



8 GALLON TOOL TRIGGERED WET/DRY VACUUM



FILTRATION SYSTEM
HEPA
VARIABLE SPEED

MODEL: KC-8590TTV

INSTRUCTION MANUAL

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WARRANTY INFORMATION



**2-YEAR
LIMITED WARRANTY
FOR THIS TOOL TRIGGERED WET/DRY VACUUM**

**KING CANADA TOOLS
OFFERS A 2-YEAR LIMITED WARRANTY
INTENDED FOR NON COMMERCIAL USE**

PROOF OF PURCHASE

Please keep your dated proof of purchase for warranty and servicing purposes.

REPLACEMENT PARTS

Replacement parts for this product are available at our authorized King Canada service centres across Canada. Please use the 10 digit part numbers listed in this manual for all part orders where applicable.

LIMITED TOOL WARRANTY

King Canada makes every effort to ensure that this product meets high quality and durability standards. King Canada warrants to the original retail consumer a 2-year limited warranty as of the date the product was purchased at retail and that each product is free from defects in materials. Warranty does not apply to defects due directly or indirectly to misuse, abuse, normal wear and tear, negligence or accidents, repairs done by an unauthorized service centre, alterations and lack of maintenance. King Canada shall in no event be liable for death, injuries to persons or property or for incidental, special or consequential damages arising from the use of our products.

To take advantage of this limited warranty, return the product at your expense together with your dated proof of purchase to an authorized King Canada service centre. Contact your retailer or visit our web site at www.kingcanada.com for an updated listing of our authorized service centres. In cooperation with our authorized service centre, King Canada will either repair or replace the product if any part or parts covered under this warranty which examination proves to be defective in workmanship or material during the warranty period.

NOTE TO USER

This instruction manual is meant to serve as a guide only. Specifications and references are subject to change without prior notice.

KING CANADA INC. DORVAL, QUÉBEC, CANADA H9P 2Y4

www.kingcanada.com



GENERAL & SPECIFIC SAFETY RULES

1. KNOW YOUR TOOL

Read and understand the owners manual and labels affixed to the tool. Learn its application and limitations as well as its specific potential hazards.

2. GROUND THE TOOL.

This tool is equipped with an approved 3-conductor cord and a 3-prong grounding type plug to fit the proper grounding type receptacle. The green conductor in the cord is the grounding wire. **NEVER** connect the green wire to a live terminal.

3. KEEP GUARDS IN PLACE.

Keep in good working order, properly adjusted and aligned.

4. REMOVE ADJUSTING KEYS AND WRENCHES.

Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.

5. KEEP WORK AREA CLEAN.

Cluttered areas and benches invite accidents. Make sure the floor is clean and not slippery.

6. AVOID DANGEROUS ENVIRONMENT.

Don't use power tools in damp or wet locations or expose them to rain. Keep work area well lit and provide adequate surrounding work space.

7. KEEP CHILDREN AWAY.

All visitors should be kept a safe distance from work area.

8. MAKE WORKSHOP CHILD-PROOF.

-with padlocks, master switches or by removing starter keys.

9. USE PROPER SPEED.

A tool will do a better and safer job when operated at the proper speed.

10. USE RIGHT TOOL.

Don't force the tool or the attachment to do a job for which it was not designed.

11. WEAR PROPER APPAREL.

Do not wear loose clothing, gloves, neckties or jewelry (rings, watch) because they could get caught in moving parts. Non-slip

footwear is recommended. Wear protective hair covering to contain long hair. Roll up long sleeves above the elbows.

12. ALWAYS WEAR SAFETY GLASSES.

Always wear safety glasses (ANSI Z87.1). Everyday eye-glasses only have impact resistant lenses, they are **NOT** safety glasses. Also use a face or dust mask if cutting operation is dusty.

13. DON'T OVERREACH.

Keep proper footing and balance at all times.

14. MAINTAIN TOOL WITH CARE.

Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

15. DISCONNECT TOOLS.

Before servicing, when changing accessories or attachments.

16. AVOID ACCIDENTAL STARTING.

Make sure the switch is in the "OFF" position before plugging in.

17. USE RECOMMENDED ACCESSORIES.

Consult the manual for recommended accessories. Follow the instructions that accompany the accessories. The use of improper accessories may cause hazards.

18. NEVER STAND ON TOOL.

Serious injury could occur if the tool tips over. Do not store materials such that it is necessary to stand on the tool to reach them.

19. CHECK DAMAGED PARTS.

Before further use of the tool, a guard or other parts that are damaged should be carefully checked to ensure that they will operate properly and perform their intended function. Check for alignment of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other parts that are damaged should be properly repaired or replaced.

20. NEVER LEAVE MACHINE RUNNING UNATTENDED.

Turn power "OFF". Don't leave any tool running until it comes to a complete stop.

SPECIFIC SAFETY RULES FOR TOOL TRIGGERED WET/DRY VACUUM

Safety is a combination of common sense, staying alert and knowing how your vacuum works. Read and understand the following safety rules before operating.

1. For your own safety, read the entire instruction manual before operating this vacuum.
2. Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. Where appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments. The safety glasses must be capable of protecting against flying particles generated by the various operations.
3. Operate the vacuum cleaner only using grounded outlets that are according to regulations.
4. Only use undamaged power cords and regularly check condition of extension cords.
5. When wet vacuuming, operate the vacuum cleaner only when the container is level, otherwise there is danger of electric shock from

water penetrating into the vacuum cleaner's motor.

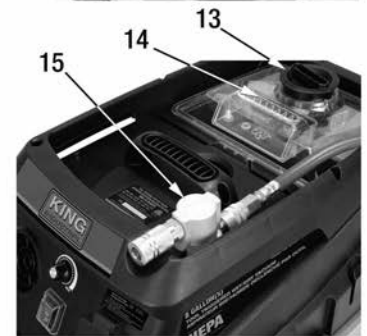
6. Do NOT expose to rain, this vacuum must be stored indoors.
7. Do not handle the electrical plug or vacuum with wet hands.
8. Never use this vacuum with any opening blocked, keep opening free of dust, hair, lint or anything that will restrict air flow.
9. Never vacuum anything that is on fire, burning or smoking such as matches, cigarettes or hot ashes. Never vacuum flammable or combustible liquids such as gasoline, electrical devices could produce sparks which can cause a fire or explosion! Never vacuum toxic or hazardous materials.
10. Never use this vacuum without dust bag and/or filters installed.
11. Never vacuum coal ash, cement or drywall dust without the HEPA filter and dust bag installed and water is placed in the reservoir (3 stage filtration) or you could damage the motor or the material could be exhausted back into the air. The replacement HEPA and High Efficiency filters and accessories are available and are listed in the parts list.

GETTING TO KNOW YOUR 8 GALLON TOOL TRIGGERED WET/DRY VACUUM



Getting to know your Tool Triggered Vacuum

- 1) Caster wheels (2)
- 2) Wet vacuuming hose inlet
- 3) Flexible hose (6 ft. x 1-1/4")
- 4) Extendable wand
- 5) Power cord wrap posts
- 6) Pivot handle
- 7) 8 Gallon tank
- 8) 10" Floor sweep
- 9) Variable speed dial
- 10) Air outlet/Blower
- 11) On/Off switch
- 12) 120V Power tool synchro plug
- 13) Inlet cover
- 14) Clear inlet cover
- 15) 1/4" NPT air tool synchro air inlet/outlet
- 16) Dry vacuuming 3 stage filtration hose inlet



MODEL	KC-8590TTV
Peak HP	6
Tank Capacity	8 Gallon (30L)
Air Suction Capacity with 6ft Hose	53 CFM
Air Suction Capacity at Air Outlet/Blower	111 CFM
Vacuum Pressure (inches of water)	68.3"
Power Cord Length	12 ft.
Peak Air Watts	426
Noise level	78 dB
Motor	10 Amp.
Voltage	110V, 1 phase, 60 Hz
Assembled dimensions (LxWxH)/weight	23" x 13-1/2" x 35" / 29.5 lbs
Package dimensions (LxWxH)/weight	23-3/4" x 15" x 23" / 35 lbs



ELECTRICAL INFORMATION

WARNING!

ALL ELECTRICAL CONNECTIONS MUST BE DONE BY A QUALIFIED ELECTRICIAN. FAILURE TO COMPLY MAY RESULT IN SERIOUS INJURY! ALL ADJUSTMENTS OR REPAIRS MUST BE DONE WITH THE MACHINE DISCONNECTED FROM THE POWER SOURCE. FAILURE TO COMPLY MAY RESULT IN SERIOUS INJURY!

POWER SUPPLY

WARNING: YOUR TOOL TRIGGERED WET/DRY VACUUM MUST BE CONNECTED TO A 110V-120V, 15-AMP CIRCUIT BREAKER. FAILURE TO CONNECT IN THIS WAY CAN RESULT IN INJURY FROM SHOCK OR FIRE.

GROUNDING

This Tool Triggered Wet/Dry Vacuum must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current, to reduce the risk of electric shock. This Tool Triggered Wet/Dry Vacuum is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Your Tool Triggered Wet/Dry Vacuum must be properly grounded. Not all outlets are properly grounded. If you are not sure if your outlet is properly grounded, have it checked by a qualified electrician.

WARNING: TO MAINTAIN PROPER GROUNDING OF YOUR TOOL TRIGGERED WET/DRY VACUUM, DO NOT REMOVE OR ALTER THE GROUNDING PRONG IN ANY MANNER.

WARNING: IF NOT PROPERLY GROUNDING, THIS TOOL TRIGGERED WET/DRY VACUUM CAN CAUSE ELECTRICAL SHOCK, PARTICULARLY WHEN USED IN DAMP LOCATIONS. TO AVOID SHOCK OR FIRE, IF THE POWER CORD IS WORN OR DAMAGED IN ANY WAY, HAVE IT REPLACED IMMEDIATELY.

110V-120V OPERATION

As received from the factory, your Tool Triggered Wet/Dry Vacuum is ready to run for 110V-120V operation. This Tool Triggered Wet/Dry Vacuum is intended for use on a circuit that has an outlet and a plug which looks like the one illustrated in Fig.1.

WARNING: DO NOT USE A TWO-PRONG ADAPTOR FOR THEY ARE NOT IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES. NEVER USE IN CANADA.

EXTENSION CORDS

The use of any extension cord will cause some loss of power. Use the chart in Fig.2 to determine the minimum wire size (A.W.G-American Wire Gauge) extension cord. Use only 3-wire extension cords which have 3-prong grounding type plugs and 3-hole receptacles which accept the tool's plug.

For circuits that are further away from the electrical circuit box, the wire size must be increased proportionately in order to deliver ample voltage to the Tool Triggered Wet/Dry Vacuum motor. Refer to Fig.2 for wire length and size.

120V TOOL TRIGGERED FUNCTION

The 120V power tool synchro plug (A) Fig.3 function allows the connected power tool to turn on vacuum when power tool is activated.

WARNING! The maximum permissible power tool amperage is 5A.

PROPERLY GROUNDING OUTLET

CURRENT CARRYING PRONGS

GROUNDING PRONG

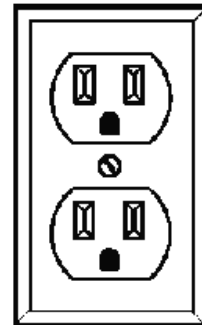


FIGURE 1

Tool's Amperage Rating	Cord Size in A.W.G.			
	Cord Length in Feet			
	25	50	100	150
3-6	18	16	16	14
6-8	18	16	14	12
8-10	18	16	14	12
10-12	18	16	14	12
12-16	14	12	-	-

FIGURE 2



FIGURE 3

ASSEMBLY



WARNING! TO REDUCE THE POTENTIAL FOR PERSONAL INJURY AND/OR DAMAGE TO THE MACHINE, BEFORE ASSEMBLING MAKE SURE THE MACHINE IS TURNED OFF AND THE PLUG IS NOT CONNECTED TO A POWER SOURCE. DO NOT TURN ON OR PLUG IN THE MACHINE UNTIL INSTRUCTED TO DO SO AFTER ALL ASSEMBLY STEPS IN THIS MANUAL HAVE BEEN COMPLETED.

Assembly

INSTALLING THE CORRECT FILTER AND/OR DUST BAG FOR THE APPLICATION

Before every operation, it is important to determine the desired cleaning application, **WET or 3 STAGE DRY filtration vacuuming**. Each cleaning application requires different accessories to be installed, and the hose needs to be connected to the appropriate inlet (**front inlet = Wet / Top inlet = 3 Stage Dry Filtration**).

WHEN VACUUMING DRY MATERIALS (3 STAGE DRY FILTRATION)

To ensure proper filtration of fine or drywall dust, set up the vacuum for 3 stage dry filtration as described below.

STAGE 1- Dust bag

1. The cloth dust bag (A) Fig.4 must be installed to the clear cover (B) on the top of the vacuum as shown. If the dust bag is not installed, push clear cover latch (C) Fig.4 and remove clear cover.
2. Install the dust bag (A) Fig.5 to the clear cover (B), place sections A together, lock dust bag using the spring latch (C). Reinstall clear cover.

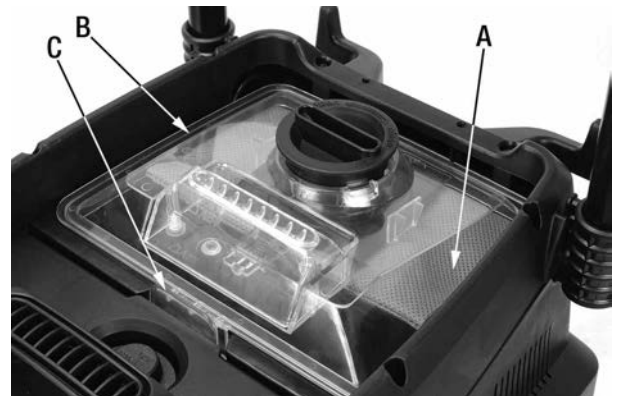


FIGURE 4

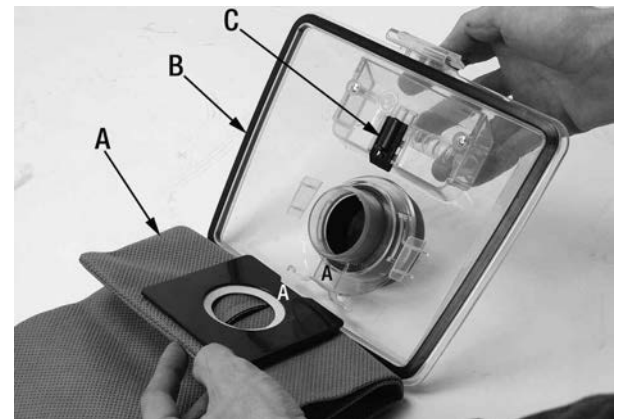


FIGURE 5



FIGURE 6

STAGE 2- Water filtration

3. Unlatch the cover/motor assembly latches (A) Fig.6 on both sides of the tank. Lift and place the cover/motor assembly on its side.
4. Fill the tank (A) Fig.7 with water, do not fill it past the maximum "Water level" marking (B) as shown.

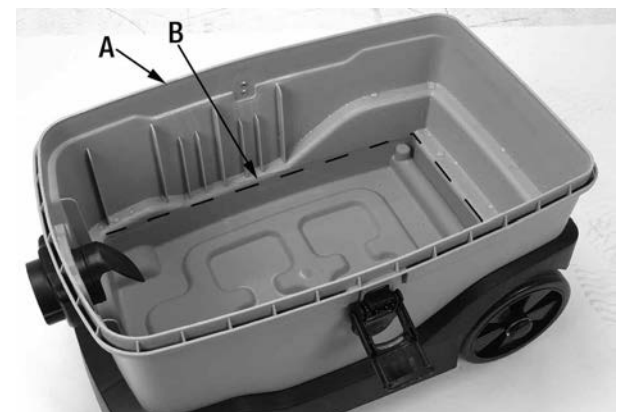


FIGURE 7



ASSEMBLY

WHEN VACUUMING DRY MATERIALS (3 STAGE DRY FILTRATION) continued...

STAGE 3- HEPA Filter or High Efficiency Filter

- For **dry vacuuming of drywall or cement dust**, make sure the HEPA filter (A) Fig.8 is installed as shown. The HEPA filter material is green. If the incorrect filter is installed, simply pull it out and slide the HEPA filter into place until it is secured to the housing as shown.

For normal dust vacuuming, install the High Efficiency filter instead. The High Efficiency filter material is a light red.

- Reposition and secure the cover/motor assembly to the tank with both cover latches.
- For all 3 stage dry filtration operations, the flexible hose (A) Fig.9 **MUST** be installed to the top inlet (B) located on top of the clear cover (C). Remove inlet cover (D) and reinstall it in the front inlet. Insert the flexible hose (A) into the top inlet (B) and turn it clockwise until it locks.

The vacuum is now ready for 3 STAGE DRY FILTRATION.

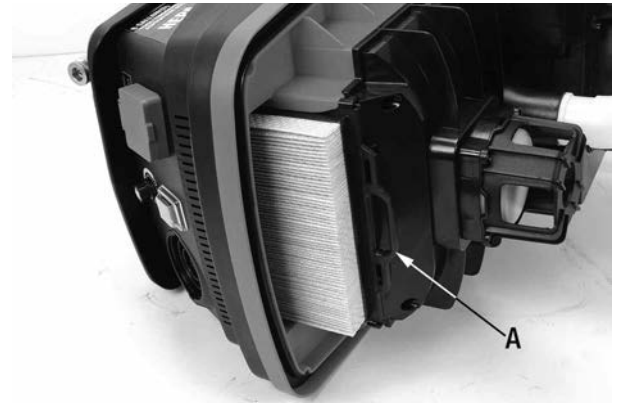


FIGURE 8

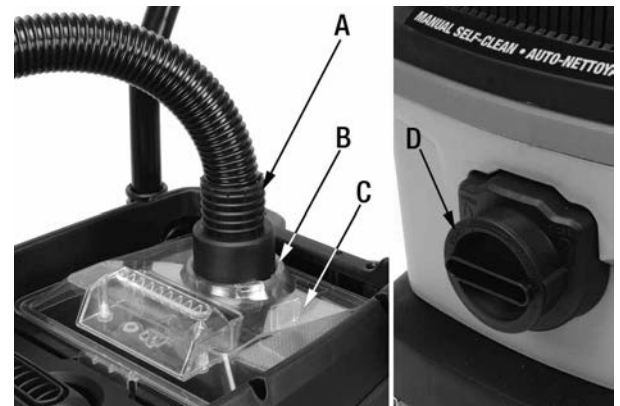


FIGURE 9

WHEN VACUUMING WET MATERIALS (FOAM FILTER)

- For **vacuuming wet materials**, and to ensure proper filtration, the black foam filter (A) Fig.10 must be installed. Unlatch the cover/motor assembly latches (A) Fig.6 on both sides of the tank. Lift and place the cover/motor assembly on its side, slide the foam filter (A) Fig.10 into the housing as shown.
- Reposition and secure the cover/motor assembly to the tank with both cover latches.

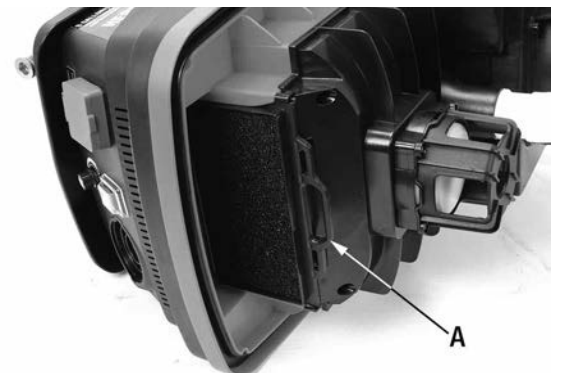


FIGURE 10

- For all wet filtration operations, the flexible hose (A) Fig.11 **MUST** be installed to the front inlet (B) located on the front of the vacuum. Remove inlet cover (C) and reinstall it in the top inlet. Insert the flexible hose (A) into the front inlet (B) and turn it clockwise until it locks.

Note: Before vacuuming wet materials, make sure there is no water inside the tank. When finished vacuuming wet materials, empty and clean tank.



FIGURE 11

ASSEMBLY & OPERATION



HOSE, WAND AND ACCESSORY ASSEMBLY

Note: At this point, the flexible hose has already been installed into the appropriate inlet (front for Wet materials, or top for 3 Stage Dry Filtration) and the inlet cover has been installed in the inlet which is not being used.

1. Slide the end of the hose (A) Fig.12 into the extension wand (B) as shown.
2. Attach either the floor sweep (C) Fig.12, crevice tool or brush tool to the other end of the extension wand (B).
3. The extension wand does not need to be used, the floor sweep, crevice tool or brush tool can also be installed to the end of the flexible hose.

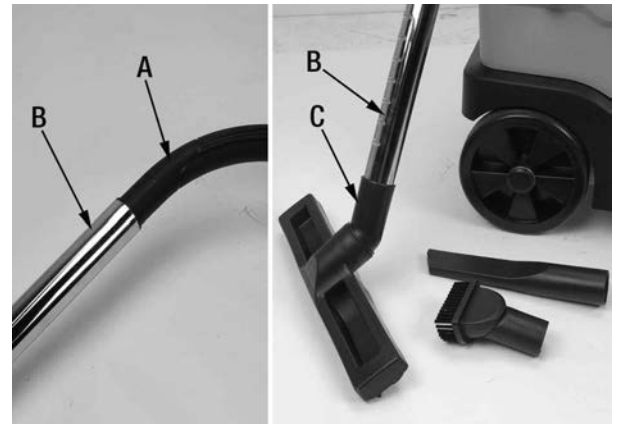


FIGURE 12

OPERATION

TURNING THE VACUUM ON/OFF/TOOL TRIGGERED MODE

1. This Tool Triggered Vacuum comes with an On/Off/Tool Triggered dust-proof toggle switch (A) Fig.13. To turn the vacuum On, press the toggle switch upwards. To turn the vacuum Off, press the toggle switch to the middle position. To activate the tool triggered feature, press the toggle switch downwards.

VARIABLE SPEED ADJUSTMENT

1. This Tool Triggered Vacuum comes with a variable speed dial (B) Fig.13 which controls the speed of the motor, which in turn increases or decreases the suction capacity of the vacuum.
2. Turn variable speed dial clockwise to increase suction capacity, or turn counterclockwise to decrease suction capacity.



FIGURE 13

TOOL TRIGGERED FUNCTION- 120V POWER TOOL & AIR TOOL SYNCHRO

Note: This Tool Triggered Vacuum comes with two methods of automatically turning on the vacuum when a tool is activated. The following instructions describe the 120V Power Tool Triggered Synchro function and the Air Tool Triggered Synchro function.

120V POWER TOOL TRIGGERED SYNCHRO- 3 STAGE DRY FILTRATION

This function can only be used for 3 Stage Dry Filtration. To use the 120V Power Tool Triggered Synchro function:

1. Set-up the vacuum for 3 Stage Dry Filtration as described in the section “**WHEN VACUUMING DRY MATERIALS (3 STAGE DRY FILTRATION)**” Figures 4-9.
2. Select the power tool to use, then using the supplied hose or other fittings necessary to connecting the dust collection port of the power tool to the flexible hose of the vacuum.



FIGURE 14

WARNING! The maximum permissible power tool amperage is 5A. The available amperage rating is determined by the speed of the motor. The maximum amperage rating will be less than 5A if operated at full speed. If the power tool trips the circuit, reduce the speed of the motor using the variable speed dial and try again.

3. Connect the power tool power cord (A) Fig.14 into the 120V socket (B) as shown.
4. Press the toggle switch (A) Fig.13 downwards to the Tool Triggered position. The vacuum will not turn on, the vacuum goes into standby mode until the power tool is activated.
5. Turn power tool On, the vacuum will automatically start. Turn the power tool Off, the vacuum will automatically stop after a few seconds to clear the debris from the hose.



OPERATION

TOOL TRIGGERED FUNCTION- 120V POWER TOOL & AIR TOOL SYNCHRO

AIR TOOL TRIGGERED SYNCHRO- 3 STAGE DRY FILTRATION

This function can only be used for 3 Stage Dry Filtration. To use the Air Tool Triggered Synchro function:

1. Set-up the vacuum for 3 Stage Dry Filtration as described in the section **"WHEN VACUUMING DRY MATERIALS (3 STAGE DRY FILTRATION)"** Figures 4-9.
2. Select the air tool to use, then using the supplied hose or other fittings necessary to connecting the dust collection port of the air tool to the flexible hose of the vacuum.
3. Connect an air hose to your air compressor, connect the other end of the air hose (A) Fig.15 as shown. The air hose must have a quick connect fitting, connect the quick connect fitting to the 1/4" NPT air inlet as shown.
4. Connect another air hose to your air tool, connect the other end of the air hose (B) Fig.15 as shown. The air hose must have a 1/4" NPT air inlet, connect this fitting to the quick connect fitting (C) as shown.
5. Press the toggle switch (A) Fig.13 downwards to the Tool Triggered position. The vacuum will not turn on, the vacuum goes into standby mode until the air tool is activated.
6. Activate the air tool, the vacuum will automatically start. Deactivate the air tool, the vacuum will automatically stop after a few seconds to clear the debris from the hose.

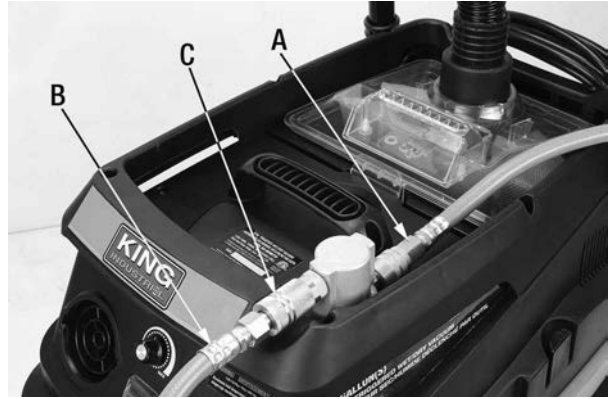


FIGURE 15



FIGURE 16

AIR BLOWER & MANUAL SELF-CLEAN (REVERSE AIR) FUNCTION

This Tool Triggered Vacuum can be used as a blower. To use the blower function:

1. This vacuum comes with a air outlet (A) Fig.16 which can be used as a blower. Simply insert the flexible hose (B) into the air outlet and turn it clockwise until it locks. The hose can now be used as a blower.

This Tool Triggered Vacuum also comes with a convenient reverse air manual self-clean feature which cleans the installed filter. After a period of time, the filter may become very dirty and the suction capacity may be reduced, using the manual self-clean feature will clean the filter and improve the suction capacity. To use the manual self-clean function:

1. With the flexible hose installed in the front inlet or the top inlet, and the vacuum turned on, position the end on the hose (A) Fig.17 onto the depress button (B). Press down and release, repeat step 3-5 times.

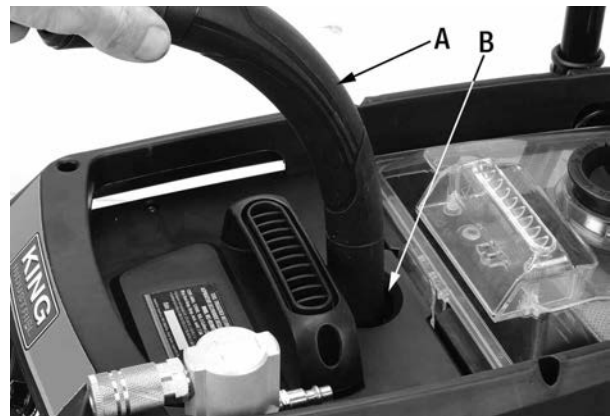


FIGURE 17

WATER LEVEL SELF-STOP (WHEN VACUUMING WET MATERIALS)

This Tool Triggered Vacuum comes with a convenient water level self-stop feature. When vacuuming wet materials, once the tank water level reaches the maximum permissible amount the vacuum will automatically stop.

When this happens, the tank must be emptied of its dirty water. Turn the vacuum Off, empty tank and restart.

MAINTENANCE



WARNING! TO REDUCE THE POTENTIAL FOR PERSONAL INJURY MAKE SURE THE VACUUM IS TURNED OFF AND HAS BEEN UNPLUGGED BEFORE PERFORMING ANY PERIODIC MAINTENANCE OPERATIONS.

Regular Maintenance

To ensure optimum performance and longer service life of your tool triggered wet/dry vacuum, the following basic maintenance steps should be practiced regularly:

1. Inspect the power cord and plug for damage before each use. Never operate the tool triggered wet/dry vacuum with a damaged power cord or plug. To reduce the risk of electric shock, unexpected start-up, and/or damage to the motor, replace a damaged power cord or plug immediately.
2. Test the ON/OFF switch before each use. Never operate the tool triggered wet/dry vacuum with a damaged/malfunctioning switch. To reduce the risk of electric shock, unexpected start-up, and/or damage to the motor, replace a damaged/malfunctioning switch immediately.

CLEANING

Cleaning filters

1. The HEPA and High Efficiency filters can be cleaned by passing compressed air through the filter. Eventually no amount of cleaning will help and the filter will need to be replaced.

Cleaning cloth dust bag

1. When the dust bag (A) Fig.18 gets close to being full it should be emptied and cleaned.
2. Slide and remove the plastic retainer (B) Fig.18 from the dust bag and empty contents of dust bag.
3. Once empty the dust bag can be cleaned with warm water, it is recommended to turn dust bag inside out during the cleaning process. Let dust bag dry before installing.
4. Reinstall the plastic retainer at the bottom of the dust bag, reinstall dust bag.

Cleaning tank

1. It is important to keep the inside of the tank clean between Wet vacuuming and Dry vacuuming operations. To empty tank, simply remove top cover/motor assembly and tilt tank to empty water. Clean tank thoroughly.

Cleaning water connector pipe

1. During 3 Stage Dry Filtration, the white connector pipe (A) Fig.19 gets dirty and will need periodic cleaning.
2. Unlatch the cover/motor assembly latches on both sides of the tank. Lift and place the cover/motor assembly on its side.
3. Slide the connector pipe (A) off the housing and clean with clean water. Reinstall connector pipe once cleaned.

STORAGE

Before storing vacuum:

Make sure the vacuum has been completely cleaned. Wrap the power cord (A) Fig.20 around the power cord posts and lower handle as shown. Vacuum is ready for storage.

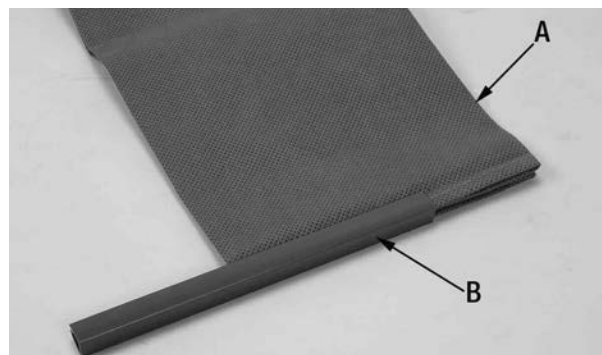


FIGURE 18



FIGURE 19



FIGURE 20