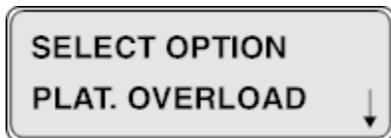
4 Press the **scroll down** button.

- Result: The ground control LCD display will show the following.



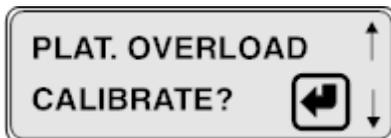
5 Press the **enter** button.

- Result: The ground control LCD display will show the following.



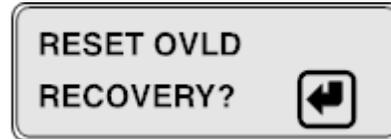
6 Press the **enter** button.

- Result: The ground control LCD display will show the following.



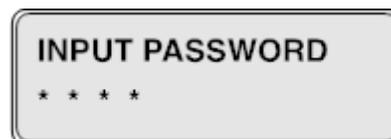
7 Press and hold the **scroll down** button for 5 seconds.

- Result: The ground control LCD display will show the following.



8 Press the **enter** button.

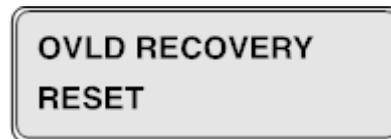
- Result: The ground control LCD display will show the following.



9 Press the buttons in the following sequence: **(down)(down)(up)(enter)**.

Note: After each key press an asterisk (*) will appear on the second line of the LCD display.

- Result: The ground control LCD display will show the following.



Note: After 3 seconds the LCD display will return to **SELECT OPTION PLAT. OVERLOAD**.

10 Push in the red Emergency stop button.