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# MASTERCRAFT MAV-P415D Owner's Manual

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# COMPRESSED AIR-OPERATED VACUUM CLEANERS SAFETY, OPERATION & MAINTENANCE MANUAL

*This unit is intended for commercial use.*

**READ AND FOLLOW ALL  
INSTRUCTIONS, WARNINGS & CAUTIONS  
BEFORE USING THIS VACUUM.**

This vacuum will afford you many years of trouble-free operating satisfaction, provided it is given proper care. All parts have passed rigid quality control standards prior to being assembled to produce the finished product. Prior to packaging, this vacuum was again inspected for assurance of flawless assembly.

This vacuum is protectively packed to prevent damage in shipment. We recommend that upon delivery, unpack the unit and inspect it for any possible damage. Only a visual examination will reveal damage that may have occurred.

If damage is discovered, immediately notify the transportation company that delivered your vacuum. As a shipper, we are unable to

report any claim for damage. You must originate any claim within 5 days of delivery.

This manual is for your protection and information. **PLEASE READ CAREFULLY** since failure to follow precautions could result in discomfort or injury. Read this manual completely before operating this vacuum. It is important to follow instructions in this manual to prevent the possibility of injury or damage to the user and/or vacuum.

Treat this vacuum as you would any other high grade precision made product. Dropping, unreasonable bumping across thresholds and other misuses may result in a damaged unit which will not be covered by the warranty.

**PLEASE READ  
CAREFULLY  
BEFORE  
OPERATION**

**SAVE THESE INSTRUCTIONS**

# IMPORTANT SAFETY INSTRUCTIONS

1. Air supply should not exceed 150 PSI.
2. Use compressed air line rated for 200 PSI or better.
3. Water separator must be used on compressed air line.
4. **DO NOT** used to pickup flammable and/or combustible materials.
6. Air control valve must be **OFF** before connecting to compressed air line, than open valve slowly making sure not exceed the 150 PSI rated pressure.
5. When the unit is **ON**, never allow hair, fingers, or loose clothing to come near intake, suction ports or nozzle.
7. The cloth filter must be in place for dry pick-up to prevent clogging and contamination to venturi and exhaust filter. When use for liquid pick-up a wet adaptor must be used.
8. Replace damaged or worn parts immediately with genuine original equipment parts to maintain safety and to protect your limited warranty.

## CAUTION:

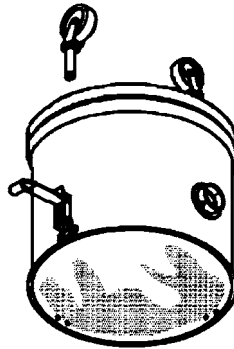


The air supply must be turned **OFF** when the vacuum action is stopped.

## VACUUM ASSEMBLY

### 4-Caster Tanks

This vacuum requires some assembly.



1] Carefully remove and set aside motor head and filter assembly

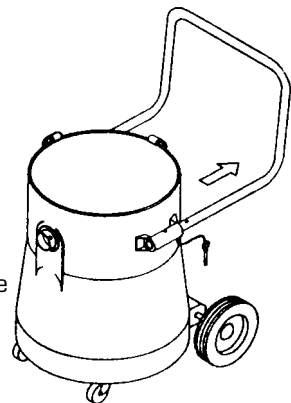
2] Turn tank upside down.

**Poly Tanks:** Press caster into plastic socket until bottom of stem fits flush against plastic socket.

**Steel Tanks:** Insert casters into caster mount assemblies.

### Glidemobile Style w/Handle

This vacuum is shipped with the handle in the storage position and it must be moved to the operating position.



1] Firmly grasp the speed pins on each side of handle and pull up and out.

2] Pulling the handle slowly away from tank, align front handle holes with the holes in the handle bracket.

3] Insert speed pins through holes on both sides, locking handle in position.

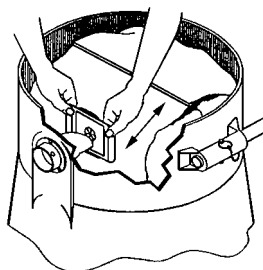
## FILTER INSTALLATION

### Cloth and Paper Bag Filter:

1] Disengage the holdown clamps.

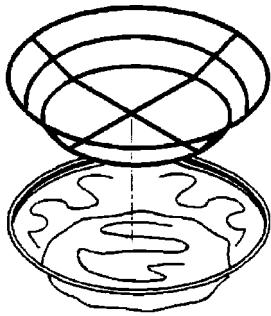
2] Remove the air head and set aside.

3] Empty filters, hose and other attachments that may be packed in the tank.



4] Expand filter bag pleats, then grasp scored ends of the cardboard and pull forward completely onto inlet tube as close to tank wall as possible.

5] Position cloth filter assembly on the tank, then place motor head on tank and close clamps.



## Dry Filter Assembly Maintenance

In order to maintain maximum efficiency of the vacuum cleaner it is important to clean the cloth filter each time the tank is emptied. To clean the cloth filter, shake off loose particles and brush exposed surface with a soft bristle brush

**NOTE: DO NOT WASH**, shrinkage to the cloth and damage to the gasket can occur.

## Paper Filter Bag Removal:

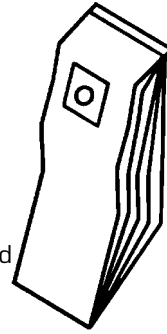
1) Remove the motor head and cloth filter assembly. Set aside.

2) Lay vacuum tank on its side with inlet tube on top.

3) Pull the bag out of tank, using care not to puncture bag with inlet tube.

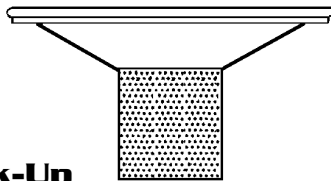
4) Reseal the cardboard flap that covered filter bag opening.

**Install a new paper filter bag.**



# DRY FILTER REMOVAL & MAINTENANCE

This air vacuum is designed for wet or dry pick-up. In order to use this vacuum for wet pickup you must order the optional wet pickup adaptor.



## Wet Pick-Up Adaptor Installation:

The safety float located in the protective frame of the wet adaptor stops the vacuum action of air head when maximum recovery of liquid is reached.

1) Disengage the hold-down clamps. Remove air head, dry filter assembly and disposable paper filter bag.

2) Set wet adaptor on tank, replace air head and snap down clamps.

## Wet Pickup Maintenance:

**DO NOT** store the vacuum with any liquid inside the tank. Before storing or converting over for dry pickup, run the emptied vacuum for approximately five minutes to eliminate moisture in the tank, hose and attachments.

## Removal of Liquid From Vacuum Tank:

### Tank Without Drains

1) Disengage the hold-down clamps on tank.

2) Remove air head and wet pickup adaptor, carefully place to one side.

3) Pour liquid from tank into suitable drain.

### Tanks w/Drain Valves

1) Center the drain valve over a drain in the floor.

2) Open drain valve by turning valve counter-clockwise and continue turning until the desired flow is reached.

3) After tank is drained, and before closing the drain valve check for any obstruction that will prevent valve from sealing. Turn the valve clockwise until it is fully closed and sealed.

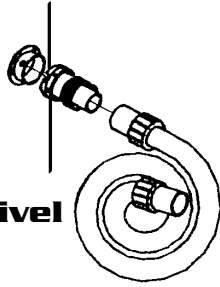
### Tanks w/Gate Valves

1) Center the tank's gate valve over a floor drain.

2) Pull up on the gate valve handle to empty the tank.

# WET OPERATION

# TOOLS & ATTACHMENT ASSEMBLY



## Hose & Swivel Connector

The hose and swivel connector are pre-assembled at the factory. To attach the swivel connector to intake fitting on vacuum tank:

- 1) Line up the slots in the swivel connector with retaining rivets on the intake.
- 2) Insert swivel connector and twist clockwise until rivets reset against slot end.

## Wand

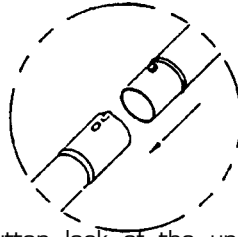
## Assembly

1) Align the button lock of the upper wand section with the opening for button lock in the lower wand section.

2) Push sections together, until the lock is accomplished.

3) To attach hose to wand, slide free end of hose onto the grooved end of upper wand.

## Tool

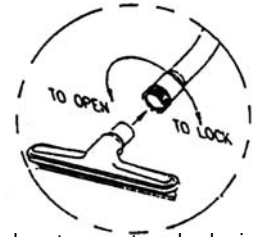


## Assembly

1) Turn the wand nut counterclockwise approximately four (4) complete turns.

2) Insert the tool into wand and coupling.

3) While holding the tool in place, turn nut clockwise until wand nut is fully locked.



# TROUBLE SHOOTING GUIDE



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### FAX:

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(845) 565-9392

### URL:

[www.mastercraftusa.com](http://www.mastercraftusa.com)

### E-Mail:

[techsupport@mastercraftusa.com](mailto:techsupport@mastercraftusa.com)

## **PROBLEM: *Loss of vacuum.***

### CAUSE:

1. Full paper filter bag.
2. Dry filter assembly clogged.
3. Clogged hose, wand, or air supply.
4. Tank rim damaged.
5. Air supply stops.
6. Loss of air supply.
  
7. Gasket worn.
8. Float not functioning.

### SOLUTION:

1. Replace the paper filter bag.
2. Clean the cloth filter.
3. Remove obstruction.
4. Replace the tank.
5. Check for a blockage and remove.
6. Check to see if there is a minimum operating pressure of 90 PSI.
7. Replace the gasket.
8. Check to see if the ball on the rod moves freely or tank is fill.

## **PROBLEM: *Dust blowing from vacuum when running.***

### CAUSE:

1. Full paper filter bag.
2. Paper filter bag not installed properly or off the inlet tube.
3. Cloth filter is dirty.
4. Cloth filter or paper filter bag is torn.
5. Paper filter bag is not installed.

### SOLUTION:

1. Replace the paper filter bag.
2. Reinstall or replace the paper filter bag properly.
3. Clean cloth filter.
4. Replace damaged filter.
5. Install paper filter bag.

## **PROBLEM: *Water blowing from vacuum when running.***

### CAUSE:

1. Tank is full of liquid.
2. Foamy liquid is being picked up.

### SOLUTION:

1. Empty the tank.
2. Add defoamer to the tank.