



# Homing

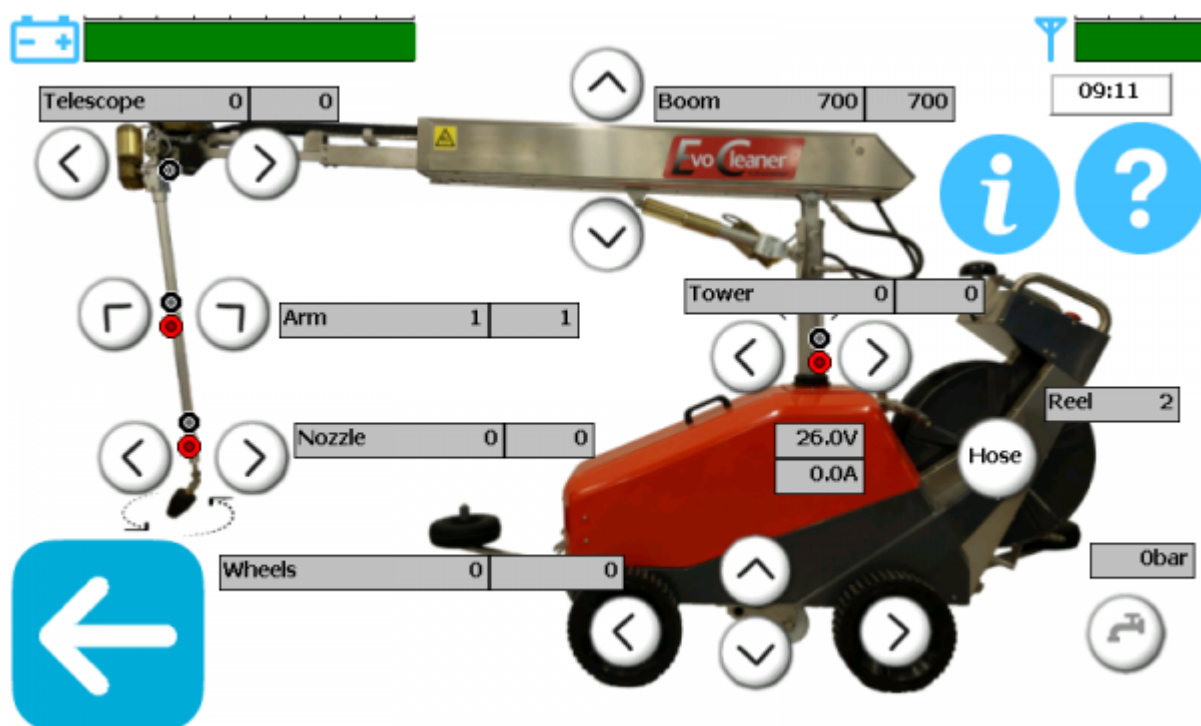
Homing means initialization (calibration) of the boom, tower, telescope, arm and nozzle absolute positions. If the robot have lost its homing, you need to redo the homing procedure.

## Symbol explanations:

 = Homing needed.


 = Zero position sensor is active.

These symbols is shown at the function that it refers to.



## Instruction

1. From the start screen, go to manual screen.

2. Press the -button (*information / detailed view*) on the top right corner so you can see the absolute positions for all functions.

3. Move the **boom** to the absolute bottom. Check that the position is zeroed (0 or +1) automatically when it stops at the bottom.

- a. If not zeroed, continue to hold the boom down-button until you receive a question.
- b. Press "Yes" on the question.

4. Move the **tower** twice in each direction, passing the home position sensor. The sensor indicator is

active when showing a black/white dot on your screen. The red homing indicator disappears when the homing is done.

- **a.** Check that the sensor is active when the tower points forward.
- **b.** Move the tower to the left, about 20 degrees, until the sensor indicator becomes inactive.
- **c.** Move the tower to the right until the sensor indicator becomes active and then inactive again.
- **d.** Repeat the sweep to the left and to the right until the red dot disappears.
- **e.** Move back so the tower points straight ahead.



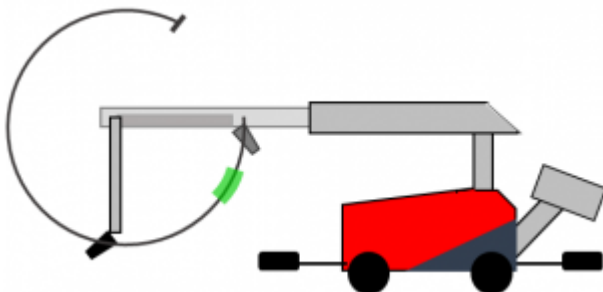
*Green = Active sensor area*

**5.** Move the **telescope** outwards a couple pulses and then fully back in again.

- **a.** Check that the position is zero when the telescope is fully retracted.
- **b.** Check that the zero position sensor is active when the telescope is at zero (fully retracted).

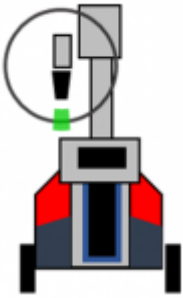
**6.** Move the **arm** twice in each direction, passing the home position sensor in both directions.

- **a.** Check that the sensor is inactive when the arm is parallel with the boom
- **b.** Move the arm outwards, past 30 degrees, until the sensor indicator becomes active and then inactive again
- **c.** Move the arm inwards until the sensor indicator becomes active and then inactive again
- **d.** Repeat the sweep outwards and inwards until the red homing symbol disappears.
- **e.** Move the arm back to parallel with the boom.



*Green = Active sensor position*

**7.** Move the **nozzle** at least two full revolutions in each direction (first, move the arm out so the nozzle is clear from the boom).



*Green = Active sensor position*

**8.** Make sure that all red homing dots have disappeared.

- **a.** If not, retry the homing for the function that has a red homing dot (you might have missed one sweep past the zero sensor).

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Still having problems even after homing? Your robot could also have lost its parking positions. Contact **Envirologic** or your distributor for further assistance.

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