

Bona Portable DCS 2.0

Manual and safety instructions



WARNING

Read the instructions manual
before using the machine

AMO530020

rev. JUL 2016

Bona®

TECHNICAL DATA



Motor:	2 x 1200w
Voltage (+/- 10%):	115 VAC
Frequency:	50/60 Hz
Fuses:	20A
Max Flow:	235 cfm
Max Vacuum:	96 in of water lift
Hose:	33 ft X Ø 1,97in
Coarse filter:	10 sq. ft
HEPA filter:	H13 16 sq. ft
Noise level:	80 dB(A)
Bag system:	Longopac® 65ft
Length/Wide/Height:	31X23X45,5 in
Weight:	106lb
Dust capacity:	70l / 18,5 gallon
Hour meter:	99 999 hrs

We congratulate you on your choice of a new Bona Portable DCS 2.0.

Read the complete user instructions carefully before starting to use the machine. If anything is not clear, you can obtain help from your dealer or from Bona. You can also visit our web site, www.bona.com, where you can find manuals, schematics and spare parts.

Important!

This Operator's Manual only concerns Bona Portable DCS® 2.0

Bona Portable DCS® 2.0 may only be used for handling dry non explosive, materials.

Bona Portable DCS® 2.0 is designed to handle wood dust when sanding floors and vacuuming with Bona's equipment. Bona AB disclaims all responsibility if the Bona Portable DCS® 2.0 is used for other purposes or is handled differently than described in this Operator's Manual.

The Bona Portable DCS 2.0 requires 14 – 15amps. Bona recommends plugging the unit into a 20amp plug to avoid tripping breakers and other electrical issues.

Pay special attention to the Safety Instructions.

Read the Operator's Manual before starting to use Bona Portable DCS® 2.0.

Unpacking

When unpacking the machine, please check that following items are included:

- 2" x 33' Vacuum hose
- Floor Cleaning equipment/wand
- 35' 20amp twist lock power cable – This cable is unique to the Bona Portable DCS 2.0 and will not work with other Bona machines.
- Extra Longopac
- Operators Manual
- Hose connector (38-50mm)
- Hose lock 60mm
- Hose lock 45-50mm
- Longopac sealing zip ties (60 Pcs)
- Wand 38mm, 3-pieces
- Floor tool (dia 38X300mm)
- Crevice tool-rubber (dia 38X200mm)
- Scissors
- Velcro one wrap strap (10-pcs)
- Hose connector (50-38mm)

SAFETY INSTRUCTIONS



DANGER means: Severe bodily injury or death can occur to you or other personnel if the **DANGER** STATEMENTS FOUND ON THIS MACHINE OR IN THIS Owner's Manual are ignored or are not adhered to. Read this entire manual before operating this machine.



WARNING means: Injury can occur to you or to other personnel if the **WARNING** statements found on your machine or in this Owner's Manual are ignored or are not adhered to. Damage to the machine or to other property may occur as well, if the **WARNING** is ignored.



EXPLOSION DANGER! Explosion can occur if statements with this sign are not followed or are ignored by you or other personnel.

SAFETY INSTRUCTIONS CONTINUED



EXPLOSION DANGER. Sanding/finishing wood floors can create an environment that can be explosive. The following safety procedures must be adhered to:



- Cigarette lighters, pilot lights, and any other sources of ignition can create an explosion when active during a sanding session. All sources of ignition should be extinguished or removed entirely, if possible, from the work area.
- Work areas that are poorly ventilated can create an explosive environment when certain combustible materials are in the atmosphere; e.g., solvents, thinner, alcohol, fuels, certain finishes, wood dust and other combustible materials. Read the manufacturer's label on all chemicals being used to determine combustibility. Keep work area well ventilated.
- Remove contents of the dust bin when the bin is full. Remove the contents of the dust bin each time you finish using the machine. Never leave the dust bin unattended with sanding dust in it.
- Do not empty the contents of a dust bag into a fire.
- Hitting a nail while sanding can cause sparks and create an explosion or fire. Always use a hammer and punch to countersink all nails before sanding floors.

Handling



- Cables damaged through crushing or cracking can be dangerous if used and should be replaced immediately. Risk of personal injury.



- Do not connect the machine to an unearthed socket. Risk of personal injury.



- Make sure that the foundation is solid so the Bona Portable DCS 2.0 doesn't tip over. Risk of personal injury and property damage.



- Risk of pinch injuries when handling the toggle fasteners, cleaning unit and cyclone.



- Do not vacuum burning or smoldering particles as the machine can catch fire. If a fire should break out, pull out the plug from the socket and extinguish using the available fire fighting equipment.



- The machine must not be used in environments where explosive gas can occur. Large risk for explosions.



- Do not look into the suction pipe or suction hose if blocked. Large risk of injury to the eyes.



- Do not point the suction hose towards body parts when the machine is running.
Avoid placing your hand or other parts of the body against the suction inlet if the suction hose is not fitted. Risk of personal injury.



- Do not vacuum water, oil or any other liquids.



- While lifting the machine, make sure that the dust container is emptied and that no person is under the lifted machine. Risk of person injury and property damage.

Service



- Remove the plug from the wall socket when carrying out maintenance work. Reassemble all guards on the motor and fan components once servicing is complete. Risk for person injury.



- Health impairing dust can be spread when cleaning the coarse filter and during filter and bag replacement. Accordingly, the user should wear tight fitting clothing, protective glasses, protective gloves and a breathing mask conforming to protection class P2.



- Do not make holes in any filter. Risk of dust dispersion.

Handling

Connect the power cable to the right wall outlet. Assemble the hose to the sanding machine or to the suction pipe together with the floor nozzle. Start the Bona Portable DCS® 2.0 by using the push switch.

The dust extractor separates material in three stages:

- The first stage consists of a cyclone separator, where all coarse material is separated before reaching a filter.
- The second stage consists of a folded coarse filter that filters out the fine visible dust.
- The third stage, final filtering, uses a HEPA13 filter, which separates the health-impairing dust which is not visible to the eye.

Coarse filter characteristics

The coarse filter is strong and very stable. Low pressure drop with extremely good separation.

In order to attain maximum capacity from the dust extractor it is important that the filter is cleaned, look at "Cleaning the coarse filter", or replaced as soon as the suction effect starts to drop. It is recommended to change the filter 2 – 3 times per year.

HEPA13 filters operating characteristics

The Hepa13 filter is dimensioned for fine, dry dust and should be preceded by a pre-filter

Caution

- HEPA13 filter cannot be cleaned and must be replaced when spent.

Caution

- The operating stability of the HEPA13 filter drop and can be completely destroyed if exposed to water.

Caution

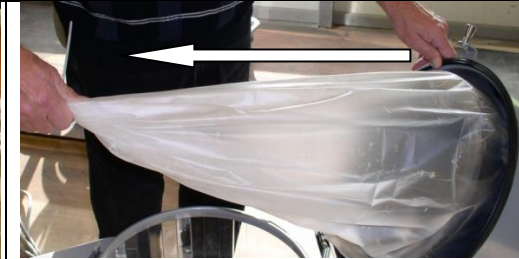
- It is recommended to change the HEPA filter 1 – 2 times per year.

Motor and vacuum pump

The dust extractor is equipped with a 1 phase motor with a direct mounted vacuum pump. The motor is cooled by a separate cooling fan

Collection

Particles and dust fall down into a transparent dust container under the cyclone separator. Inside the dust container is a Longopac bag hose system which should be replaced when full. The system consists of a 65 ft folded plastic hose, which gives about 20 dust free bag changes.

		
1. Seal the bag with two cable ties.	2. Cut between the cable ties.	3. Pull out a new bag from the Longopac.

Replacing the Longopac magazine

Start off with locking the wheel brakes.

			
1. Cut the bag open	2. Loosen the straps	3. Pull out the magazine	4. Remove the gasket and discard the Longopac rest
			
5. Place a new Longopac magazine and check the opening according to the picture	6. Cut off the sealers	7. Fold the inner Longopac over the edge	8. Mount the gasket
			
9. Turn the magazine over and pull out a new bag	10. Put the magazine in place	11. Attach the straps	12. Seal the bag with a sealer and cut off any rest
NOTE: Always clean the tank from all the particles before you start the machine again! Otherwise, the HEPA filter will be damaged or clogged. (does not cover warranty)			

Cleaning the coarse filter through cleaning valve

In order to get maximum suction capacity is the dust extractor equipped with a cleaning valve which effortlessly cleans the coarse filter.

		
1. Start the machine Start button is set to "1" (Machine ON)	2. Block the suction hose by the work place. Wait about 7-10 sec. while the machine builds up a vacuum.	3. Press the filter cleaning valve hard
Repeat the whole process 3 times.		

N.B. Clean the filter every time you start and before you stop the machine.

Replacing the coarse filter

		
1. Open the cyclone lid	2. Remove the lid	3. Replace the coarse filter and place the old filter in a plastic bag

Replacing the HEPA13 filter

			
1. Remove lid	2. Loosen the nuts	3. Remove filter in a plastic bag	4. Seal the bag and place a new filter
5. Place the HEPA filter in a plastic bag to prevent harmful particles spread into the environment!			

Warning

Health impairing dust can be spread when cleaning the coarse filter and during filter and bag replacement. Accordingly, the user should wear tight fitting clothing, protective glasses, protective gloves and a breathing mask conforming to protection class PFF3 or NIOSH approved N95 Dust Respirator Mask.

CONSUMABLES

To order spare parts, see schematics with article list,
This is available at: <http://spareparts.bona.com/>

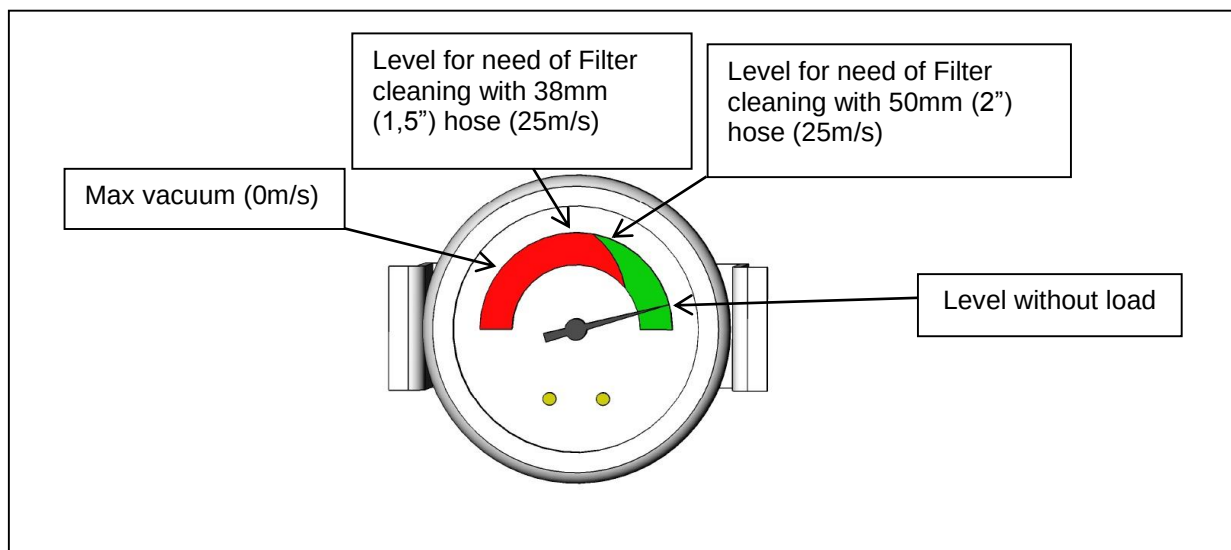
Trouble shooting

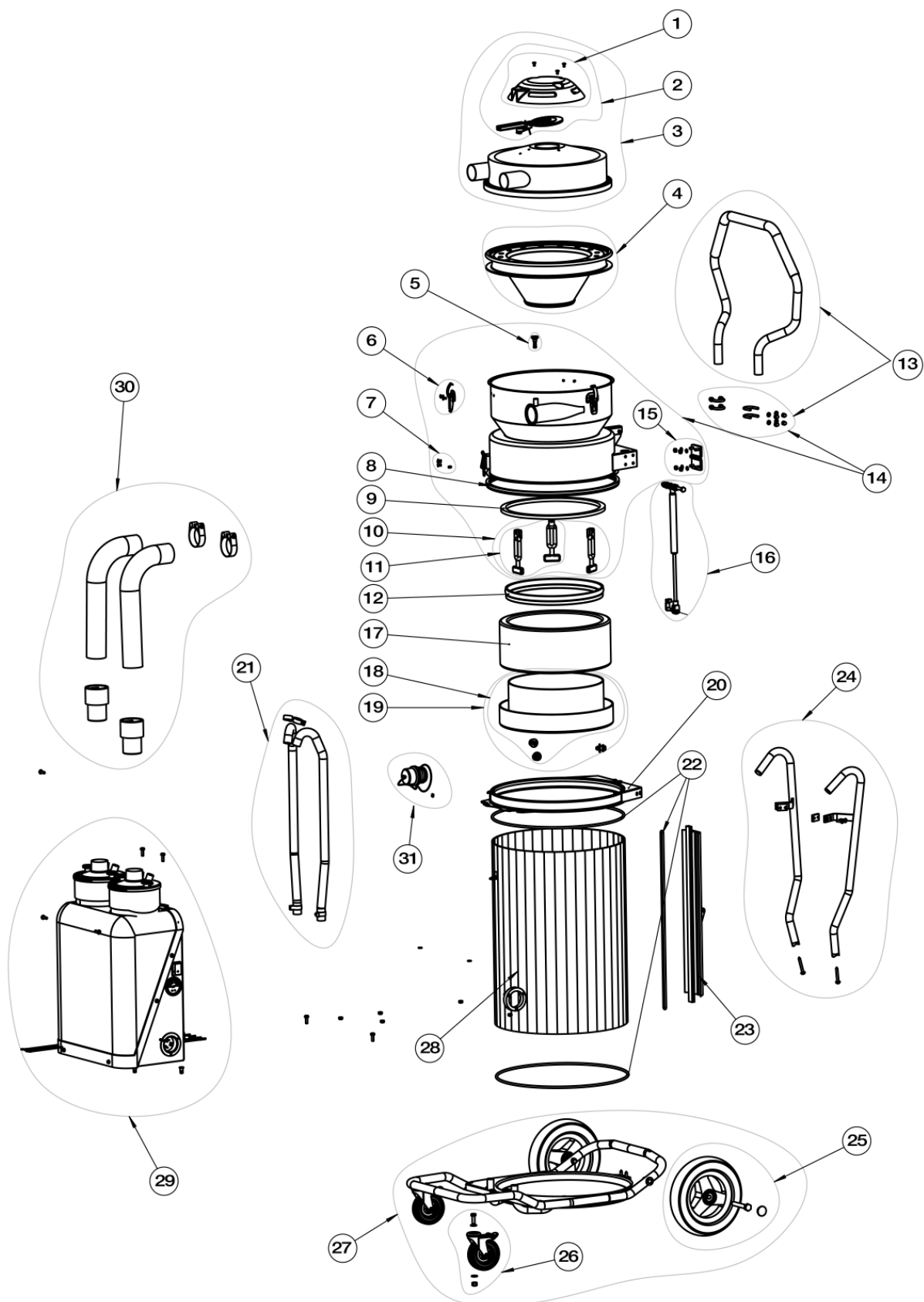
The machine is constructed and adjusted to a demanding environment and task, but the user may notice that the machine contains precision made components which should be protected against hard blows and jolts. Filter, seals, fasteners and connections are thoroughly adjusted and chosen for the operators working environment. That is why it is of great importance that the operator and service personnel treat the machine with insight and knowledge in order for the machine to work perfectly for its purpose.

Problem	Cause/Fault	Action
The motor is not running	No power Broken cable The switch is broken	Connect to the wall socket Change the cable Change switch
The motor stops right after start	Wrong fuse	Replace the fuse
The motor is running but there is no suction	The hose is not connected The hose is blocked	Connect the hose Suck out the blockage backwards
The motor is running but there is inadequate suction	Hole on the hose Clogged filter Worn seals	Replace the hose Clean or change filter Check/replace worn seals
The machine is leaking dust	The filter has loosen or is damaged	Check and change if necessary
Abnormal machinery sounds		Order service
Dust in the HEPA filter	Leak Longopac, Longopac-holder cyclone	Check that Longopac bag is sealed properly and have no holes. Also check the seal between Longopac-holder and cyclone.

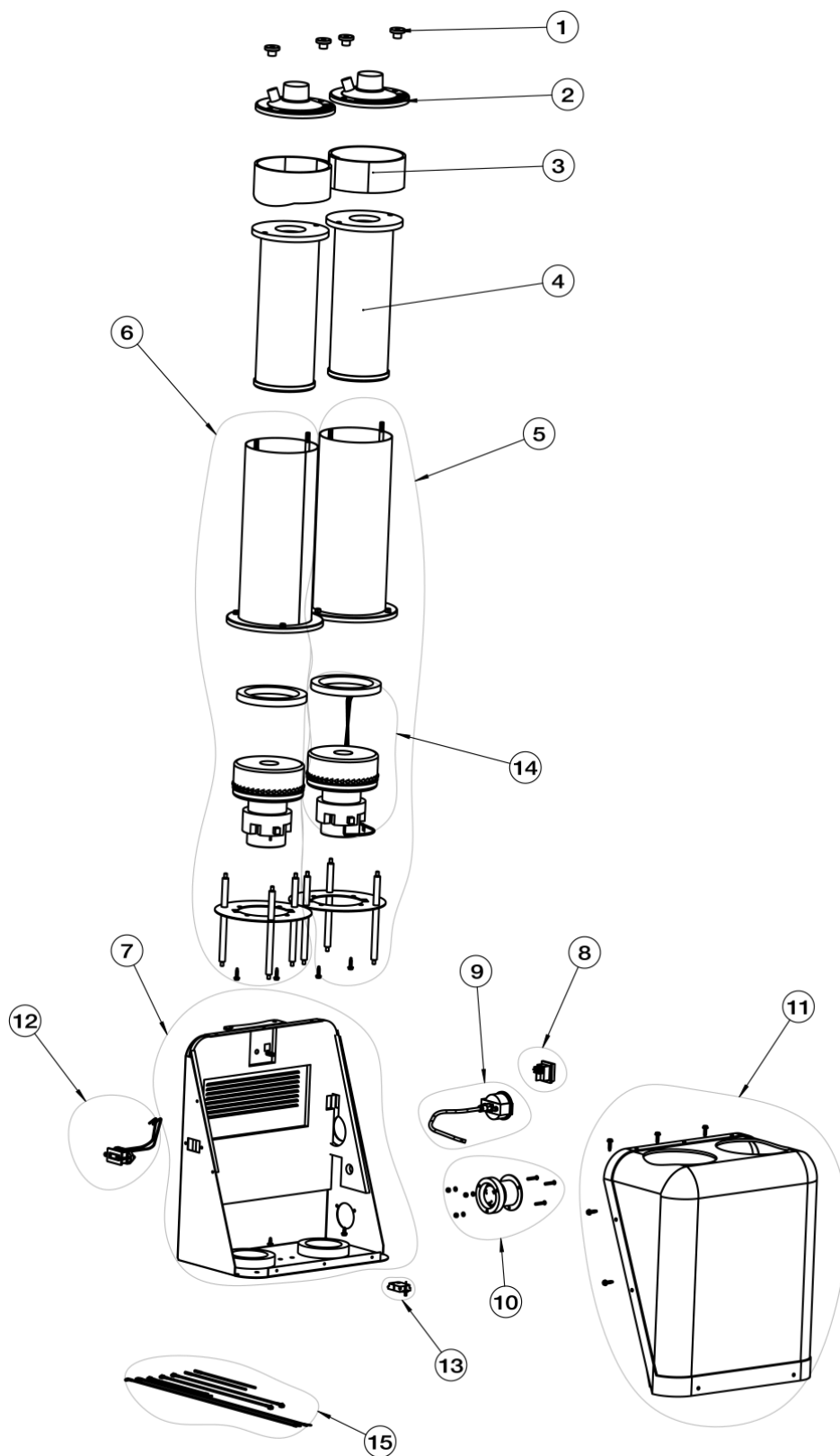
Manometer function

Bona Portable DCS® 2.0 is equipped with a manometer for monitoring the filter conditions. The meter is checking the machines filter status but it will also react on outside added hoses etc. Due to this the machine will respond to the total load. This will not affect the function of the machine with added load. This means that the meter will be allowed into the red area as shown below.





Pos	Item	Description
01	ASO539081	Top cover kit ex. clean unit
02	ASO539127	Cleaning unit
03	ASO539041	Cover complete
04	ASO539032	Folded Course Filter DCS II
05	ASO539745	Hose Locking
06	ASO539799	Tension Set Complete (3 pcs)
07	ASO539372	Hook Clamp 118-G3
08	ASO539451	Gasket L=1270mm
09	ASO539158	Extra gasket cyclone/Longopac
10	ASO539134	Rubber straps (3 pcs)
11	ASO539144	Rubber straps (2 pcs)
12	ASO539108	Gasket Ring
13	ASO539148	Handle Complete
14	ASO539080	Cyclone Complete
15	ASO539155	Hinge Set (2 pcs)
16	ASO539146	Gas Spring Complete
17	ASO539001	Longopac box 4-pack
18	ASO539145	Longopac Bracket 2-Attachment
19	ASO539135	Longopac Bracket 3-Attachment
20	ASO539887	Container Bracket Over
21	ASO539150	Vacuum Hose
22	ASO539149	Screw/Sealing Set to Container
23	ASO539438	Back Rail
24	ASO539147	Slide Protection Set
25	ASO539151	Rear wheel set (2 pcs)
26	ASO539152	Front wheel set
27	ASO539042	Wagon kit
28	ASO539560	Container
29	ASO539043	2 motor & cover kit
30	ASO539044	Vacuum connection hose kit
31	ASO539046	Inlet seal kit
Not shown	AS2000440	Vacuum hose kit 2" x 33'
Not shown	ASO539053	Vacuum hose/machine connector(Black cuff to connect to DCS 2.0)
Not shown	AS3100272	2" hose cuff
Not shown	AS3100670	2" x 1.5" slip cuff
Not shown	AS0001476	35' 20amp DCS 2.0 power cord



Pos	Item	Description
01	ASO539289	Easy row cap nut (2pcs)
02	ASO539022	HEPA Filter Cover
03	ASO539023	HEPA Filter Seal
04	ASO539033	HEPA Filter
05	ASO539024	Motor tube (with nipple)
06	ASO539027	Motor tube (without nipple)
07	ASO539028	Chassis kit
08	ASO539011	On/off switch
09	ASO539452	Vacuum meter
10	ASO539029	20amp twist lock inlet
11	ASO539037	Motor cover
12	ASO903888	Hour meter
13	ASO539039	Soft start
14	ASO539040	Motor 120v 1200w
15	ASO539047	Cable kit 120v

Warranty

Register your Bona Portable DCS 2.0 online at bona.com/register

A 24 month factory warranty (from the date of invoice) against material and manufacturing faults applies to Bona Division Sanding's own manufactured machines and Bona DCS with accessories manufactured after 01-01-2008.

Bona Division Sanding pledges to rectify material and manufacturing faults free of charge provided that the machine, with paid freight, is sent to us with the relevant warranty claim form describing the fault.

The factory warranty only covers new sales.

We do not undertake any other form of compensation or liability to damages.

Transport damage or transport costs will not be compensated. In the event of transport damage it is up to the receiver to contact the relevant transport company for compensation.

The warranty does NOT cover faults that have occurred via normal wear, incorrect spare parts, carelessness, incorrect use, procedures without Bona Division Sanding's approval or that the machine is connected to incorrect current.

THE WARRANTY DOES NOT COVER:

- Consumable materials such as wheels, electric cables, abrasives, lamps, coal brushes, etc.
- Indirect damage, damage and errors that occur due to external damage, accidents, poor maintenance, overload, repairs performed outside of our knowledge and approval, or damages for another reason outside of our control.
- With the use of parts produced by another company outside of our control.
- Electrical components with current variations beyond what has been specified in the manual.
- If payment for the machine is not made according to agreement

In the event of a warranty claim, the machine or the agreed part must be returned to us or our dealer for warranty testing and for potential warranty repair or replacement.

During the factory warranty period, service or repairs may only be carried out upon approval by a manager at Bona Division Sanding and only performed by staff at Bona AB or approved staff at Bona AB Division Sanding.

