

The following two calibration procedures must and should only be performed on machines equipped with the optional Overload Sensing System.

Perform the previous calibration procedures before performing these.

### EXTENSION SENSOR CALIBRATION

1. If not already done, perform Pre-Calibration Set-up as described in the beginning of these instructions and the Level Sensors and Height Sensor Calibrations before proceeding with Extension Sensor Calibration.
2. Access the EZ-cal by opening the Control Module door, then opening the Lower Control Box door. Attached to the Lower Control Box Door is an EZ-Cal interface display which will be used to perform the calibration.
3. Power the Titan system up. The EZ-cal display will read HELP PRESS ENTER.
4. Press the right arrow twice until the display reads, "ACCESS LEVEL 3".
5. Using the up arrow and right arrow, enter the numbers 1775 then press ENTER. The display should now read "ACCESS LEVEL 2"
6. Press the right arrow twice until the display reads "SETUPS". Press ENTER.
7. Press the right arrow three times until the display reads "EXTENSION SETUPS". Press ENTER.
8. Follow the instructions on the display exactly and operate extend and retract only when the display instructs to do so. You will be instructed to operate Boom Extend to full extension then back to the fully retracted position. When the boom reaches full extension and stops you must release the toggle switch before the calibration instructions can continue. This is also true when the boom reaches the fully retracted position. You will not be instructed to release the toggle switch.
9. After following the EZ-cal instructions and Extension Calibration is complete, you will be prompted to enter the calibration date. Use the up arrow and right arrow to enter the day's date. Once the CAL DATE has been entered, calibration is complete, press ESC 3 times and/or turn off the machine.

### LOAD CALIBRATION

Weight required for Load Calibration:

(1) 1810 kg (4000 lbs)

1. If not already done, perform Pre-Calibration Set-up as described in the beginning of these instructions and the Level Sensors, Height and Extension Sensor Calibrations before proceeding with Load Calibration.
2. Place the machine on firm level ground, with the stabilizers deployed (green Stabilizers Set light will illuminate at Upper Controls box).
3. Load the 1810 kg (4000 lbs) weight in the center of the Load Zone and secure it from movement using the 4 tie-down points located in the platform floor.
4. Extend the boom horizontally to maximum outreach then use the Platform Slide function to slide the platform fully forward. Do not elevate the boom.
5. Access the EZ-cal by opening the Control Module door, then opening the Lower Control Box door. Attached to the Lower Control Box Door is an EZ-Cal interface display which will be used to perform the calibration.
6. Power the Titan system up. The EZ-cal display will read HELP PRESS ENTER.

7. Press the right arrow twice until the display reads, "ACCESS LEVEL 3". Press ENTER.
8. Using the up arrow and right arrow, enter the numbers 1775 then press ENTER. The display should now read "ACCESS LEVEL 2"
9. Press the right arrow twice until the display reads "SETUPS". Press ENTER.
10. Press the right arrow until the display reads "LOAD SETUPS". Press ENTER.
11. Press the right arrow until the display reads "CALIBRATE LOAD". Press ENTER.
12. Follow the instructions on the EZ-cal display through a series of lift lower cycles. At the end of each lift and lower the switch must be released for procedure to continue.
13. The first calibration is the DYNAMIC calibration which is one complete lift and lower cycle.
14. After the DYNAMIC calibration is complete, the next calibration is the LOADED calibration. During this procedure the platform will lift to full elevation but will stop at various points along the lift and lower cycle to take static measurements.
15. After the LOADED calibration is complete, **DO NOT** do the EMPTY calibration. Escape out of the calibration. You will see an error message stating the calibration is not complete.
16. Retract the boom to the stowed position. Leave the platform in the forward-most position (platform at the front of the platform beam). Then retract the stabilizers so the machine is resting back on all four tires.
17. Go back into the SETUPS -> LOAD SETUPS -> CALIBRATE LOAD menu. The system will ask if you want to rerun the DYNAMIC and LOADED calibration, press ENTER until the display reads "REDO EMPTY?". Select YES (ENTER). Calibration will go through another lift and lower cycle, stopping at various points to take static measurements.
18. Once the calibration is complete, a screen should appear to enter the date. Enter the date that the machine was successfully calibrated and hit ENTER. You should now see "FINISHED!" appear on the screen. The machine is now calibrated and ready to be used.