Professional Troubleshooting Solutions, con't.

#6 Clog in hose.

A. Reverse the hose at inlet on power unit. Suck it out.
B. Drop kitchen knife or heavy object thru hose - sling it or squeeze hose and twist to get through.
C. Shove garden hose thru vac hose (don't turn water on!).

#7 Unit is good, pipes have leaks.

A. Recent work done on house?
B. Recent wallpapering or paneling? Inlet removed or re-installed wrong?
C. Inlet lid broken?
D. Hidden or forgotten inlet?
E. Inlets installed in floor; pipe fell down or loose.
F. Turn unit on and walk around house listening for leak.
G. Inlet roughed in but not found on finish?
H. Pipe running underground has break in it.
I. Recent gardening or tree has strangled it.

#8 The Power unit has bad suction.

A. If multi-motored unit: are both working?
B. Check power unit gaskets and cracks in housing.
C. Improper voltage into power unit.
D. Loose wires.
E. Mini-breaker has malfunctioned.
F. On cyclonic unit: 1) Unit and debris in motor fan blades; 2) Lint and debris on screen on intake; 3) Too much back pressure from exhaust run being far. Something is blocking exhaust line.
G. On bag type unit: Excessive amount of very fine plaster dust clogging primary or secondary filter.
H. Motor loose. Lid not tight/filter in the way.

#9 Short in power unit.

A. Directly isolate low voltage leads alone (disconnect all auxiliary switches).
B. Short in relay (very rare).

#10 Short in low voltage system.

A. Recent attic work or someone in crawlspace?
B. Rats chewed through wire?
C. Disconnect any splices you can find and check continuity of short.
D. Worst case: re-route wire from any other working inlet or wire. (Possibly running wire behind baseboards, under carpet, in closets, or in air ducts.)

#11 Relay or circuit board getting power but not starting unit.

A. Most likely motor brushes.
B. Isolate motor and see if it works.
C. Check wiring from relay or circuit board to motor.
D. Motor can fail even with brand new brushes.

#12 The power unit is not getting electricity.

A. Check house circuit breaker.
B. Try vacuum in another outlet.
C. Is the circuit breaker the right size for the power unit?
D. See what is on the circuit - is it overloaded?
E. Continually recheck the system after you get power to see if it was the vac that had tripped the circuit.
F. If necessary, have an electrician look at it.

#13 Transformer and motor not getting power.

A. Bad circuit board? Bad cord (rare)?
B. Bad transformer, check for spark between two low voltage wires out of transformer.
C. Bad relay, check points: arc across to see if it solves it.

#14 Low voltage in hose is not working.

A. If switch feels "mushy" then it needs to be replaced.
B. Remove hose from wall and take apart the handle end. Look for lint or other debris in contact points.
C. Make sure hose is being fully inserted into inlet.
D. Hose may need to be replaced.

MD
CENTRAL VACUUMS

CENTRAL VACUUM ACCESSORY

OWNER'S MANUAL
Stealth Hose & Tool Kit

M.D.Manufacturing, Inc.

builtinvacuum.com

Stealth Kit Includes:

• Stealth Power Brush • Crushproof Electric Hose • 13" Axis Floor Brush • Deluxe Dusting Brush • Upholstery Tool • Crevice Tool	• Wall Clamp (2) • Main Telescopic Wand • Secondary Telescopic Wand • Deluxe Tool Caddy • Wire Hose Hanger • Clip-on Tool Caddy

Warranty: M.D. Manufacturing Inc. warrants the Stealth Power Brush with a LifeTime Belt Warranty, 5-year Motor Warranty, 3-year Warranty on other Stealth components, and 2-year warranty on the hose and attachments. This warranty does not include damage to the product resulting from accident, misuse, or repairs performed by unauthorized personnel. If the product should become defective within the warranty period, or you have questions regarding warranty or service, call Customer Service at 800-997-2278 .

REGISTRATION: In lieu of a card, please register online at https://builtinvacuum.com/registration/stealth.html

WHEN USING AN ELECTRICAL APPLIANCE, BASIC PRECAUTIONS SHOULD ALWAYS BE FOLLOWED, INCLUDING THE FOLLOWING:

IMPORTANT SAFETY INSTRUCTIONS

Read these operating instructions carefully.

- Be sure hose is inserted securely into the inlet valve before attempting to vacuum
- Always keep hands, feet, hair and clothes away when vacuuming.
- Do not use on any wet surfaces.
- Do not leave the vacuum on unattended and do not allow the vacuum to be used as a toy.
- Do not leave hose plugged in when not in use or during servicing of your central vacuum unit
- Do not put any objects into openings. Do not use with any openings blocked: keep free of dust, lint, hair, and anything that may reduce air flow
- Do not suck up matches, ash or cigarettes that are still burning.
- Do not suck up flammable liquid materials or any other liquid material.
- Avoid vacuuming hard or sharp objects or damage may result.
- Do not vacuum over electrical cord. It can become tangled and create and electrical hazard.
- Do not handle hose, outlets or vacuum unit with wet hands.
- Use only as described in this manual. Use only manufacturer's recommended attachments.

REGISTRATION:

In lieu of a card, please register online at
https://builtinvacuum.com/registration/stealth.html

Professional Troubleshooting Solutions

#1 Electrical failure.

A. If the inlets are Supervalves, plug the power brush directly into the valve. If the power brush works, the problem is in the high voltage lines in the hose – likely a blown fuse in the hose. Also see #14.
B. Check brush for bad neck tilt switch or reset button.
C. Put power directly to brush motor to see if the motor is bad.
D. Check cord connections from hose to brush.
E. Check to see that Supervalves/Electravalves have 110 volts.

#2 Clog somewhere else in the system.

A. Check power brush.
B. Check wands.

#3 Clog in vacuum tubing.

A. Check fitting just inside inlet and just inside of power unit for debris.
B. Isolate exactly where clog is — by running 1 styrofoam ball (each numbered) thru each inlet. Find which balls made it to the power unit.
C. Reverse vacuum with other portable vacuum or built-in vacuum (first disconnect built-in vacuum from vacuum lines.) Suck from the inlet that is bad.
D. Run electrician's fish-tape thru and try to hook object.
E. Plug into inlet, put hand over hose end to build pressure, then suddenly release. Try this multiple times from various inlets.
F. Run paper towel thru as a "pig" towards motor unit, then reverse suck with a portable to jar it.
G. Run paper towel thru from motor unit toward portable at nonfunctioning inlet.
* Very important: Now run paper towel thru all inlets and make sure they all arrive in power unit. If they don't, repeat steps A thru F.
* If these solutions will still not free up the line - approximate where clog is and locate if accessible. (attic, crawlspace, closet...)
G. Cut pipe and feel suction and visually inspect.
H. Run paper towel through and listen for humming or vibration - possible nail in pipe or picture hung with toggle bolt into pipe.
I. Run small string thru from motor unit to inlet w/ portable then tie heavier string – attach large object to heavier string. (Always tie a safety line to large object to pull it back if needed).
J. Locate exact location by creating noise with ping-pong ball. Insert in inlet and turn on unit (remove inlet to get ball in). (Find least obvious way of lifting flooring or cutting into back of cupboard or ceiling to access clogged spot. Cut pipe, remove clog, patch back access.)
K. Again run paper towel thru each inlet.
L. If only one inlet is clogged and cannot be fixed, relocate new pipe via existing installation method.
M. Pipes that run underground can sometimes coagulate with debris from moisture.
   i. Route out with long blunt object.
   ii. Run 10 pounds of rice thru system into unit, repeat.
   iii. Trench old lines and replace.
   iv. If lines run under concrete driveway, relocate power unit in area where accessible to locate.
N. Re-route pipes from section that does work to section that does not work. Abandon any unnecessary lines.
O. Check for "wrong way" Y's or T's.
P. Any recent construction or workers who might have driven nail into pipes (esp. closet organizers, phones, or alarms)?

#4 Bad inlet - replace inlet & plug hose in again.

A. Check to see if old inlet is same type with contact points. If not; it may have a push button that requires a latching relay.
B. When replacing inlet look to see if old one had tape on inlet neck, if so: put tape in approximate same location on new inlet. When re-installing vacuum, test for air leak. If slight hissing coming from inlet; additional tape is required on inlet neck.

#5 Low voltage wire cut.

A. Recent construction done?
B. Rats?
C. Detached garage with unit located in garage? Recent digging?
D. Re-splice broken wire (coppers together and tins together).
E. Wires disconnected at unit. (some units only.) 4 coming from unit plus at least 2 coming from house. Should be (1 back, 1 red, 1 from house) and (1 black, 1 yellow or red, 1 from house).
F. Re-route wire from any working inlet or power unit to any section of wire of the inlet that does not work. (Run under carpet, behind baseboards, stapled in corners or closets or down inside of walls. Try to tie it to existing bad wire and pull it through).

continued on page 8

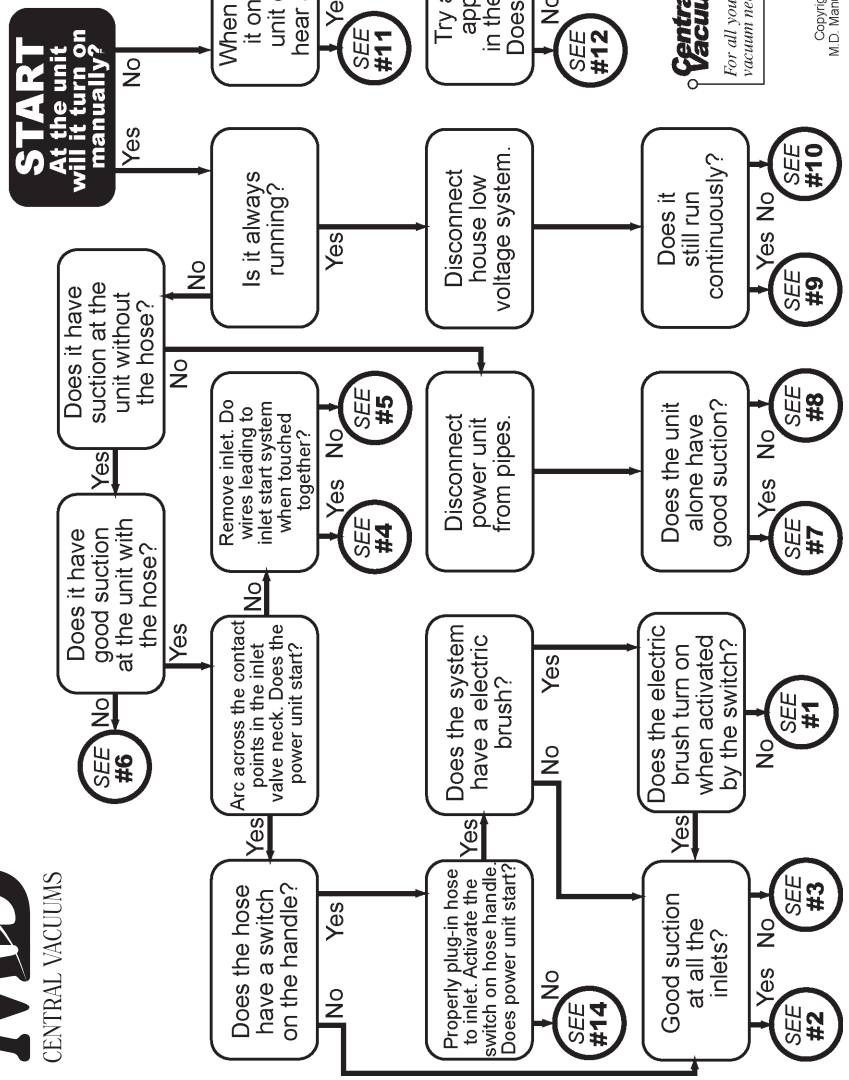
Professional Troubleshooting Guide

Solutions on following pages.

Central Vacuum Service Solutions

Also available online at **builtinvacuum.com/flowchrt.html**

MD CENTRAL VACUUMS



Congratulations,

On the purchase of your new MD Stealth Kit. This manual covers safety, operations and maintenance of your hose and tool kit. All information in this publication is based on the latest product information available at the time of printing. M.D. Manufacturing, Inc. reserves the right to make changes at any time without notice and without incurring any obligation.

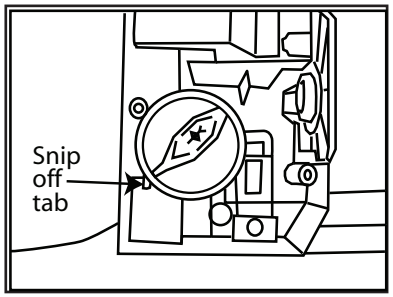
This manual should be considered a permanent part of your vacuum system and should remain with the vacuum system after purchase and installation.

If any problems should arise, or if you have any questions about your hose and tool kit, consult your local authorized M.D. Manufacturing, Inc. dealer, or call us direct at 800-997-2278, or visit our comprehensive website:

www.builtinvacuum.com
email: mdservice@builtinvacuum.com

Regarding Shag Carpets

Carpets with long “shag”, blunt-cut strands, and some super plush carpets may slow the Stealth brush down too much and even cause it to shut-off. We have some suggestions to help the Stealth operate well on most of these types of carpets. Before adjusting, please ask the carpet manufacturer if it was intended to be cleaned with a rotating electric vacuum brush. Also, please do not trim down the roller brush bristles as it will create an imbalanced brush.

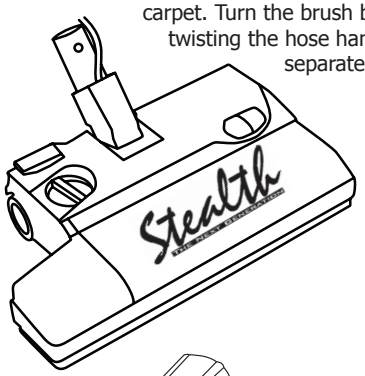


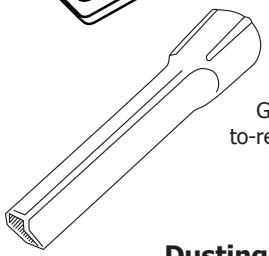
First, open the bleeder valve on the metal part of the hose handle. Second, take the top cover off the Stealth by removing five underside bolts. Trim the plastic tap on the height adjustment dial (see picture). Now it will rotate further giving the Stealth more lift. Third, while you have the cover off, you will see on the circuit board white square plastic with a screw in the middle of it. Rotate the screw 1/4 turn clockwise. That will lower the sensitivity of the Stealth to shut-off automatically. If the carpet is too thick for the Stealth consider an EdgeLift brush and wands instead.

USING YOUR STEALTH KIT

Stealth Power Brush

With the Stealth electric power beater brush and the vacuum suction on, glide the Stealth along the carpet. Turn the brush by slightly twisting the hose handle. (See separate manual.)



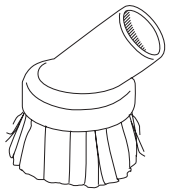


Crevice Tool

Great for narrow, hard-to-reach-places.

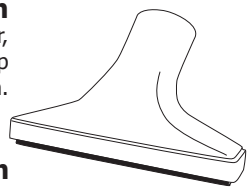
Dusting Brush

Use for baseboards, window sills, and more.



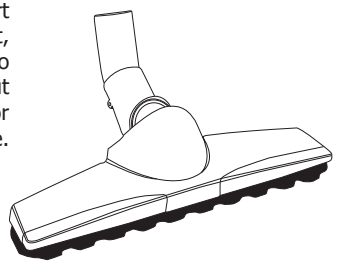
Upholstery Brush

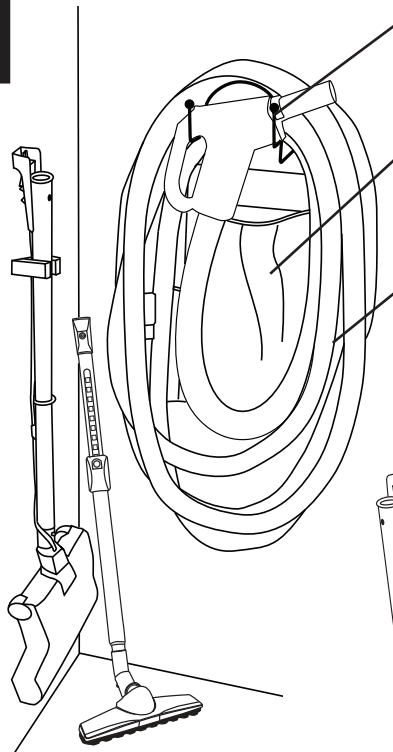
Excellent for sofa, car, drapes; attach brush strip for aggressive agitation.



Axis Floor Brush

This brush pulls in dirt and hair from the front, back, and sides. It is also non-marking and without wheels, leaving your floor vacuumed without a trace.





Installing your hose hanger

(Hardware not included.) Install your hose hanger close to your general use area. The most common place is in an entry or utility closet. Install at chest height. If a wall stud is not in a good location for one of the two mounts, use drywall mounting hardware for both mounts.

Installing your tool caddy on the hose hanger

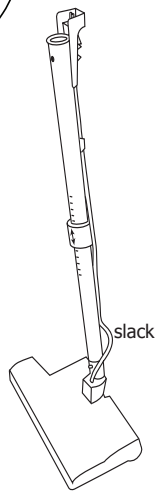
After the hose hanger is mounted, simply hang the caddy's handle over the entire hose hanger, not on the front hooks. Install your wand wall clamp on a stud at chest level **(0)** using drywall mounting anchors.

Coiling your hose

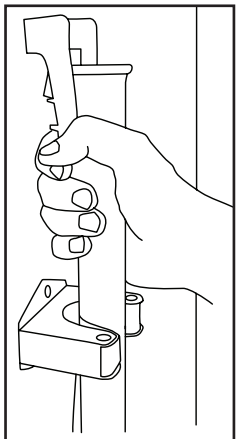
Disconnect attachments before coiling the hose. Hook the hose handle on one of the front hooks. Grabbing large sections of hose, make four or five loops.

Assembling and starting

Step 1: Stretch out the new hose and let it relax. Extend your telescopic wand by holding the plastic lever down and lifting the top section up.
Step 2: Slide the tapered end of the wand into the neck of the Stealth aligning the button lock with the button hole.
Step 3: Wrap the cord once around the wands leaving the slack in the lower section below the cord channel on the bottom wand.
Step 4 (diagram A): Insert the cord into the top channel by putting the pronged end in first. Insert the hose handle into top of wand. Push until the button lock clicks in place (the electric prongs will go into place as well).
Step 5: Insert the short metal hose end into the inlet valve. If your hose has a cord on it, plug it into the nearest electrical outlet. Depress rocker switch to left for suction only (position "I"), depress to right for suction and electric power brush (position "II"). Both are turned off at position "0".
DETACHING: To detach hose handle simply push the button lock in and pull apart.



*****TURN POWER OFF (HOSE "0" POSITION) BEFORE DISCONNECTING THE HOSE HANDLE OR THE HOSE FROM THE WALL INLET******



Wand Clamp
With the rubber straight, push the wand into locking position. To unlock, grasp wand & pull out.

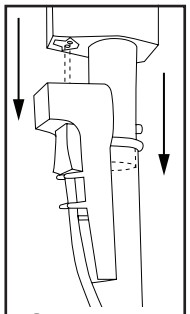
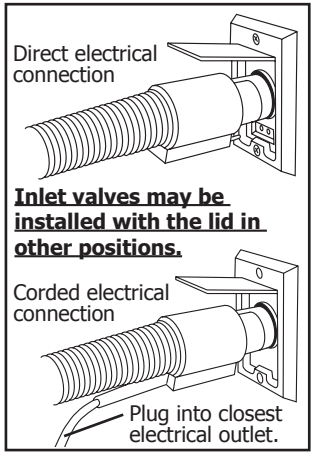
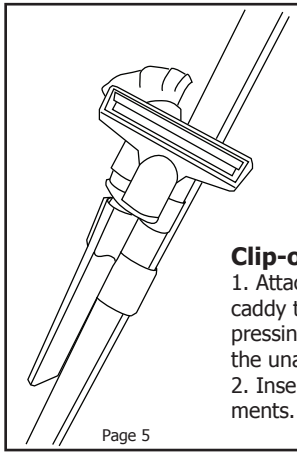


Diagram A
Insert electrical cord in track first, then insert the hose handle.





Clip-on Tool Caddy
1. Attach the clip-on tool caddy to the upper wand by pressing it on or sliding over the unattached wand.
2. Insert up to three attachments.