

MOTORVAC[®] **CarClean** **SYSTEM** *AC Ventilation & Interior Sanitizing Service*

User's guide

Professional In-Car CarClean System Includes set-up, operation, maintenance and troubleshooting information.



Warranty

MotorVac® warrants the CarClean System™ machine to be free of defects in materials and workmanship for a period of 1 Year, except the piezo ultrasonic transducer, which is warranted for 90 days. MotorVac® Technologies, at its sole discretion, will replace or repair any defective item within the Warranty period. MotorVac® Technologies must be contacted in the event of a warranty claim and MotorVac® Technologies, at its sole discretion, will decide if the item needs to be returned for inspection. If the item is to be returned for inspection, a Returned Goods Authorization Number (RGA) and shipping instructions will be provided. All returns must be clearly marked with the RGA number provided. MotorVac® Technologies products can normally be serviced "in field" and will not require return. A replacement part can be sent from the Factory for such repair. The warranty does not cover the repair or exchange resulting from misuse, modification or improper operation by allowing the machine to run dry.

Customer Service Department:

1-905-270-0555 or Toll Free: 1-800-841-8810 or email at info@motorvac.com

Important Safety Information

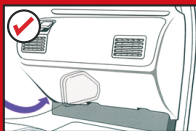
NOTE: After every service, drain out any fluid and replace rubber caps. Drain machine by tilting it forward, NEVER BACKWARDS! Certain Cabin Air Filters need to be removed during operation, see "Identify the Vehicle's Cabin Air Filter". NEVER fill machine from the exhaust vent. Only use recommended MotorVac® Ultrasonic MiST™ Cleaning Solution designed for this machine to prevent any damage or void warranty. Machine should be levelled during service. NOTE: Use the positioning level on the machine. Allow proper ventilation when operating a vehicle indoors.

Getting Started

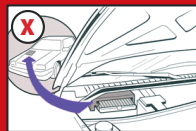
Congratulations on your purchase of this revolutionary equipment to Improve the In-Car air quality for the well-being of drivers and their passengers. Your MotorVac® CarClean System™ machine is designed so that you can set it up quickly and easily. By following the steps on the next few pages, you will have your CarClean System™ machine up and started in no time.

Identify the Vehicle's CabinAir Filter

REMOVE CABIN AIR FILTERS that are operational during recirculation mode. These filters are normally located inside the vehicle's passenger compartment. (See Vehicle's Owner Manual)



DO NOT NEED TO REMOVE CABIN AIR FILTERS located at the outside fresh air intake. These filters are normally found under the hood.



For optimum results, set cabin temperature 72°F / 22°C.

Getting to know your MotorVac® CarClean System™ machine



1. 12V DC Power Cord
2. Fill Port Dust Cover
3. Cleaning Solution Fill Port
4. Positioning Level
5. Exhaust Dust Cap
6. Start Button
7. Treatment in Progress (green LED)
8. Treatment Complete (green LED)
9. LOW Fluid Level (red LED)

Prepare Machine

Before you begin, see the important safety information on page 1. Remove cap from MotorVac® MiST™ Cleaning Solution and screw on to the fill port snugly. (Photo A). Empty total bottle contents by pushing container down then remove container and discard into regular trash.



Position Machine

Place machine on the passenger side floor close to the firewall and point exhaust vent towards the vehicle's air-intake. (Photo B)



Ensure the machine is level. Center air bubble. (Inset Photo B)
Start the vehicle. Vehicle must be running for the duration of the treatment.

Climate Control

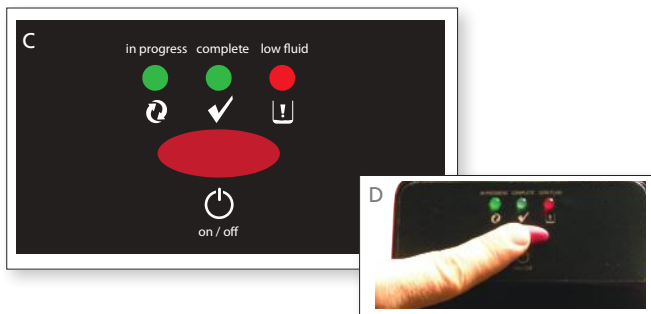
Adjust climate control to ALL of the following settings. Settings may differ between vehicle makes and models. Check owner's manual for proper climate control operations.

1. Turn ON A/C
2. Set to RECIRCULATE or MAX A/C
3. Set temperature to 72°F / 22°C
4. Set fan to HALF SPEED
5. Set air-flow to DASH VENTS ONLY

Power Machine

Ensure vehicle is running and A/C is turned "ON". Connect 12V DC connector into the vehicles 12V system. (Photo C) All indicator lights will illuminate then turn off within 2 seconds.

Press RED Start button. In-Progress indicator light will illuminate. (Photo D)

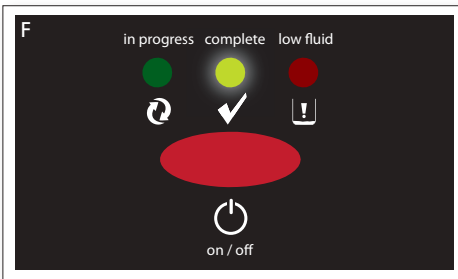


Operation

Close all windows. Exit vehicle. Close all doors. DO NOT ENTER OR OPEN DOORS during service. (Photo E)



Service time is approximately 14 minutes at 72°F / 22°C. MACHINE WILL SHUT-OFF AUTOMATICALLY and TREATMENT COMPLETE indicator will illuminate. (Photo F)



Turn off vehicle.
Leave all doors open for 5 minutes to air out the interior. (Photo G)



Finish Up

Disconnect 12V DC power connector by pulling adapter out by the handle.

DO NOT PULL BY THE CORD!

Dispose of any remaining cleaning fluid in regular drain.

Drain machine by tilting it forward, NEVER BACKWARDS. (Photo H)



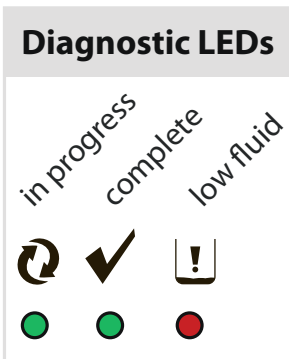
Replace dust covers and store for next use. Trace amounts of white dust may be visible on the vehicle's vents. This is normal and easily wipes off with a cloth.

Troubleshooting Guide

If you have an issue with the machine, there's usually a quick and simple solution. The MotorVac® CarClean System™ machine's built-in diagnostic LEDs will help you quickly figure out the problem and get your machine up and running.








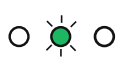
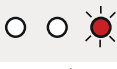


First, make sure the machine:

- is connected to a proper 12V DC power source
- is placed on a level surface
- is filled with the proper amount of fluid
- has the exhaust dust cap removed



Troubleshooting Guide Cont.

During normal operation: Immediately after the power supply is connected, the machine will illuminate all 3 LED's momentarily (internal self-test). No lights should be on after the self-test completes. Once the 'start' button is pressed, the in progress LED will illuminate. The complete LED will illuminate after a successful service.

  	What it Means	Corrective Action
	All three lights flashing: Improper voltage below 11 VDC or above 18 VDC or component failure.	Ensure that vehicle is running and A/C is turned on (if equipped). Disconnect from power & reconnect. Check vehicles charging system for proper output and clean terminals.
	Right light on solid. Low fluid or machine not level.	Drain machine completely and refill. To drain – tilt forward: fill using new (clean) container. Ensure that machine is resting on a flat-level surface. Use positioning level – bubble in the center – disconnect power cord and reconnect to reset unit.
	Center and Right light on solid. Service time was less than 8 minutes (normal cycle is approx, 14 minutes @ 72 F/22C) or Low fluid level or Machine not level.	Drain machine completely and refill. To drain - tilt machine forward; fill using new (clean) container. Disconnect from power and reconnect. Ensure that machine is resting on a flat-level surface. Use positioning level – bubble in the center – disconnect power cord and reconnect to reset unit.
	Center light flashing Service time exceeded 18 minutes (normal cycle is approximately 14 minutes @ 72F / 22C).	Sufficient cleaning solution has been used to warrant a 'full' service. Drain machine completely to prepare for next service.
	Center light flashing Ambient temperature inside vehicle is lower than 50F/10C or fluid temperature is lower than 50F/10C.	Store cleaning solution at room temperature. Adjust interior vehicle temperature (adjust climate control to increase temp to 72F/22C). Disconnect from power and reconnect.
	Right light flashing Ambient temperature inside vehicle is above 120F/50C.	Adjust interior vehicle temperature. Adjust climate control (run A/C) to lower temp to 72F/22C.
	Center and right lights flashing High current over 5 amps.	Reset machine. Disconnect from power & reconnect. Contact customer service if problem persists.
	All lights flashing Component failure or incorrect input voltage.	Reset machine. Disconnect from power and reconnect. Contact customer service if problem persists.

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Maintenance

1. The side grills may build up residue after extended use. This is normal. Wipe off using a soft brush.
2. Empty fluid after each use.

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MotorVac[®] Technologies appreciates your business. MotorVac[®] is recognized around the world as the leader of innovative products. When you need high quality service tools and equipment, ask for MotorVac[®].

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