



Belrobotics	
Pioneer in the automatic maintenance of large grounds	
1	<i>Prepare station and robot for the winter</i>
2	<i>Restart check-list after the winter</i>
3	<i>Routine maintenance of the robot by the end-user</i>
4	<i>Winter maintenance of the robot</i>
5	<i>Updates</i>
	Appendices
a.	<i>Service manual – Bigmow and Parcmow</i>
b.	<i>Service manual – Greenmow</i>
c.	<i>Service manual – Ballpicker</i>



THE GRASS MASTERS

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Belrobotics
Maintenance

1

Prepare station and robot for the winter

Robot

1. Fully charge the robot before removing it
2. Remove the robot from its docking station and clean it
3. Put it in a dry place for the winter. Switch it off. Do not connect any other device to the batteries and do not disconnect the battery. Only use the docking station or a Belrobotics charging system to charge the battery
4. Have your robot maintained by a qualified service dealer

Docking station

1. The docking station does not need to be removed, except in countries with high snow
2. If the docking station remains outdoor, the electricity supply to the station should be maintained at all times, except in case of high snow or flood

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Prepare station and robot for the winter

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Restart check-list after the winter

1. Clean and brush contacts of both docking station and robot (2 sides)
(taken care of by the service dealer in the winter maintenance program)
2. Check front L/R bumper/switch, L/R lift sensors, L/R body sensors
(taken care of by the service dealer in the winter maintenance program)
3. Check cutting blades
(taken care of by the service dealer in the winter maintenance program)
4. Check voltage of battery. It is supposed to be enough to resume mowing without recharge
5. Start the robot and test it comes back normally to the docking station
(F1 return)

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Routine maintenance of the robot by the end-user

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Maintenance of Belrobotics robots

Routine maintenance. To be carried out by end-user

• **Once a week in normal conditions**
Twice a week in severe weather conditions

- Remove grass and debris
- Clean cutting heads and wheels
- Either with a brush or compressed air. No water!

• **Once a month**

- Clean with abrasive paper charging contacts on both the working station and the robot

• **Two times to four times a year**

- Replace all cutting blades

• **Long rest periods (more than 3 full days):**

- Either remove robot from the docking station or switch off the robot
- Just like any Li-powered device (mobile phones, etc.)

BIGMOW

Instructions Manual



English Version

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Read this instruction once when you start using the BIGMOW

2014 Version 10074-02-01

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Maintenance of Belrobotics robots
Winter service carried out by the service dealer

See check list in service manual

Refer to videos featuring main service jobs

In particular

- Clean and brush with compressed air. No water!
- Check and replace if required
 - the rubber profile of tactile sensor if required
 - the front wheels bearings if required
 - the bearings of electric motors of cutting heads
 - the bearings of the anti-friction disk of cutting heads
- Clean and lubricate gears (see videos)
- Clean and brush contacts of station and robot
- Check battery voltage

BELROBOTICS
TECHNICAL DATA

SERVICE MANUAL

PARCOW AND BIGMOW



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Maintenance of Belrobotics robots

Winter service: [meet our training bench!](#)





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Belrobotics Updates

Current practice

- Update softwares on robot, docking station and T&T module

Doable

- Replace Zeitlauf gear motors by IMS gear motors
- Replace NiCd batteries by LiFePO4 batteries
- Replace the cable cutting height system by the strap system on the Greenmow

Doable, but only when really essential

- Add lift detection on robots that do not have such detection
- Convert waterproof sonars 2012 (with sonar board) to integrated sonars (2013)
- Replace the bodywork sensor back the new one (BM system) on GM before 2014

Not to do, because too expensive

- Replace "old" T&T module by "new" (2013 version). Firmware can be updated
- Convert AC units to DC units
- Convert docking station and robot from "Old" signal (till 2011) by "New" signal (as from 2012)

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