

# BEAM Alliance Operation Manual



**BEAM**  
Electrolux

**Congratulations! You are now the proud owner of a BEAM Central Vacuum System... the ultimate in cleaning equipment.**

Say “good-bye” to old fashioned sweepers. You’ll never have to lug a heavy, awkward vacuum again. Your BEAM Central Vacuum System will change your cleaning routine. From its ease of use and versatility, to its quiet and dust-free operation, your BEAM will help eliminate the drudgery of vacuuming and give you a cleaner, healthier indoor environment. Before using your BEAM Central Vacuum System, read this manual to learn the proper way to use this cleaning system. It will help give you years of trouble-free cleaning performance.

## **TABLE OF CONTENTS**

<b>Important Safeguards</b>	<b>3</b>
<b>Grounding/Earthing Instructions</b>	<b>4</b>
<b>General Information</b>	<b>5</b>
<b>1.0 Installation</b>	<b>5</b>
1.1 Planning	5
1.2 Central Vacuum Location	5
1.3 Central Vacuum Installation	6
1.4 Intake Flange	6
1.5 Muffler Installation	7
1.6 Optional HEPA Filter Installation	7
1.7 Exhaust	8
1.8 Optional Bag Adapter	8
1.9 System Test / Operation	8
<b>2.0 Maintenance</b>	<b>9</b>
2.1 Motor	9
2.2 Dirt Bucket and Bag Adapter	9
2.4 Optional Disposable Bag	9
2.5 Optional HEPA Filter Maintenance	9
<b>3.0 Trouble-Shooting</b>	<b>10</b>
3.1 Automatic Shut-Off	10
3.2 Partial Loss of Suction	10
3.3 Total Loss of Suction	10
3.4 Motor Refuses to Start	10
<b>4.0 Instructions: BEAM Alliance LED/LCD Screens</b>	<b>11</b>
4.1 Power Button	11
4.2 Communication Link	11
4.3 Screen Saver	11
4.4 Variable Speed Indicator	11
4.5 Empty Bucket Indicator	12
4.6 Performance Bars	12
4.7 Empty/Flashing Performance Bars	12
4.8 Motor Fault Indicators	13
4.9 Error Codes	13
4.10 Set Clock on Power Unit	13
4.11 Navigation Buttons	13
<b>5.0 Instructions: BEAM Alliance Hose Handle</b>	<b>14</b>
5.1 Power Button	14
5.2 Variable Speed Control	14
5.3 System Indicator	14
5.4 Variable Speed Indicator	14
<b>6.0 Service Information</b>	<b>15</b>
6.1 Service Warranty	15

# IMPORTANT SAFEGUARDS

When using an electronic appliance, basic safety precautions should always be followed, including those listed below.

**READ ALL INSTRUCTIONS BEFORE USING THIS VACUUM SYSTEM.**

## WARNING



### To reduce the risk of fire, electric shock or injury:

- This vacuum cleaner is intended for dry pick up only. Do not use on wet surfaces or pick up any liquids, hot debris or any flammable items that would cause harm to the vacuum cleaner.
- Keep cord away from heated surfaces.
- Do not allow vacuum to be used as a toy. Close supervision is necessary when this vacuum is used by or near children.
- Use this vacuum only for its intended use as described in this manual. (Use of attachments not recommended by manufacturer may cause fire, electric shock, injury or damage to system components.)
- Connect to a properly grounded (earthed) outlet only. See grounding (earthing) instructions.
- Mount unit at least 30 cm (12 inches) from the floor, ceiling and corner sidewall to insure adequate ventilation for motor.
- Never operate this vacuum if it has a damaged cord or plug, if it is not working properly, or if it has been dropped or damaged. Return to authorized dealer/distributor for repair.
- Never disconnect plug by pulling cord. To disconnect from outlet, grasp the plug, not the cord.
- Do not put any object into openings. Do not use with any opening blocked. Keep free of dust, lint, hair and anything that may reduce air flow/suction. Lack of air flow will cause the motor to overheat.
- This vacuum cleaner creates suction. Keep hair, face, fingers, all body parts and loose clothing away from any openings.
- Never operate without dust bag and/or filter in place.
- Turn off all controls before unplugging.
- Never handle plug, cord or power unit with wet hands.
- Use extra care when cleaning on stairs.
- Do not locate the power unit in a high temperature area or where it is inaccessible, for example, an attic or crawl space.
- Do not use extension cords or outlets with inadequate current carry capacity.
- Do not pick up anything that is burning or smoking, such as cigarettes, matches or hot ashes.
- Do not use on wet surfaces.
- Do not vacuum drywall dust or baking flour as it may cause damage to your vacuum.
- This appliance is not intended for use by persons, (including children), with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- If the power cord is damaged, it must be replaced by a special cord available from the authorized local dealer/distributor.
- Keep your work area well lighted.
- Unplug electrical appliances before vacuuming them.
- Do not pick up flammable or combustible liquids such as gasoline, or use in areas where they may be present.

## SAVE THESE INSTRUCTIONS

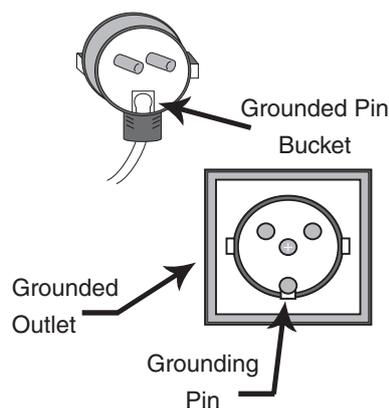
# GROUNDING/EARTHING INSTRUCTIONS

This vacuum must be grounded (earthed). If it should malfunction or breakdown, grounding (earthing) provides a path of least resistance for electric current to reduce the risk of electric shock. This vacuum is equipped with a cord having an equipment-grounding conductor and grounding (earthing) plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded (earthed) in accordance with all local codes and ordinances.

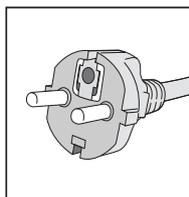
**WARNING:** Improper connection of the equipment grounding (earthing) conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded (earthed). Do not modify the plug provided with the appliance – if the plug will not fit the electrical outlet, have a proper outlet installed by a qualified electrician.

## 220/230/240V Models

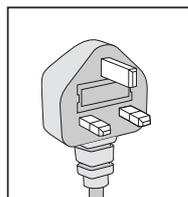
This vacuum is for use on a circuit having a nominal rating at 220/230/240 volts and is provided with a specific cord and plug to permit connection to a proper electrical circuit. Make sure the vacuum is connected to an outlet having the same configuration as the plug. No adaptor should be used with this vacuum. If the plug will not fit the electrical outlet, have a proper outlet installed by a qualified electrician.



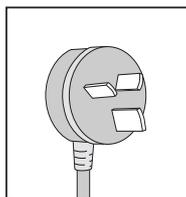
## Plug Types



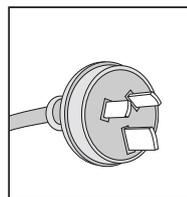
Type E



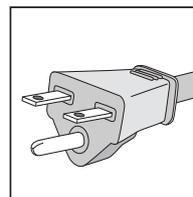
Type G



Type H



Type I



Nema 6-15 R



Waste of Electrical and Electrical Equipment (WEEE). The symbol on the product or on its packaging indicates that this product may not be treated as household waste. Instead it should be handed over to applicable collection point for the recycling of electrical and electrical equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about this product, please contact your local waste disposal service or the local authorized dealer/distributor where you purchased the product.

# GENERAL INFORMATION

The central vacuum system is designed for dry pick up of household dirt and dust and is not intended to pick up liquids. Avoid picking up hard or sharp objects with the system to prevent hose and plastic pipe damage or clogs. This central vacuum system is intended for household use only.

## Service Information

The instructions in this booklet serve as a guide to routine maintenance. For additional information, contact your local authorized dealer/distributor.

## Rating Plate

The style, model and serial numbers are indicated on the rating plate located on back left side of power unit. For prompt and complete service information, always refer to these numbers when inquiring about service (refer to Figure 1).

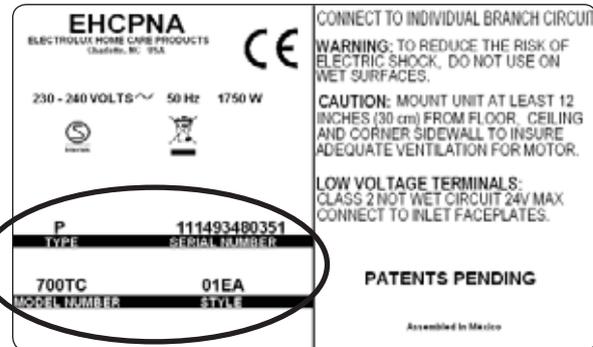


Figure 1

# 1.0 INSTALLATION

## 1.1 Planning

If your home already has a system of plastic pipes and inlet valves, you are ready to install the power unit, (refer to Install Central Vacuum section 1.3). If not, you can contract a professional to have the central vacuum system installed. Contact your local authorized dealer/distributor if you have any questions.

## 1.2 Central Vacuum Location

The central vacuum should be located away from the general living area, yet accessible so you can remove the dirt bucket and inspect the vacuum. A typical location would be in a garage or utility area where emptying the dirt bucket would be more convenient. Other suitable locations are in the basement, laundry room or a ventilated storage room.

## 1.3 Central Vacuum Installation

The vacuum hangs on the mounting bracket which is screwed to the wall. The center of the mounting bracket should be about 122 cm (48 inches) from the floor to allow convenient removal of the dirt bucket. Mount unit at least 30 cm (12 inches) from the floor, ceiling and corner sidewall to insure adequate ventilation for motor. If mounting on plaster or panel walls, ensure screws enter studs. If mounting on concrete wall, drill the wall with a masonry bit and insert the appropriate wall anchors (refer to Figure 2).

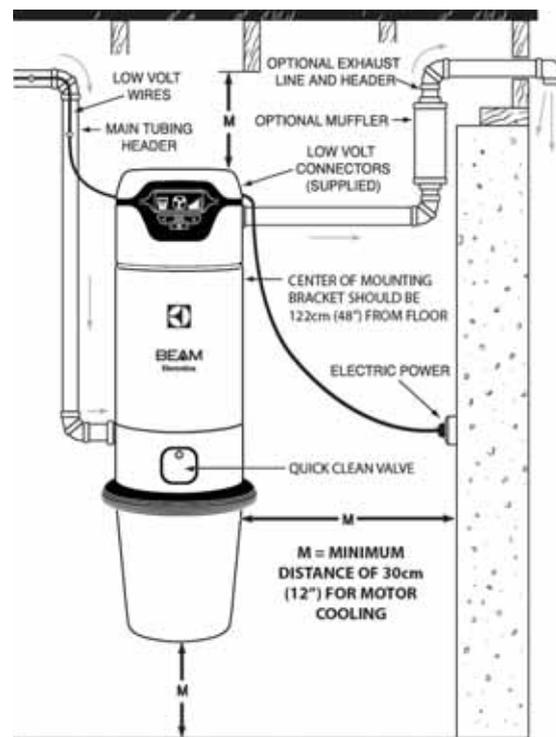


Figure 2

## WARNING

- **WARNING:** Do not block the exhaust pipe. Lack of ventilation will cause the motor to overheat.
- **WARNING:** Do not locate the power unit in a high temperature area where it is inaccessible for example, an attic or crawl space.

Before hanging the power unit on the wall ensure the intake flange on the power unit is positioned in the correct direction (see section 1.4); muffler is installed correctly (see section 1.5), optional HEPA filter is installed correctly (see section 1.6); and optional bag adaptor is installed correctly (see section 1.8).

Strip the low-voltage wires that were installed with the main trunk line. Connect the wires to the spring-loaded connectors on the back of the power unit (refer to Figure 3).

Hang the power unit on the bracket. Connect the main tube line to the intake flange of the vacuum with the connector and clamp provided.

**DO NOT** glue the main tube line to the power unit so that the power unit may be removed for future maintenance or service.



Figure 3

### 1.4 Intake Flange

Your power unit has been designed for either a left or right pipe intake. If the pipe from your house is located on the right side of the power unit, you will need to change the direction of the intake flange. To do this, remove the two Torx 20 screws located on the intake flange and turn the intake flange 180°. Secure the intake flange with the same two Torx 20 screws previously removed (refer to Figure 4).

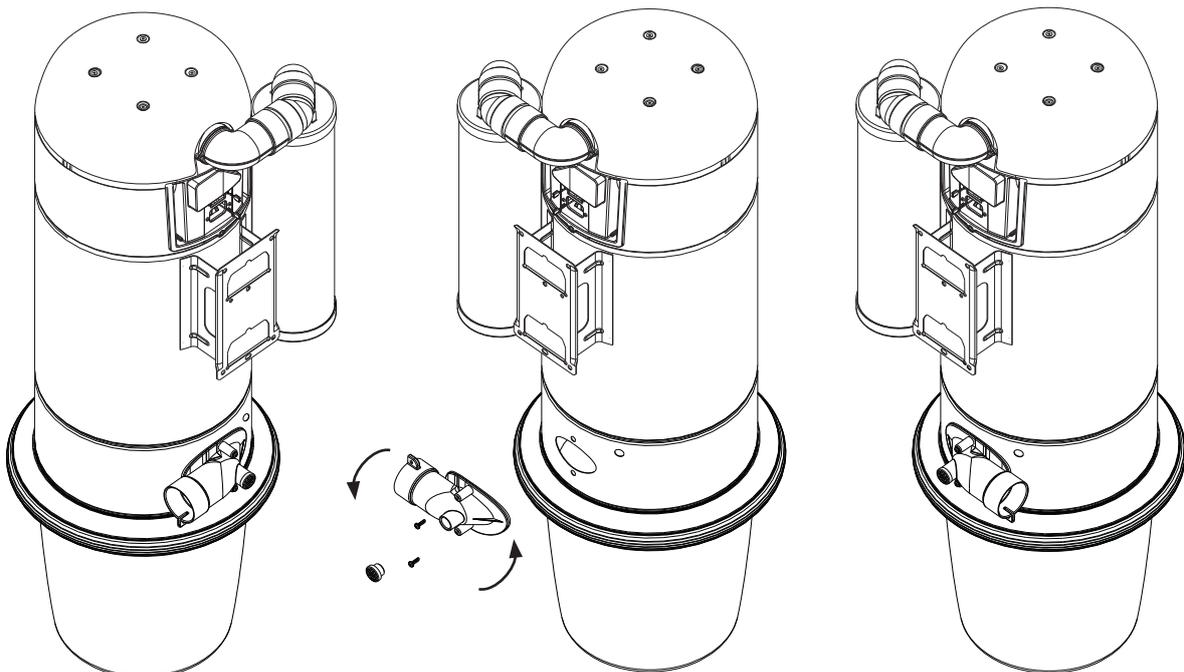


Figure 4

## 1.5 Muffler Installation

1. To install the muffler on the power unit, connect one end of the short 90° elbow to the muffler as indicated in Figure 5.
2. Glue the opposite end of the short 90° elbow to the WIDE open end of the long pipe adaptor. Before connecting the short 90° elbows and long pipe adaptor, confirm the direction of the intake flange located on the bottom, back of the power unit. Ensure the muffler is located on the opposite, OPEN end, of the intake flange as illustrated in Figure 5. Otherwise, the muffler will interfere with the pipe intake.
3. Connect both the long pipe adaptor and muffler assembly to the back of the power unit, securing the muffler with the Torx 20 screws provided.

**NOTE: DO NOT** glue the muffler pipe adaptor to the central vacuum unit.

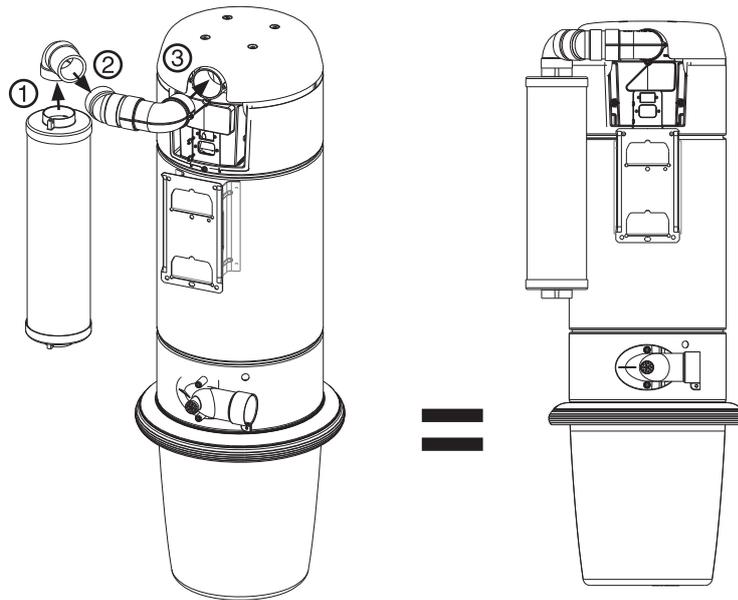


Figure 5

## 1.6 Optional HEPA Filter Installation

1. To properly install the optional HEPA filter, secure the 90° elbow to the body of the HEPA filter with the Torx 20 screw provided.

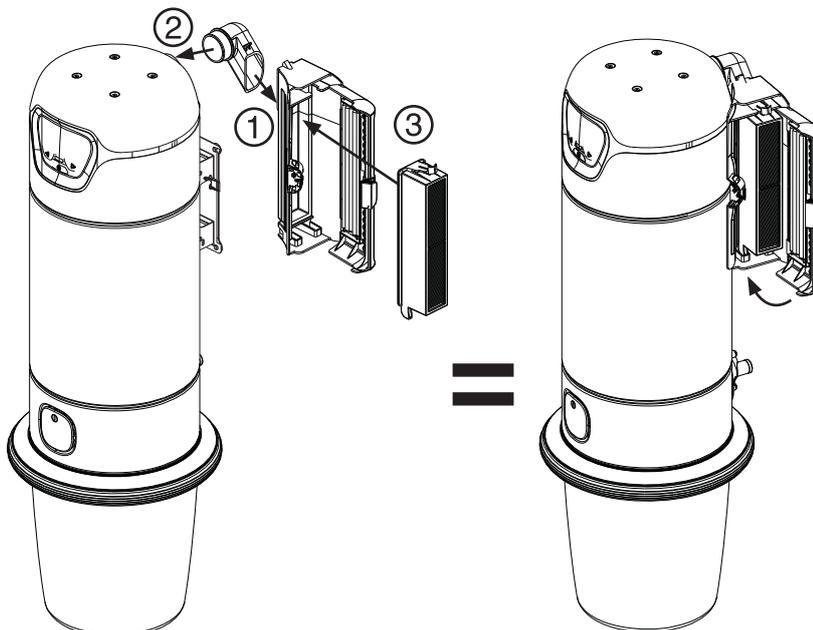


Figure 6a

2. Secure both the 90° elbow and HEPA filter to the back of the power unit using the second Torx 20 screw provided.
3. Insert the HEPA filter with its two plastic tabs on the bottom of filter cartridge into the cavity of the HEPA filter and snap into place. Close the HEPA door gently. If the door does not close easily, remove and re-insert filter.

The HEPA filter can only be installed on the right side of the power unit and will not interfere with the intake pipe on either side of the unit (refer to Figure 6a).

## 1.7 Exhaust

If the optional muffler or HEPA filter are not utilized and the power unit is exhausted to the outside, the long muffler pipe adaptor must be installed directly to the exhaust pipe away from the wall. Do not operate the vacuum vented directly into the wall as it could cause damage to the wall and/or vacuum. See Section 1.5 for adaptor instructions.

**NOTE:** One elbow must be installed if the muffler or the HEPA filter is not used, (refer to Figure 6b).

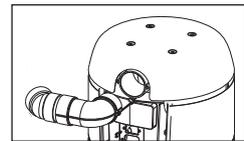


Figure 6b

## 1.8 Optional Bag Adaptor

The optional bag adaptor is easy to install prior to placing the central vacuum unit on the wall with the dirt bucket removed. The bag adaptor has three unique ends, each connecting to a specific component.

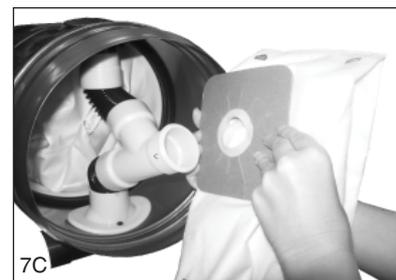
1. Using the two Torx 20 screws, secure end “A” to the intake flange on the back inside body of the central vacuum unit (refer to Figure 7A).
2. Secure end “B” to the Quick Clean Valve from the inside of the central vacuum unit by aligning and locking the tabs into place (refer to Figure 7B).
3. Push the cardboard collar from the filter bag on to the open hanging end “C” of the bag adaptor (refer to Figure 7C).
4. Reconnect the dirt bucket to the central vacuum unit and ensure the filter bag is completely sealed in both the central vacuum unit and dirt bucket.



7A



7B



7C

Figure 7

## 1.9 System Test / Operation

Be certain to comply with local electrical codes and regulations. Plug the unit into an electrical outlet. You are now ready to check the vacuum installation:

- Be sure the dirt bucket is properly secured to the vacuum.
- Plug the hose into each inlet valve and turn on the central vacuum system with the power button on the handle ensuring the electrical contacts operate properly.

- The central vacuum system can also be turned on/tested by pressing the power button on the power unit.
- Check each inlet valve for air leaks.
- Check each pipe connection for air leaks.

**WARNING:** Do not use extension cords or outlets with inadequate current carrying capacity. Connect the power cord to a dedicated branch circuit.

Before hanging the power unit on the wall, install either the muffler or the HEPA filter supplied with the unit.

## 2.0 MAINTENANCE

Instructions in this book serve as a guide to routine maintenance. Proper airflow and suction are maintained by keeping the dirt bucket and filter clean, plastic tubing and hose free from clogs.

### 2.1 Motor

The BEAM *Alliance* central vacuum system is equipped with a flow-thru motor and will never need lubrication. Should you experience any motor problems, please contact your local authorized dealer/distributor.

### 2.2 Dirt Bucket and Bag Adaptor

Reduced airflow or suction indicates the central vacuum system is not operating at maximum efficiency. If the dirt bucket is full and the filter is clogged, air cannot pass through the unit limiting performance.

To remove the Press & Release Bucket, clasp opposing positions on the bucket ring, press with thumbs and pull down to remove bucket and empty contents. (refer to Figure 8).



Figure 8.

To re-install dirt bucket, lift the bucket back in to place until you hear a “click”. The central vacuum system will not operate properly if the dirt bucket is not installed correctly.

### 2.3 Optional Disposable Bag

Your vacuum may be equipped with a disposable filter bag, which can be discarded when full. A full filter bag will reduce vacuum and minimize performance. Empty the filter bag 2-3 times a year depending, on how much dirt is collected. Replacement filter bags may be purchased from a local authorized dealer/distributor.

How to change the Filter Bag:

1. Remove the dirt bucket.
2. Remove the filter bag from the bag adaptor.
3. Put new filter bag in place.
4. Turn the filter bag’s opening to secure filter bag.
5. Re-install the dirt bucket.

## 2.4 HEPA Filter Maintenance

We recommend changing the HEPA filter after the dirt bucket has been emptied three times, or after being used for one year, whichever comes first. To replace your HEPA filter:

1. Open the HEPA filter door with button located on the side, center of door.
2. Press down on tab at top of filter and discard the entire filter.
3. Insert the HEPA filter by inserting the two plastic tabs at bottom of filter cartridge into the cavity of the HEPA filter. Snap into place (refer to Figure 9).
4. Close HEPA door gently, without force. If the door does not close easily, re-insert filter.



Figure 9.

## 3.0 TROUBLE-SHOOTING

### 3.1 Automatic Shut-Off

If the central vacuum power unit is unintentionally left ON for a prolonged period, the operating system has an automatic 30-minute shut-off timer. The shut-off timer will automatically reset when the system is turned on by the hose or power unit.

To protect the power unit from over heating, the operating system has a thermal protection shut-off and will automatically turn OFF the vacuum. In the event an automatic shut-off occurs, a motor fault icon will appear on the power unit screen and a red fan blade will flash on the hose handle. Please allow the unit to cool for approximately 5 minutes so it can reset itself. After 5-minutes, turn the power unit on. If the power unit does not turn ON, let the unit cool down for an additional 5 minutes. If the power unit still does not operate, please contact your authorized dealer/distributor.

### 3.2 Partial Loss of Suction

1. Empty dirt bucket. Inspect filter.
2. Turn ON vacuum and check the suction at each inlet. If suction is not the same at each inlet, the line is partially clogged. To locate the clog, start with the inlet closest to the vacuum and check the suction. Continue checking each successive inlet until you locate the inlet where a suction loss is occurring. The clog will be between that inlet and the previous one checked. To remove the clog, call your local authorized dealer/distributor.

### 3.3 Total Loss of Suction (with motor running)

1. Check for power light on screen.
2. If you have good suction at the unit, but no suction in the hose then there is a clog in the pipes or hose. To remove the clog, call your local authorized dealer/distributor.

### 3.4 Motor Refuses to Start

1. Ensure central vacuum is plugged into an electrical outlet.
2. Check for power.
3. If problem persists, call your authorized local dealer/distributor.

## 4.0 INSTRUCTIONS: BEAM ALLIANCE LED/LCD SCREENS

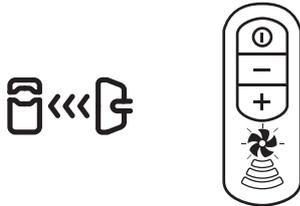
### 4.1 Power Button

The Power symbol on the power unit screen or button can turn the unit ON/OFF. The unit can also be activated by the hose handle from an inlet valve inside the home, Quick Clean Valve on the power unit or through other cleaning tools through a low volt system.



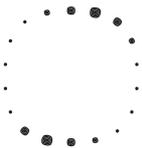
### 4.2 Communication Link (optional feature on select units)

When the BEAM Alliance hose is connected to an inlet valve, the Communication Link icon will appear at the top of the power unit screen. The fan blade on the BEAM Alliance hose handle will pulsate with a glowing blue light to indicate communication between power unit and hose handle when the hose is in standby mode or OFF position.



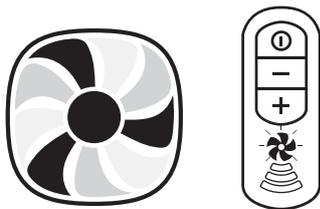
### 4.3 Screen Saver (optional feature on select units)

When the power unit wakes from sleep mode, screen saver mode appears for 2-3 seconds before other icons appear on screen.



### 4.4 Variable Speed Indicator (optional feature on select units)

When the power unit is ON, the fan blade will spin at a rate based on the speed indicated by the hose handle. When the motor speed is reduced, the motion of the fan blade is also reduced. When the motor speed increases, the motion of the fan blade also increases.

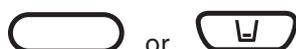


## 4.5 Empty Bucket Indicator (optional feature on select units)

For every 25 hours of use (approximately 6 months) the empty bucket indicator icon will flash on the power unit screen. The power unit also communicates to empty the dirt bucket to the BEAM *Alliance* hose handle with a RED flashing fan blade. As this notice is time based, you may find the dirt bucket partially full or too full. If you have pets, a workshop or vacuum frequently, you should check the dirt bucket more frequently.



Once the bucket is emptied, simply push one of the two reset buttons located on the power unit and hold for 5 seconds.



If the power supply is interrupted or unplugged, the empty bucket indicator memory keeps track of its previous time status.

## 4.6 Performance Bars (optional feature on select units)

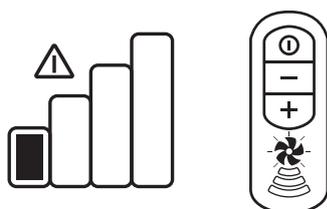


Three to four performance bars indicates the system is performing at the optimal level. Performance levels will change depending on variable speed settings and when specialty cleaning attachments are used. When the unit is OFF, performance bars will display as empty.

**Note:** it is normal to see performance changes when specialty attachments are used causing a restriction in airflow.

## 4.7 Empty/Flashing Performance Bars (optional feature on select units)

The Performance Bar icon is displayed on the power unit when the motor is unable to operate at optimal system performance. When 2 bars or less are illuminated, the air flow is restricted, meaning the vacuum's cleaning performance has decreased. The power unit will communicate the error message to the *Alliance* hose handle showing a flashing RED fan blade.



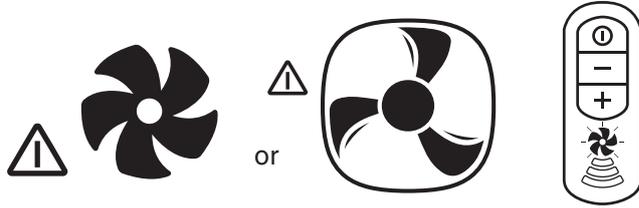
Air flow can be restricted by several factors:

- 1) Overloaded Dirt Bucket
- 2) System Blockage
- 3) Motor Wear

The most common cause is an overloaded dirt bucket, that needs emptying. Alternatively, there may be a system blockage, and the hose and piping system should be checked for blockage. If you continue to receive low system performance, please contact your authorized dealer/distributor.

## 4.8 Motor Fault Indicators

If there is a system fault or malfunction with your power unit, the fan blade icon will flash with an exclamation icon. If these symbols appear on the power unit screen, turn the power unit OFF and call for service. The power unit communicates the system fault to the *Alliance* hose handle with a RED flashing fan blade.

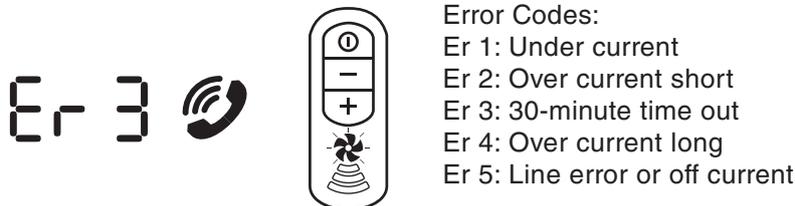


These symbols may appear due to the following faults:

- Maximum system run time
- Electronic problem
- Voltage or current/power surge
- Power unit not responding to electronics
- Motor failure
- Mechanical failure of bag & clogged motor

## 4.9 Error Codes (optional feature on select units)

An error code will appear if your unit requires service from an authorized service technician. The power unit communicates the system fault to the *Alliance* hose handle with a RED flashing fan blade. Turn OFF the power unit and call for service to resolve the system alert/error code.



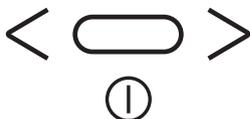
## 4.10 Set Clock on Power Unit (optional feature on select units)

12:58

To set the time, use the left ( < ) or right ( > ) toggle buttons on the power unit to select the clock and hold the Enter Button (  ) for 5 seconds. Select either 12-hour or 24-hour time format and set the time using the left ( < ) or right ( > ) toggle buttons, and press Enter (  ) to complete the sequence.

## 4.11 Navigation Buttons (optional feature on select units)

Below the display screen, are buttons for are Left ( < ); Right ( > ); Enter (  ); and Power (  ). To modify the Time or reset the Empty Bucket indicator, scroll to the appropriate screen icon and press the Enter button for 5 seconds. Follow the screen prompts.



## 5.0 INSTRUCTIONS FOR BEAM ALLIANCE HOSE HANDLE

**NOTE:** The BEAM *Alliance* hose and hose handle will only function with a BEAM *Alliance* central vacuum system. If you received an Alliance hose and do not have a BEAM *Alliance* power unit, please contact your local authorized BEAM dealer/distributor to obtain the proper hose for your central vacuum system.

### 5.1 Power Button

The Power button on the top of *Alliance* hose handle will turn the unit ON/OFF when the hose is plugged in to an inlet valve inside the home or Quick Clean Valve located on the front of power unit. The unit can be activated by the Power button on the power unit screen.

### 5.2 Variable Speed Control

To decrease the suction, press the (-) button. To increase suction press the (+) button.

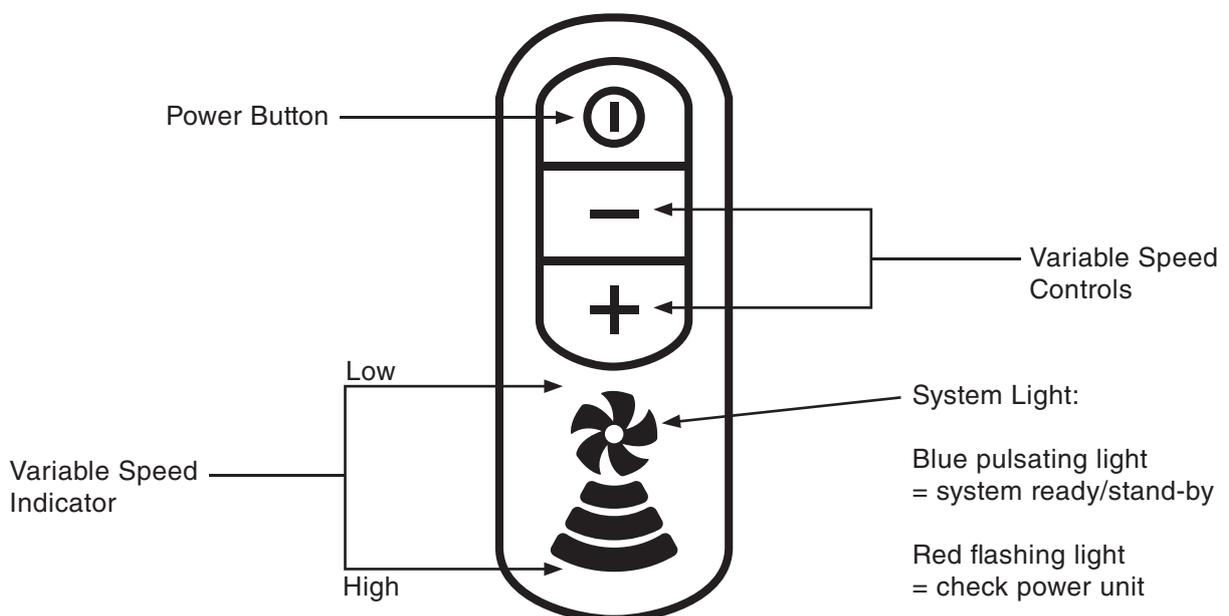
### 5.3 System Indicator

When the *Alliance* hose is connected to an inlet valve in your home or Quick Clean Valve on the front of the power unit, the hose handle fan blade icon pulsates with a glowing BLUE light that indicates communication between the hose handle and power unit.

When the unit is turned ON from the hose handle, the fan blade icon turns to a solid BLUE colour. When it is time to empty the bucket, or the system indicates a performance problem, the fan blade will turn RED. If you see a RED flashing fan blade, turn the system OFF immediately. Check the power unit to identify the cause. To learn more about what can cause the hose handle fan blade to flash RED, please read sections 4.5 to 4.9.

### 5.4 Variable Speed Indicator

The *Alliance* hose handle will indicate system performance and strength of suction with the Variable Speed Indicator. When the system turns ON, all four lights of the Variable Speed Indicator will light, indicating high speed/suction. The lowest speed/suction is indicated with a single lighted fan blade. To adjust the speed/suction, press either the (-) or (+) buttons.



## **6.0 SERVICE INFORMATION**

The instructions in this booklet serve as a guide for routine operation and maintenance. For more information, contact your local authorized dealer/distributor.

### **6.1 Service Warranty**

Warranty service is managed by your local authorized dealer/distributor.

**For additional product information  
visit [www.beam.com](http://www.beam.com)**

**Sold and serviced by:**



© 2013 Electrolux Home Care Products Ltd. #87237



**BEAM**  
Electrolux