

SB, Automower, 260 ACX, 230 ACX, Solar Hybrid, 220 AC, Signal booster, 2009-06

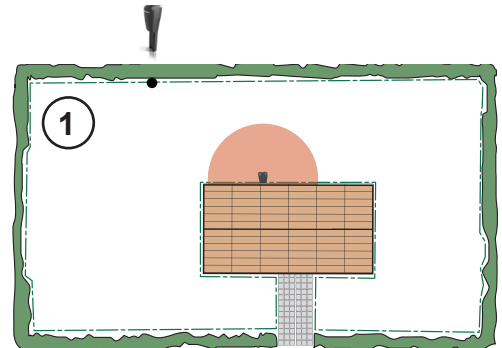
For long loop wire installations with double-flash in the charging station the signal booster (522 42 58-01) increases the signal strength.

- The Booster only solves loop signal related problems that cause the charging station LED to double-flash (high loop impedance). It does not increase a loop signal that is weak because of other reasons, such as e.g. underground steel structures.
- The Booster should only be used together with charging station circuit board 544 45 41-02 or higher, or it will not increase the signal strength.
- The Booster makes boundary loop lengths of up to approximately 800 m possible. Without Booster the max length is 500 m. The heavy duty loop wire cable 522 91 41-01 should be used for a maximum possible loop wire length. On installations where there are many islands typically a longer boundary wire length than the above mentioned is possible. The actual maximum distance has to be tested on site:
 - Place the mower on the part of the installation where the distance to the boundary wire is the greatest (or the A signal is the weakest).
 - Start the mower.
 - If the mower starts up and establish connection to the loop signal within 1 - 3 startup attempts the installation is ok. The charging station LED may or may not double-flash.
- The guide wire signal is not at all or very marginally increased. With or without Booster a maximum guide loop length of approximately 300 m is recommended (guide wire plus current return anti-clockwise through the boundary wire to the charging station). Longer guide loops may be possible, but could cause the mower to leave the guide wire at a turn while following to or from the charging station. Testing on site must be done.
- No polarity consideration has to be taken when connecting the Booster.
- When the Booster is connected the LED is lit up during a few seconds to indicate function OK. The LED is then turned off to save energy.
- The corridor width settings must be checked and possibly changed after the Booster has been installed. Probably the CW setting should be reduced if the mower shall follow at the same distance as without the Booster installed.

BOOSTER INSTALLATION

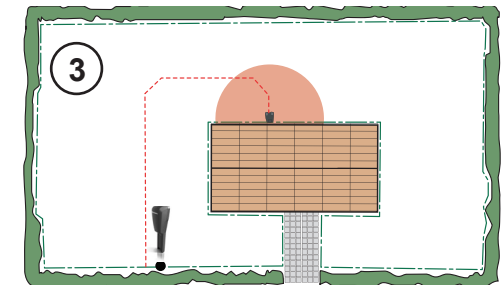
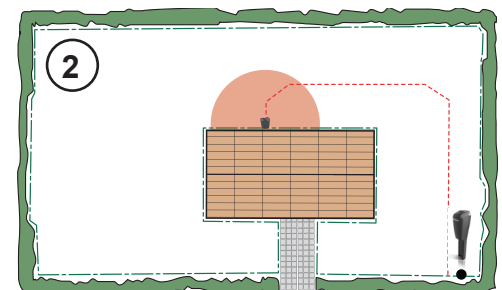
No Guide wire is installed:

Install the Booster somewhere in the middle of the boundary wire loop, see illustration 1.



One Guide wire is installed:

Install the Booster on the part of the boundary wire loop where the Guide return current is present, as close to the Guide wire connection to the boundary wire as possible, as in illustration 2 & 3.



Two Guide wires are installed:

Install the Booster on the part of the boundary wire loop where the Guide return currents from both Guides are present, as close to the nearest Guide wire connection to the boundary wire as possible as in illustration 4.

