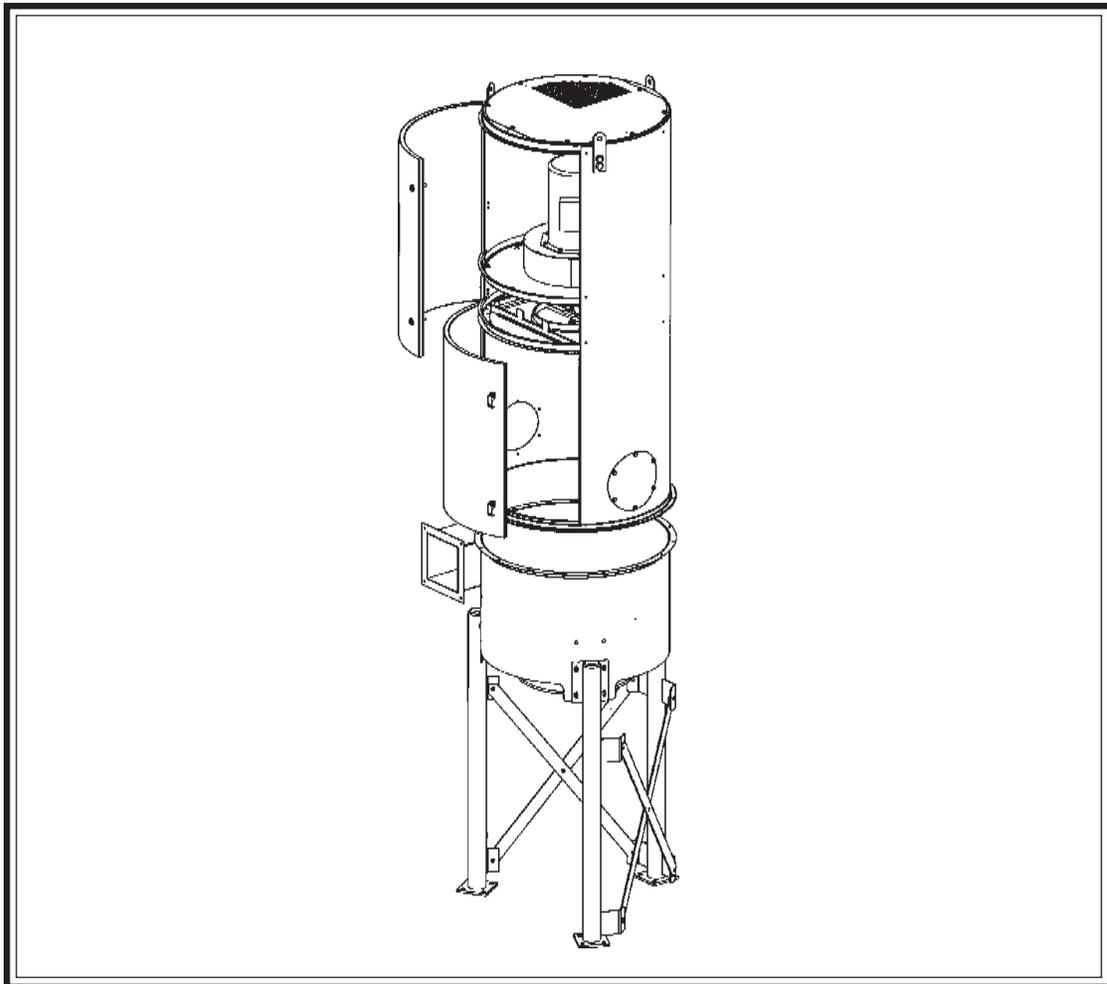


Torit® Installation and Operation Manuals

Torit Filter Cartridge System Dust Collectors
Models RVS-5, RVS-10, RVS-15
With or Without Hopper
Includes Installation, Operation, and Service Instructions



IMPORTANT

This manual contains specific precautionary statements relative to worker safety in appropriate sections. Read this manual thoroughly and comply as directed. It is impossible to list all of the potential hazards of dust control equipment. It is imperative that use of the equipment be discussed with a Torit representative. Personnel involved with the equipment or systems should be instructed to conduct themselves in a safe manner.

NOTE

Statements indicate precautions necessary to avoid potential equipment failure.

CAUTION

Statements indicate potential safety hazards.

CAUTION

APPLICATION OF DUST CONTROL EQUIPMENT:

- Special care must be exercised in the use of dust collection equipment when combustible equipment, such as buffing lint paper, wood dust, aluminum, and magnesium are present. These materials may present a fire or explosion hazard. A prudent user of Torit equipment should consult and must comply with all National and Local Fire Codes and/or other appropriate codes when determining the location and operation of dust collection equipment.
- Under no conditions should anyone, including the machine operator, be allowed to put burning objects or lit cigarettes into the hood or ducting of any dust control system.
- Avoid mixing combustible materials with dust generated from grinding of ferrous metals due to the potential fire hazard caused by sparks being pulled into the dust collection equipment.
- When collection equipment is used to collect flammable or explosive dusts, the dust collection equipment should be located outside the building. Also, an installer of fire extinguishing equipment, familiar with this type of fire hazard and local fire codes, should be consulted for recommendations and installation of the proper fire extinguishing equipment. Torit® equipment does NOT contain fire extinguishing equipment.
- Explosion relief vents are required on some applications. Consult with an insurance underwriter or a NFPA Manual to determine proper vent sizing requirements. Vents installed on dust collection equipment within a building must relieve to the outside of the building to minimize chances of a secondary explosion. Consult the proper authority to determine proper method of venting the dust collection equipment. Torit equipment does NOT contain explosion relief vents, except on special order.
- To insure optimum collector performance, always use Torit-Built® replacement filters.

TORIT PRODUCTS is the leading designer and manufacturer of dust collector systems for the control of industrial air pollution. Its systems are designed to help reduce occupational hazards, lengthen machine life, reduce in-plant maintenance requirements, and improve product quality.

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*Magnehelic is a registered trademark of Dwyer Instruments, Inc.

Data Sheet

Customer Name _____	
Address _____	
Shipping Date _____	Installation Date _____
Model Number _____	Serial Number _____
Filter Medium _____	
Accessories _____	
Other _____	

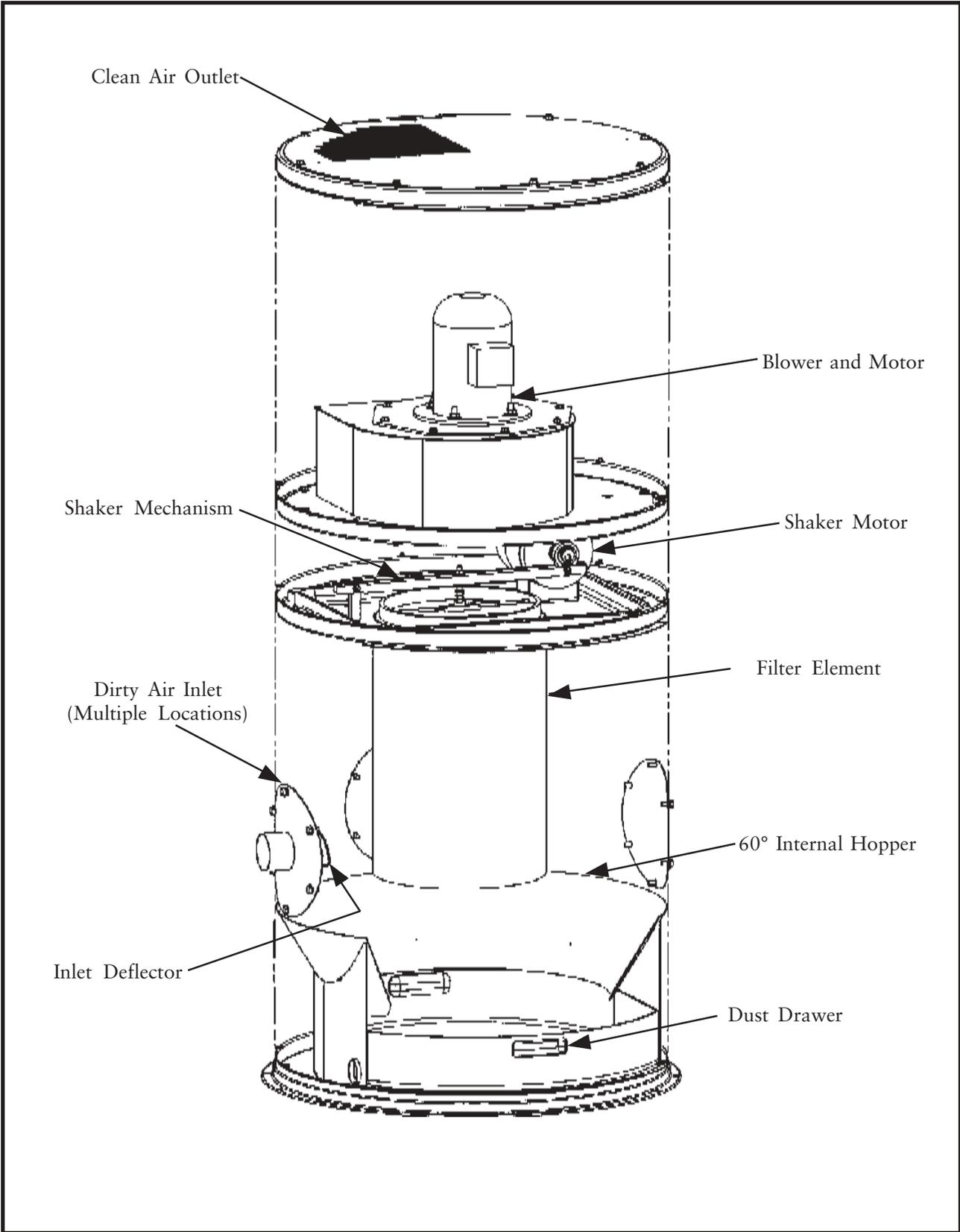


Figure 1
Phantom View of Typical RVS Dust Collector

1.0 INTRODUCTION

The Torit RVS dust collectors provide high efficiency, intermittent duty air cleaning by means of an exclusive Torit filter cartridge. The filter element is cleaned automatically each time the unit is shut off unless an optional delta switch system is included. With the optional delta pressure switch, the filter is cleaned only after the airflow across the filter reaches 3" pressure drop.

1.1 Operational Explanation (See Figure 2)

1.1.1 Normal Operation

Dust enters through the cabinet inlet and is deflected downward by the inlet deflector. It then passes through a tight mesh screen on the outside of the filter. The screen, spaced 1-inch away from the filter media, catches fibrous dust, while fine particles pass through the screen and collect on the outside surfaces of the pleated filter cartridge. Clean air flows up through the center of the filter cartridge into the blower, through the silencer

section of the cabinet, and exits through the top clean air outlet.

1.1.2 Filter Cleaning

RVS collectors are intermittent duty. **Cleaning is done only after the fan is shut off and an appropriate fan run-down time is completed.**

Filter cartridge cleaning is accomplished by high frequency vibration.

NOTE

Power to collector controls must remain on to operate cleaning mechanism.

NOTE

Optional delta switch systems will follow the cleaning sequence only if the filter restriction is greater than the pressure switch set point of 3" pressure drop (see Figure 13).

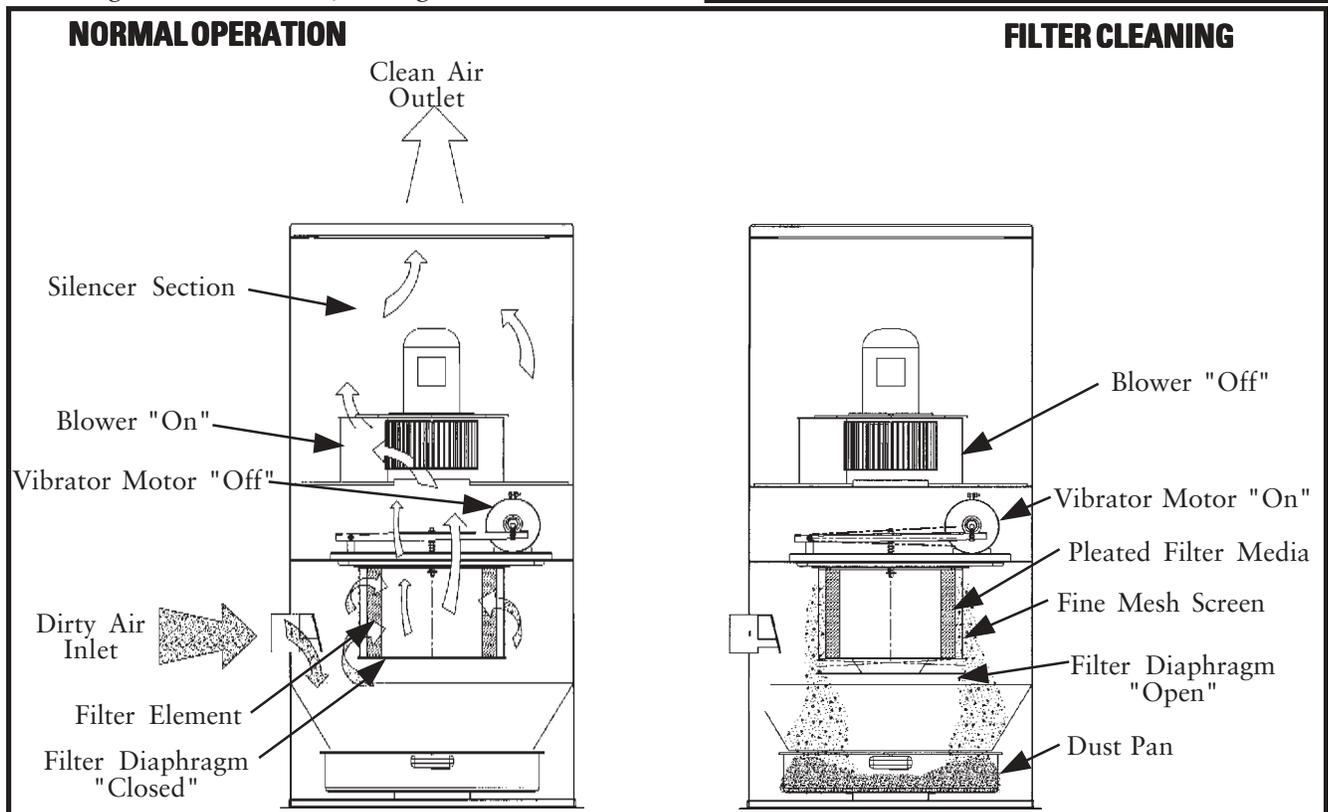


Figure 2
Operational Schematics

The control timer is automatically energized to start the cleaning sequence 60 seconds after the fan is shut off for the RVS. This pause allows the fan to run down. Note that there is a delay built into the timer. The main blower fan must run for 30 seconds with all doors and openings on the collector closed to start timing sequence. The vibrator motor starts and runs for a preset time of 30, 60 or 90 seconds, shaking dust from the filter cartridge. A diaphragm at the bottom of the filter cartridge opens after the fan is shut off, allowing fine dust particles collected on the filter media to escape. The dust falls down into the dust pan or optional hopper for disposal as shown in Figure 2.

Optional re-entrainment louvers below the filter prevent dust from being re-entrained on the filter when the blower is started.

2.0 INSTALLATION

2.1 Inspection

The RVS collector is normally shipped by common carrier and should be checked for any damage that may have occurred en route. Any damage should be noted and the carrier notified immediately.

2.2 Pre-Installation

No special foundation other than a solid, level surface is necessary unless your RVS collector has been ordered with the optional hopper.

CAUTION

The collectors have high centers of gravity. Careful handling is required to avoid overturning the collector during movement.

CAUTION

A crane or fork truck is recommended for the unloading, assembly, and installation of the RVS collector.

NOTE

When moving the collector, do not lay it on its side or back, as damage to the fan housing and filter element panel seal may result.

The weight of the dust collector and all auxiliary equipment, including the optional hopper, must be considered when planning for the foundation. See individual Specification Control Drawing for dust collector weight and anchor bolt location.

The anchor bolts must extend 1-3/4 inch above the foundation. The collector should be located with consideration for side removal emptying of the hopper, 5 gallon pails and 55 gallon drum; shortest run for location of ductwork; electrical connections and maintenance. In the case of hazardous dust, consult with an Industrial Hygienist and/or your insurer for location of the unit.

NOTE

All hardware and fasteners on the RVS dust collector require metric wrenches and sockets.

2.3 Location

Locate the RVS collector as near to the dust source as possible, except in cases where the dust is explosive or a fire hazard.

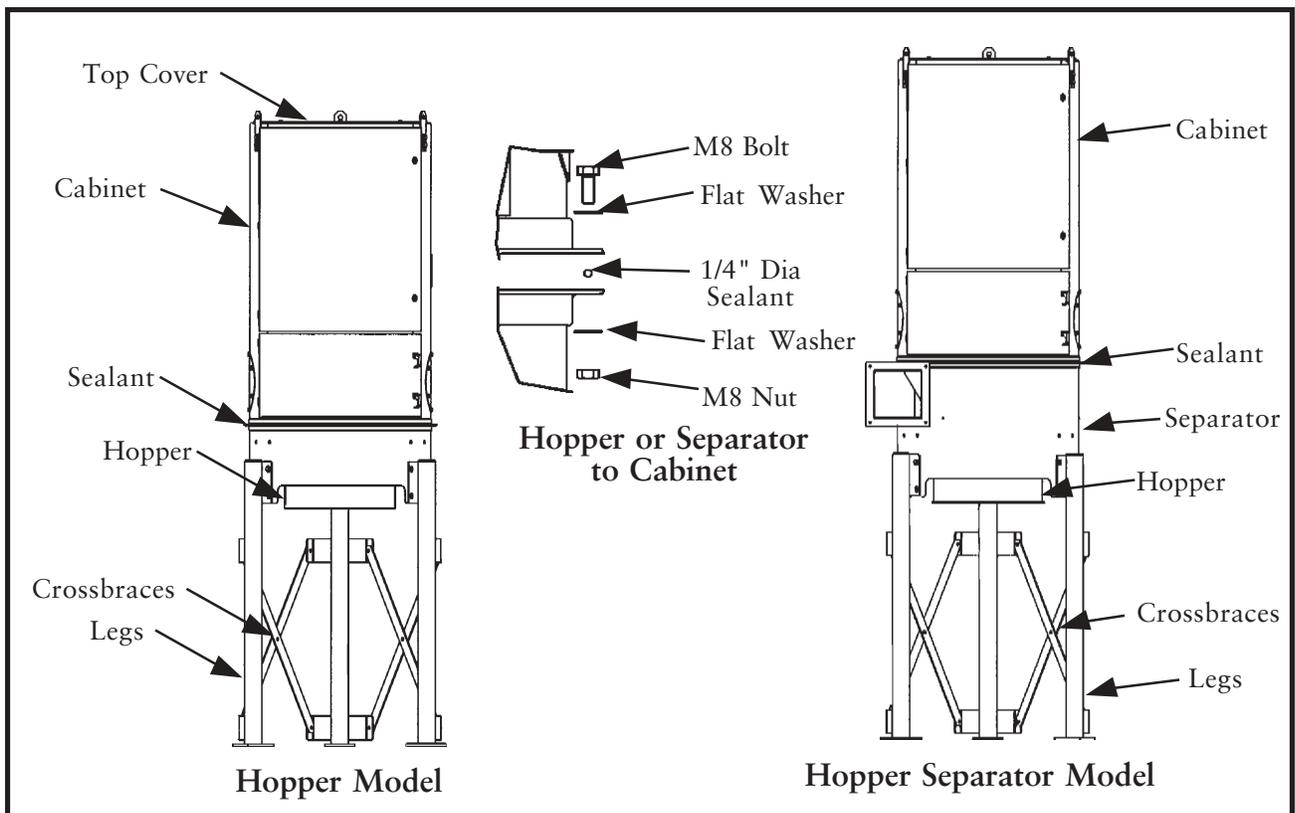


Figure 3
Hopper and Separator Model Installation

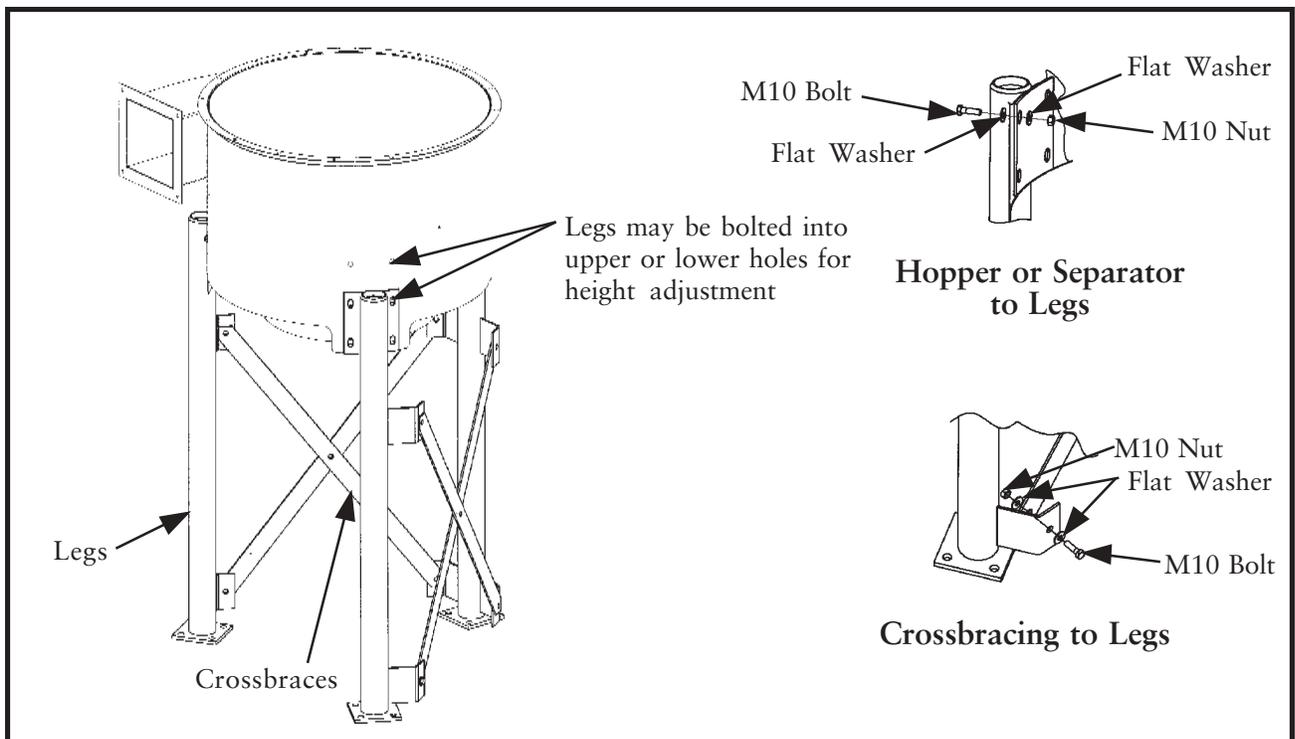


Figure 4
Legs to Hopper Separator Installation

2.4 Assembly Hopper and Separator

1. Assemble leg crossbraces to the hopper or separator, as shown in Figure 3 and 4. Legs and crossbraces should be located to allow access from the desired direction. Consider this access when installing legs and crossbracing. Also consider access to the cabinet doors.
2. Assemble the cabinet to the hopper or separator using bolts, nuts, washers, and sealant as shown in Figure 3.
3. Lifting lugs are provided. The three lugs provided may be removed after the hopper is in place. The lugs may be unbolted from the cabinet.

NOTE

The lift lug bolts must be bolted back into the cabinet after the lugs are removed. This will ensure there are no cabinet leaks at the bolt holes.

2.5 Assembly of Hopper and Separator Attachments

2.5.1 Square to Round Inlet Adapter

Install the square to round inlet adapter to the separator inlet as shown in Figure 5.

2.5.2 55-Gallon Drum Cover Pack

Install the 55-Gallon drum cover pack to the hopper or separator as shown in Figure 6.

2.6 Assembly of Cabinet Attachments

2.6.1 Inlet Collar

To install the inlet collar, first remove the inlet cover from one of the three inlet locations. Retain the bolts from the cover plate for mounting the inlet collar, as shown in Figure 7.

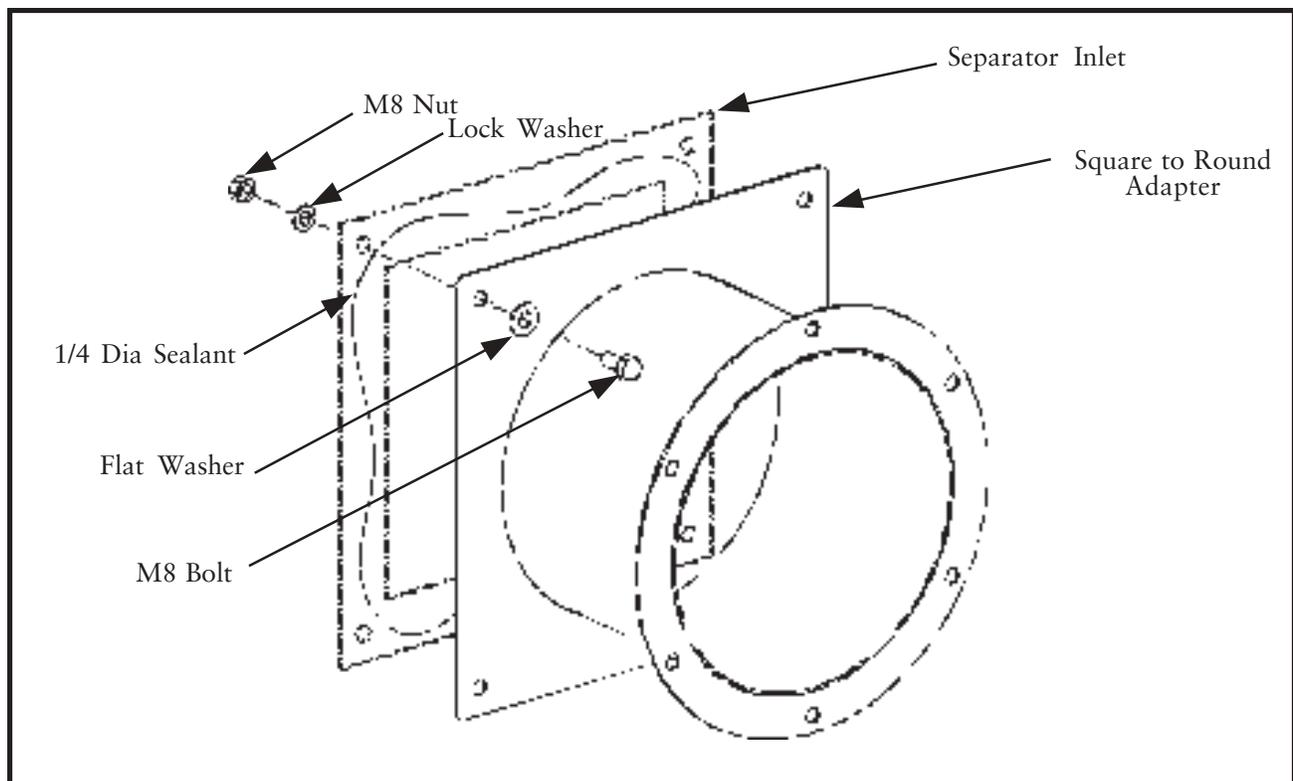


Figure 5
Square to Round Adapter Installation

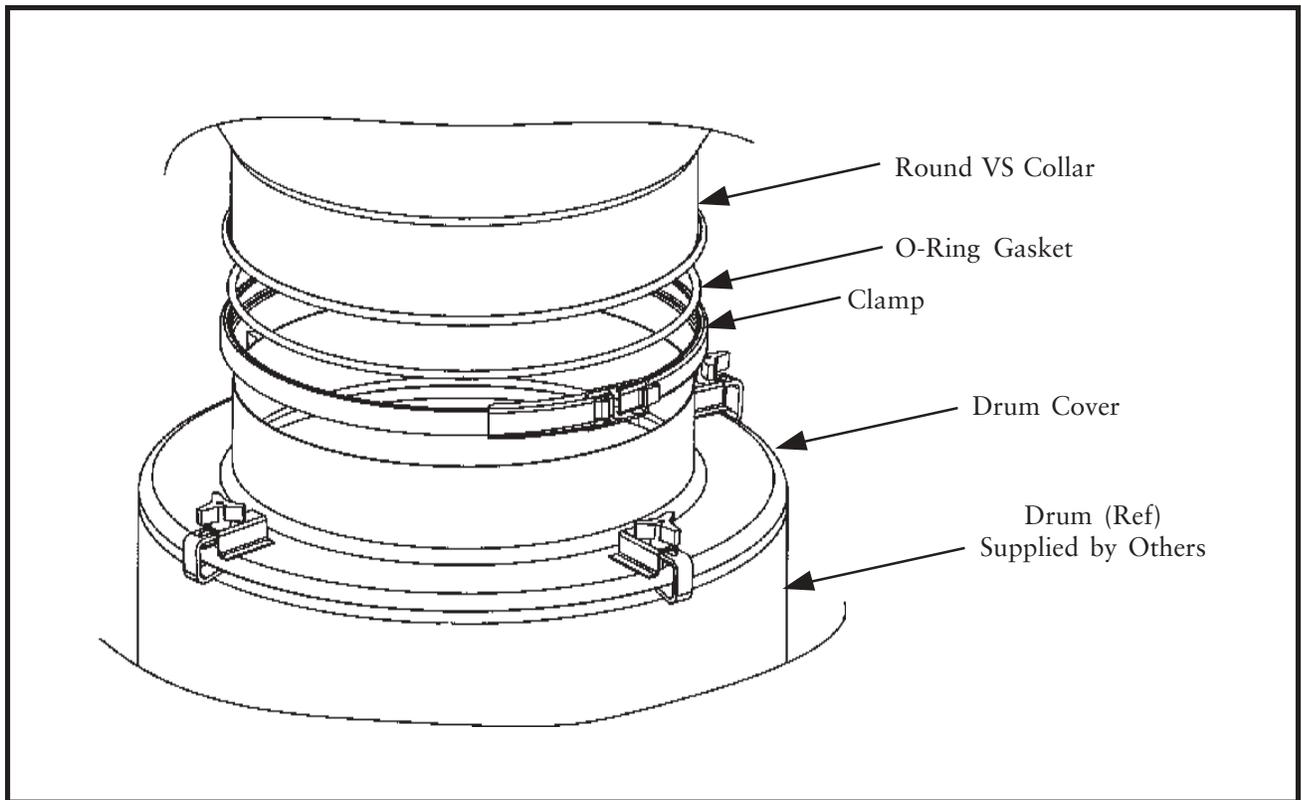


Figure 6
55-Gallon Drum Cover Pack Installation

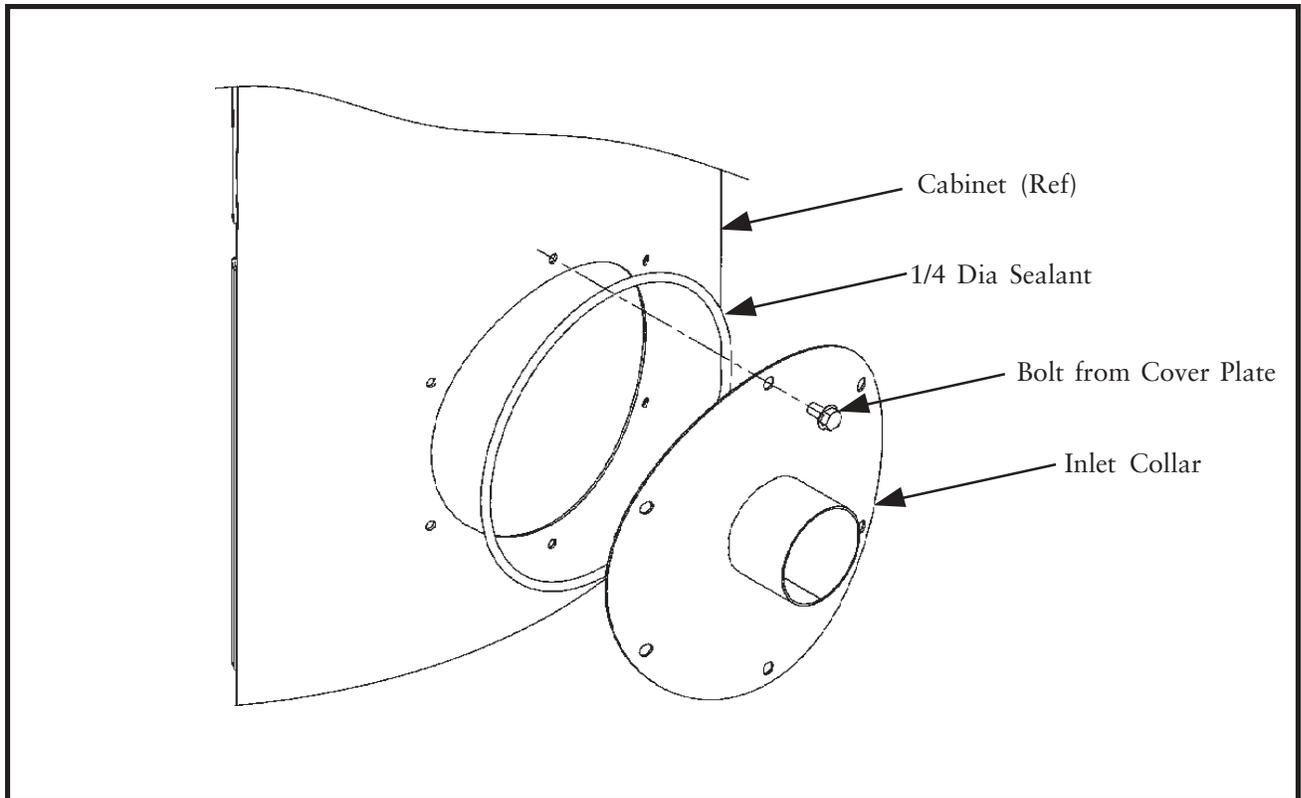


Figure 7
Inlet Collar Installation

2.6.2 5-Gallon Pail Pack

Install the 5-gallon pail pack to the cabinet as shown in Figure 8.

2.6.3 40-Liter Pail Pack

Install the 40-liter pail pack to the cabinet as shown in Figure 9.

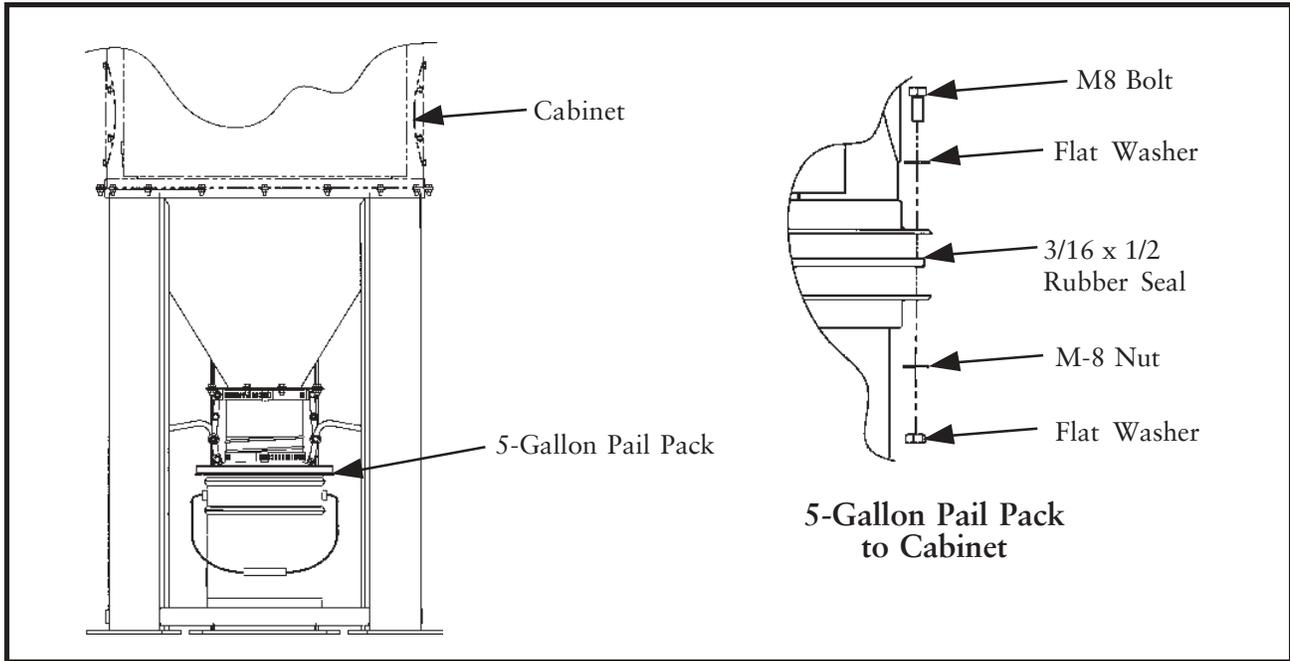


Figure 8
5-Gallon Pail Pack Installation

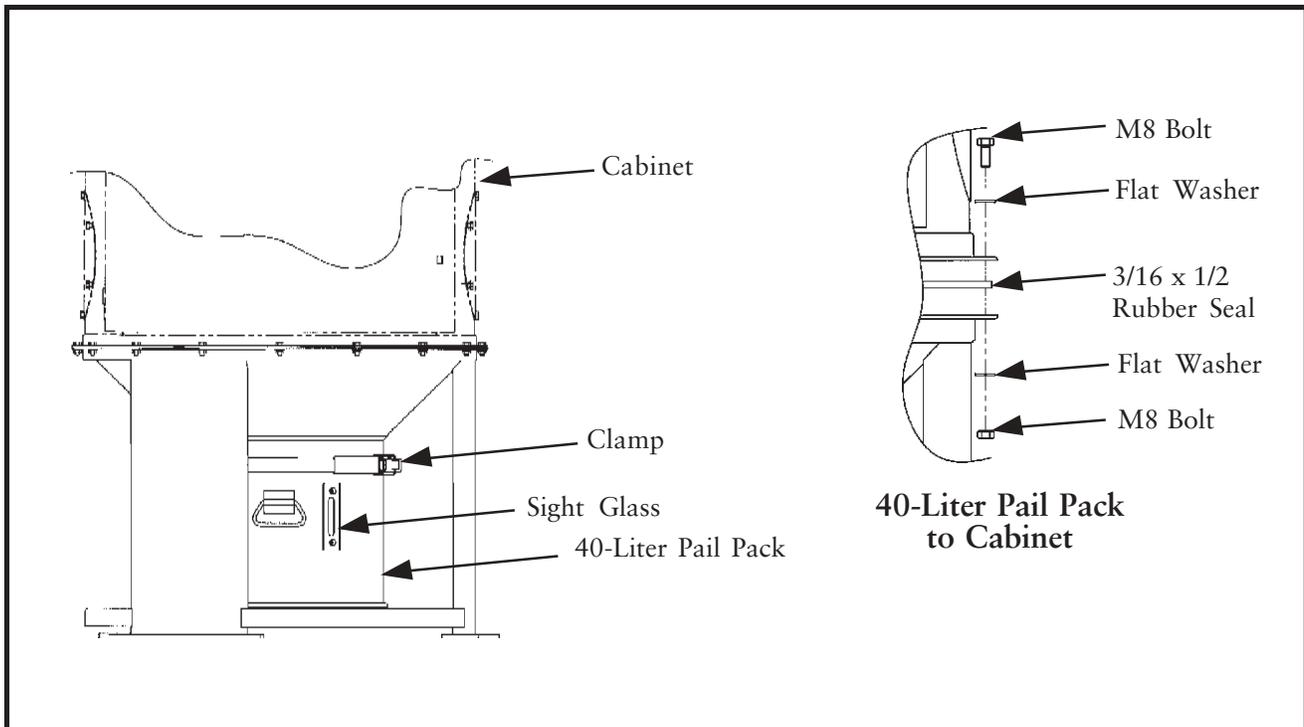


Figure 9
40-Liter Pail Pack Installation

2.6.4 Silencer

If the optional silencer is selected for the RVS collector, install it to the top of the cabinet as shown in Figure 10.

2.6.5 HEPA Filter

If the RVS collector has a HEPA filter, it should be installed as shown in Figure 11.

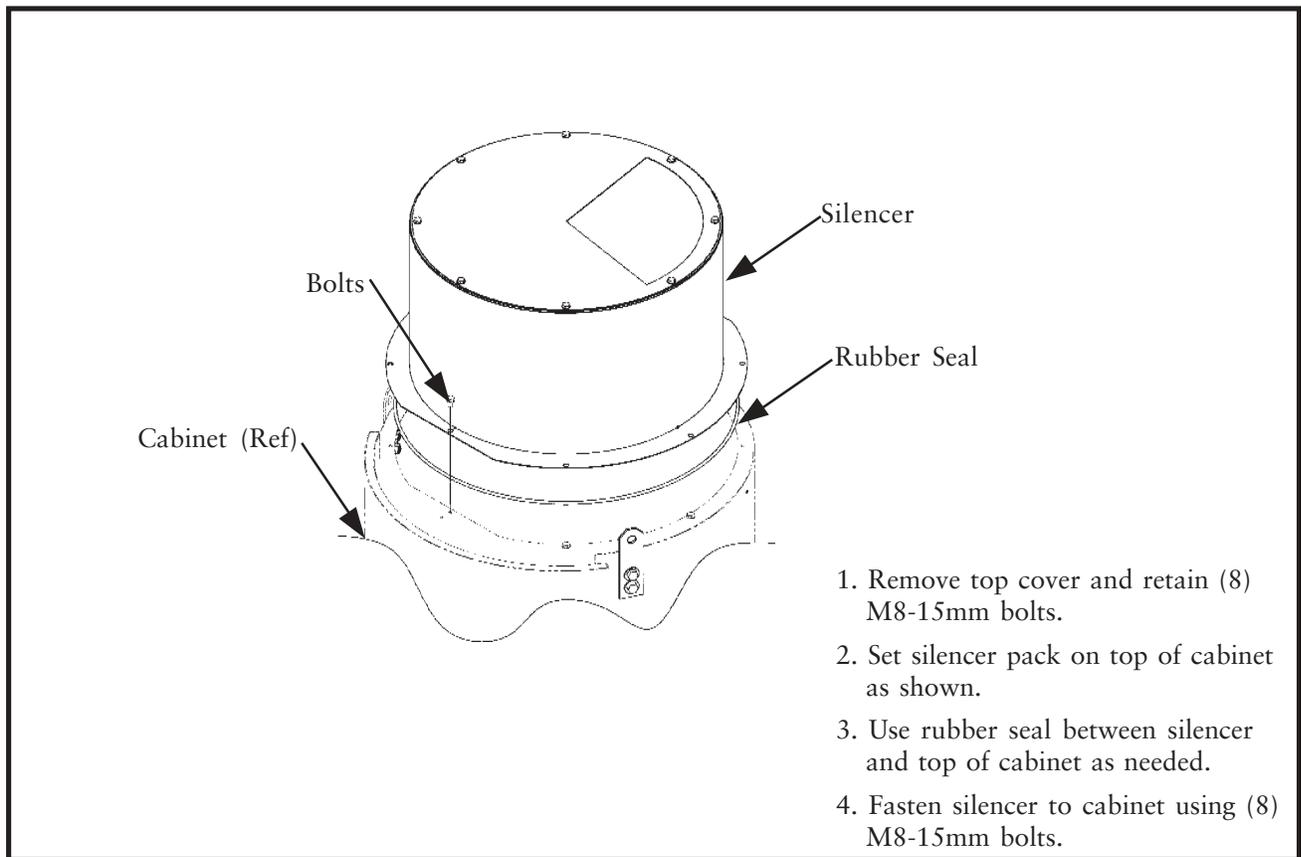
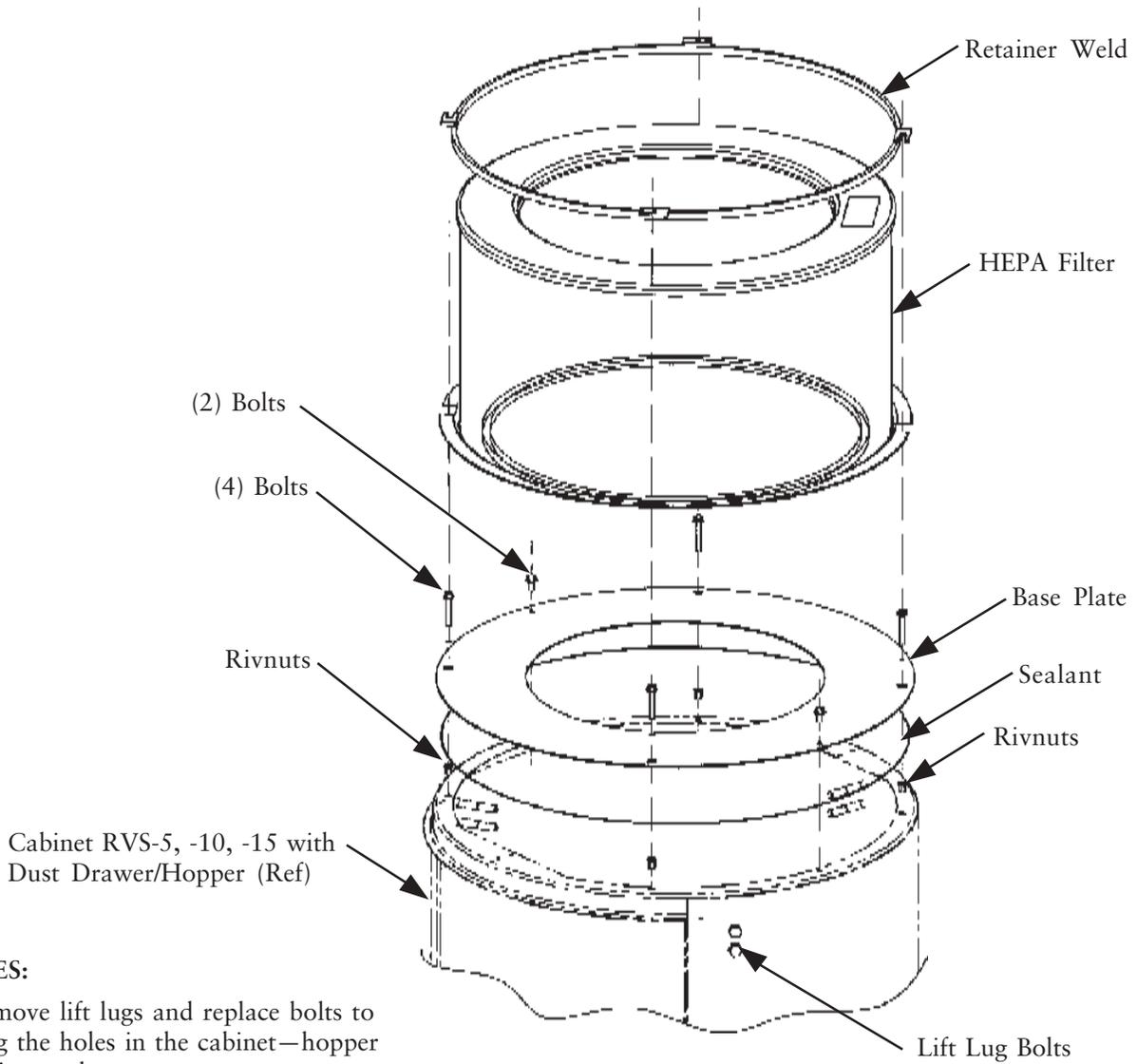


Figure 10
Silencer Installation



NOTES:

1. Remove lift lugs and replace bolts to plug the holes in the cabinet—hopper cabinet only.
2. Install 4 rivnuts in the enlarged cabinet holes per drilling detail.
3. Apply sealant to the outside of the cabinet bolt circle.
4. Secure the base plate to the cabinet with two bolts.
5. Thread in 4 bolts into rivnuts.
6. Set the HEPA filter on the base plate and slide the retainer weld on with the brackets facing up.
7. Tighten 4 bolts down, alternating to the opposite bolt.

Figure 11
HEPA Filter Installation

2.6.6 Outrigger Package

If the RVS collector has an Outrigger package, install the outriggers to the dust drawer cabinet as shown in Figure 12.

2.6.7 Pressure Switch

The pressure switch is factory installed. See Figure 13. The switch is inside the control box on unwired units. The switch is outside the control box on prewired units.

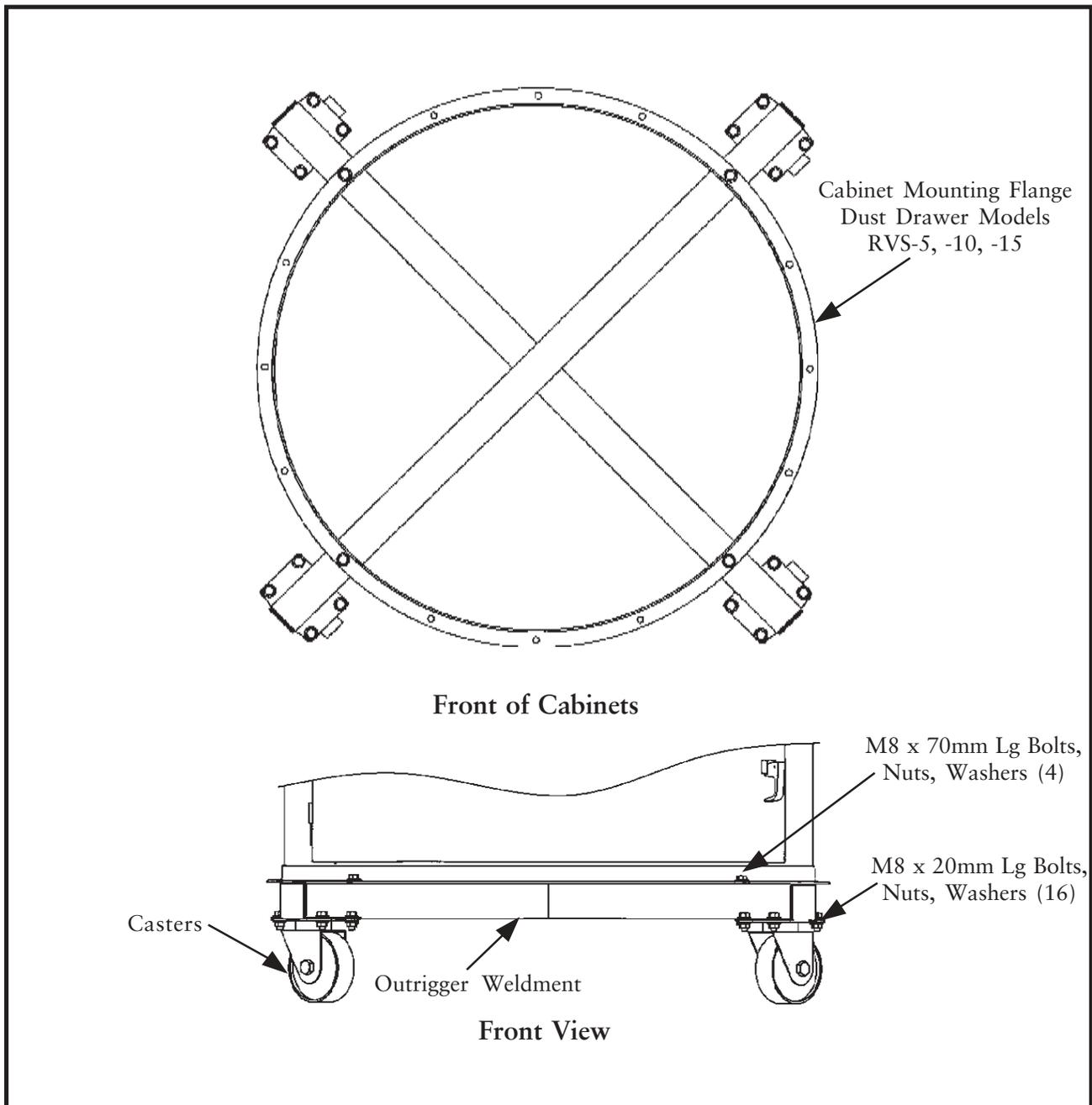


Figure 12
Outriggers Installation

2.6.8 Magnehelic Gage Pack

The Magnehelic gage should be installed as shown in Figure 14.

2.6.9 5-Gallon Pail Insert 55-Gallon Drum Insert

The 5-gallon pail insert assembly is shown in Figure 15. The perforated plastic insert should be installed inside the poly bag and the assembly set in a 5-gallon pail. The top of the poly bag should fold over the 5-gallon pail and seal against the pail cover. This will prevent the poly bag from being sucked into the dust collector. Remove the plastic insert when the poly bag is full. The plastic insert can then be reused.

Follow the preceding procedure for 55-gallon drum inserts installation.

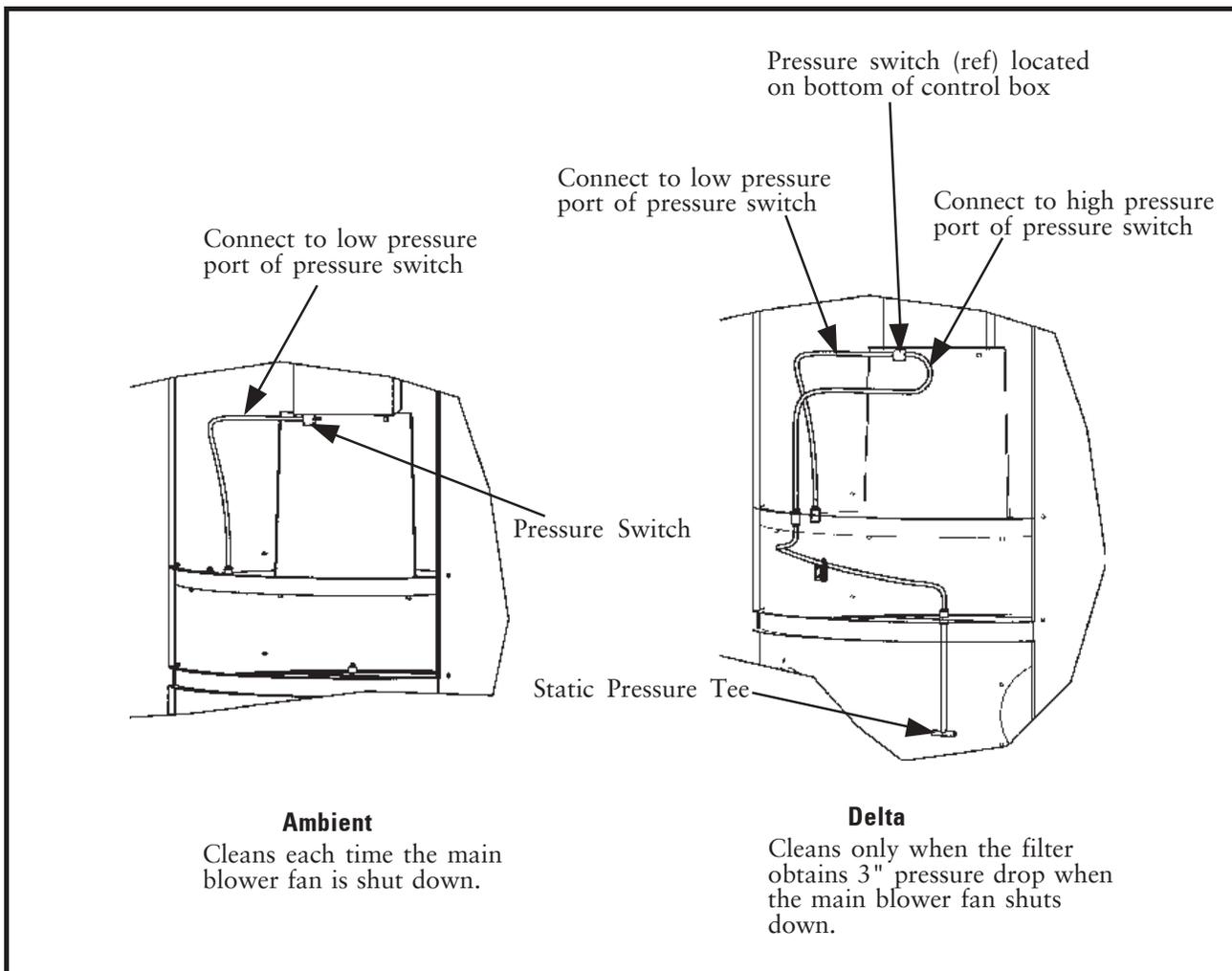


Figure 13
Ambient and Delta Pressure Switch Installation

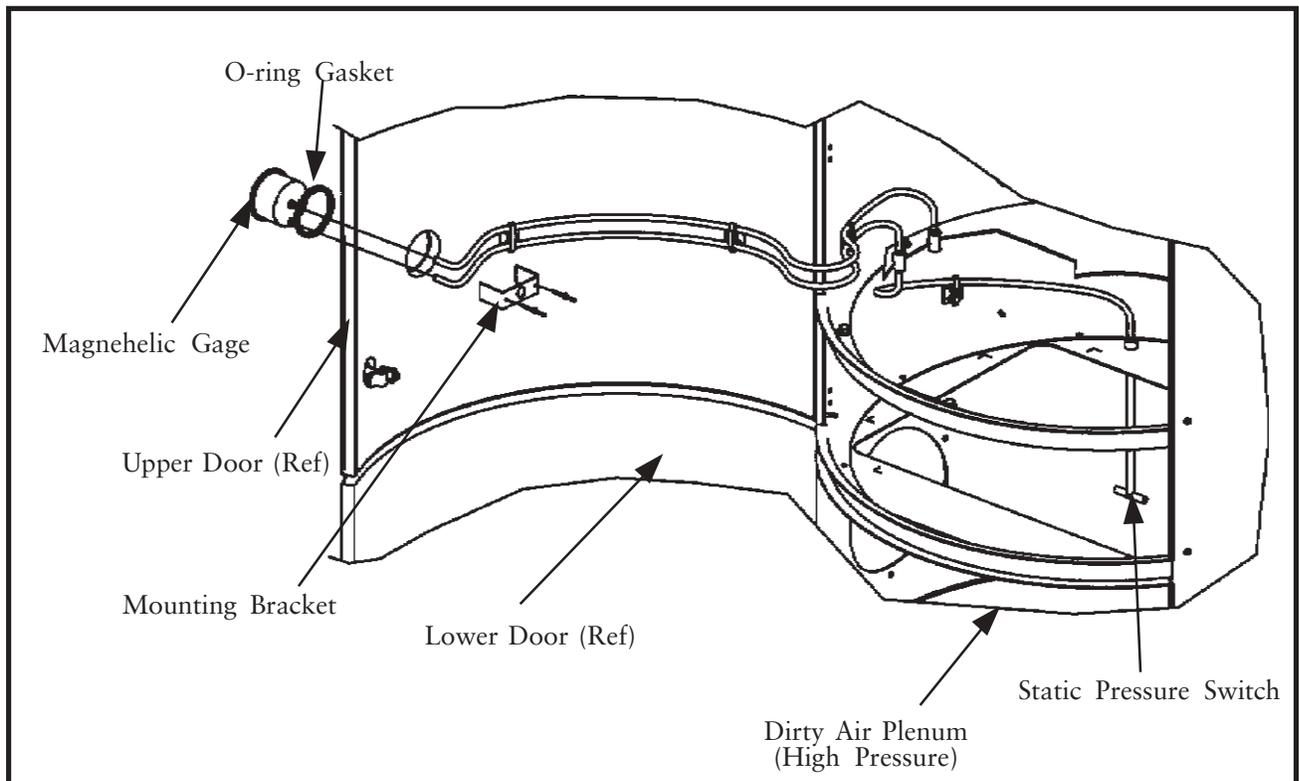


Figure 14
Magnehelic Gage Installation

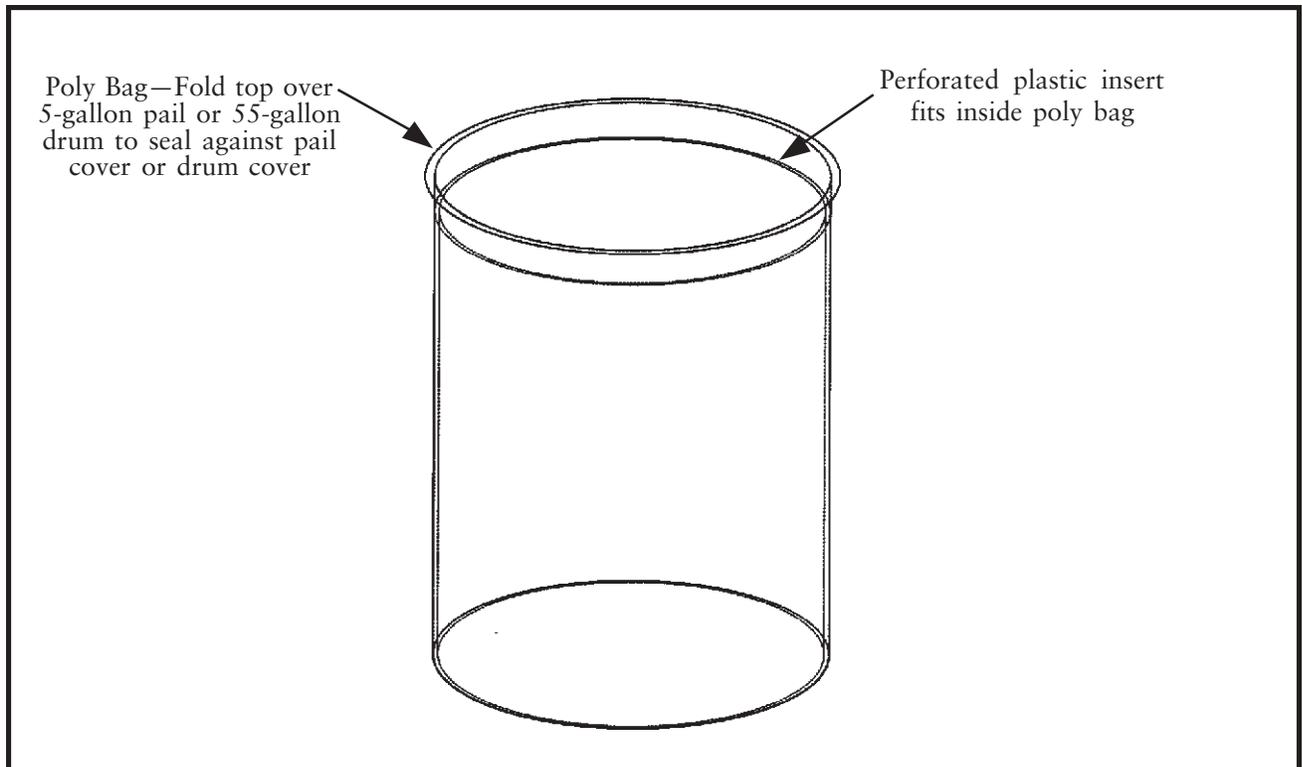


Figure 15
5-Gallon Pail Insert/55-Gallon Drum Insert

2.7 Ductwork

NOTE

Various inlet sizes are available.
Specify size required.

CAUTION

If the unit is operated with more than maximum permissible inlet area (specified by your sales representative), the fan motor may become overloaded or dust may settle out due to low carrying velocities.

1. When installing ductwork, use the shortest possible runs, 2 diameter radius elbows and maximum 30° branch entries. Avoid the use of tees. Connect the piping joints with sheet metal screws, rivets or solder. Finish each joint with a single wrap of duct tape.
2. Ductwork must be properly sized for air velocities recommended for the material being conveyed.

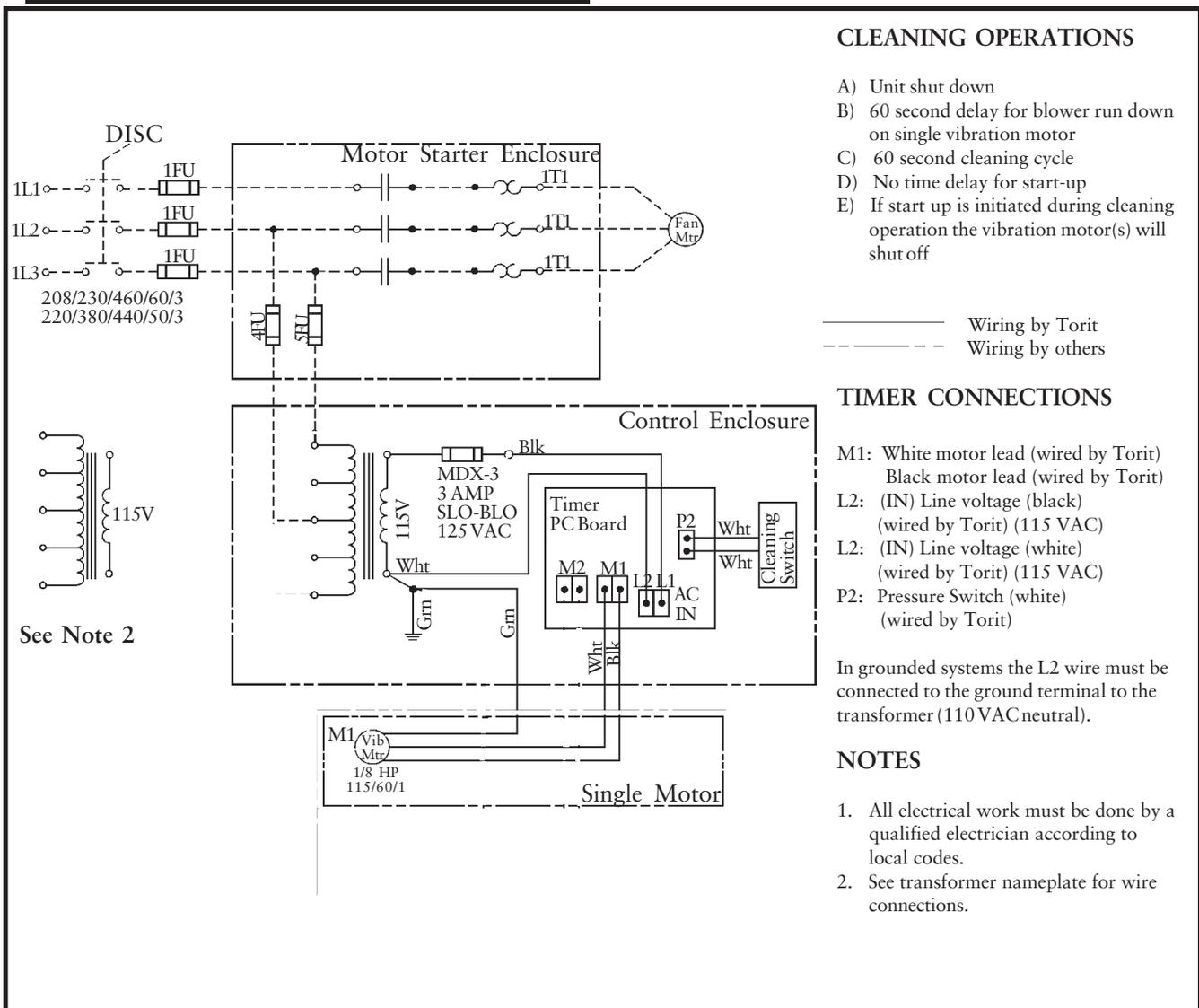


Figure 16
Electrical Wiring Diagram

3.0 ELECTRICAL

CAUTION

All electrical work must be done by a qualified electrician according to local codes.

1. Make electrical connections to the disconnect switch*, fan starter*, fan motor and control box. See Figure 16—Electrical Wiring Diagram and reference 2SG-40533-00 Single Filter Cleaning Mechanism Print. Fan access is through the top door of the cabinet.

* Customer supplied

CAUTION

- Check the air exhaust outlet at the top of the collector to be sure that it is not blocked or that material is not stored over the exhaust opening.
- Stand clear of the fan exhaust during the rotation check.

2. Start the fan motor and check fan for proper rotation as indicated by the arrow on the fan housing. Proper rotation is extremely important. Even if the fan is running in the wrong direction, it will deliver approximately 40% of its rated air volume on the Single RVS-5/10/15. If the rotation is incorrect, reverse any two leads (3 phase only) on the output side of the fan motor starter.

CAUTION

Disconnect and lockout all electrical power to the collector before performing any service work.

CAUTION

All electrical controls should be remote mounted on collectors with explosion vents.

4.0 OPERATION

Turn the unit on/off as required for your operation. When the airflow becomes low, turn the unit off, wait until the fan runs down and the shake cycle is complete and then restart the unit. The RVS fan must operate for at least 30 seconds to reset the shake cycle control logic.

5.0 ROUTINE MAINTENANCE

5.1 Dust Drawer Models

Empty the collector dust drawer periodically or whenever it becomes two-thirds full. Also remove any dust that has settled to the bottom of the dust compartment. Shut off the collector fan before emptying the dust drawer.

5.2 Hopper Models

1. The hopper is not for dust storage. Empty it periodically as necessary to keep the dust in the hopper at a minimum. If a drum or pail is used, empty it when two-thirds full. Shut off the collector before emptying the drum or pail.
2. If the unit has a pail with a gate, close the gate and empty the pail. Reinstall the pail and open the gate. The collector fan does not need to be shut off if this procedure is followed.

5.3 Filter Element

If the fine mesh screen on the filter becomes plugged with fibrous material, it can be removed and cleaned. Clean with cold water only.

NOTE

Hot or warm water will cause shrinkage and the screen will no longer fit.

To remove the screen, simply pull apart at the seam. The screen is held together at the seam with Velcro®*. Reinstall the screen by butting it up against the upper end cap of the filter. Stretch the screen tight before sealing the Velcro.

NOTE

- The screen must be stretched tight when installed or it may slide off while shaking.
- The screen must be located all of the way to the top end cap, allowing holes/gaps on the perforated liner material to be covered.

*VELCRO is a registered trademark of VELCRO companies.

6.0 SERVICE

CAUTION

Disconnect and lockout all electrical power to the collector before performing any service work.

6.1 Filter Replacement (See Figure 17)

1. Disconnect electrical power.
2. Lift and turn the latches counterclockwise on the bottom door and open the door. The door may be removed by lifting it up and off the hinges.
3. Loosen the four knobs supporting the filter. Rotate the retaining ring counterclockwise to release the ring and filter.

CAUTION

Be careful that the filter does not drop when the ring is rotated, as the filter may be heavy due to dust collected on it.

4. Remove the filter support ring and the filter.
5. Check the gasket surface on the shaker panel for dust and clean as necessary before installing the new filter.
6. Install the new filter to the shaker panel reusing the filter support ring. **Tighten the knobs securely by hand.**

7. Inspect the door gasket on the cabinet and repair or replace as necessary to ensure an airtight seal.
8. Replace the door and **turn the latches clockwise and down on the bottom door by hand to obtain an airtight seal.**

The collector is now ready for start-up. Turn on the electrical power to resume operation.

CAUTION

A slight bleed-through on any new filter is normal and will quickly disappear as the filter "seasons."

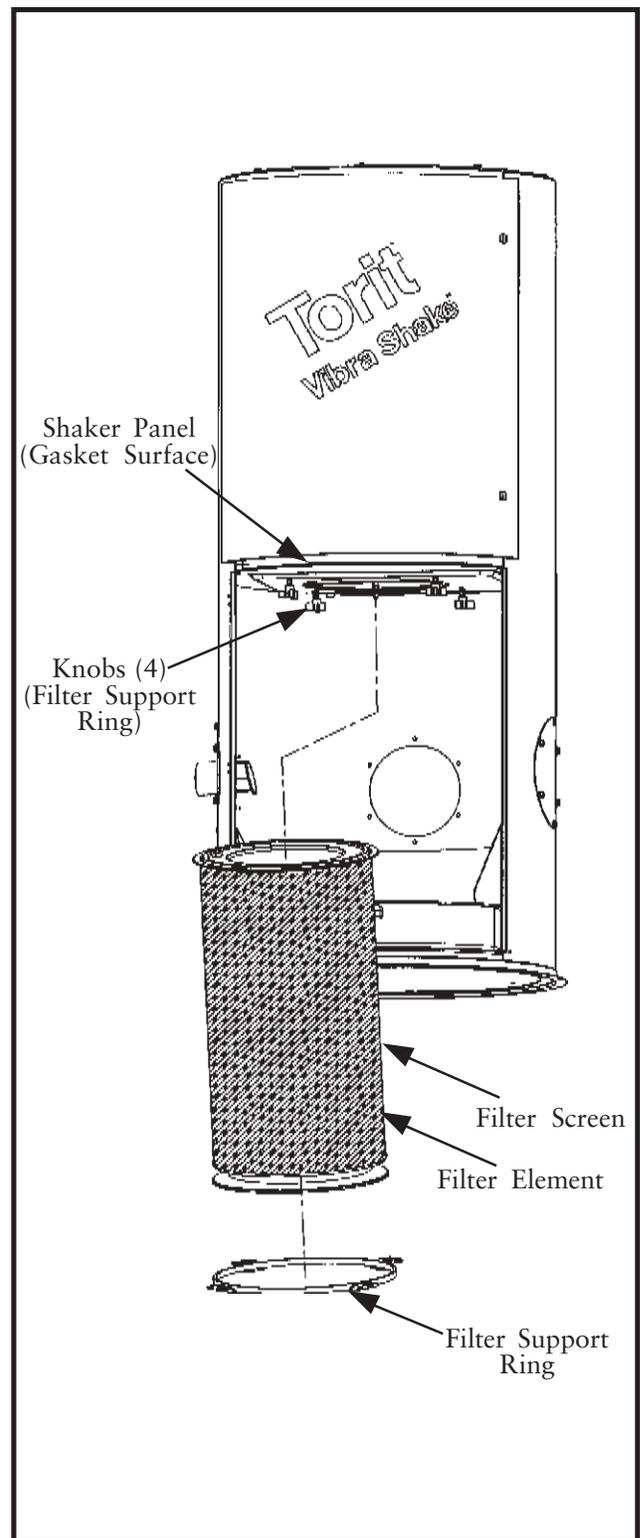


Figure 17
Filter Replacement

7.0 TROUBLESHOOTING GUIDE

TROUBLE	POSSIBLE CAUSE	REMEDY
A. No blinking red light (Control Board)	1. No input voltage to the transformer.	1. Using a volt ohm meter, check for voltage terminals H1 and H4 on the transformer. The transformer must have power at all times. Correct the input wiring (reference Figure 21 SGL Wiring Diagram and Figure 18 Transformer Voltage Table).
	2. No output voltage from the transformer. a. Blown fuse on the transformer. b. Transformer has failed.	2a. Replace fuse with MDX 3 amp fuse only. Other types of fuses may cause shaker motor damage. 2b. Using a volt ohm meter, check the output voltage at terminals X ₁ and X ₂ on the transformer (must be 115 volts AC). If there is no output voltage, replace the transformer.
B. Blinking red light functioning on the Control Board; shaker motor does not start.	1. The transformer is wired improperly for the supply voltage.	1. Correct the connections to the transformer.
	2. Check the blower fan rotation. The collector fan may be rotating backwards.	2. To check the fan rotation, look down at the top of the motor fan; it must spin clockwise (Also reference the rotation label on the fan housing or the motor mounting plate). To change rotation, reverse any two wires on the output side of the starter (3 phase motors only—reference Figure 21 SGL Wiring Diagram).
	3. Collector doors may be open.	3. Secure doors. The pressure switch will not function without a minimum internal cabinet pressure of 3" w.g. (reference Pressure Switch Details).

7.0 TROUBLESHOOTING GUIDE

TROUBLE	POSSIBLE CAUSE	REMEDY
<p>B. Blinking red light functioning on the Control Board; shaker motor does not start (cont).</p>	<p>4. Pressure switch function.</p> <p style="padding-left: 20px;">a. Pressure switch may not have plastic tubing connected properly.</p> <p style="padding-left: 20px;">b. Pressure switch has failed.</p>	<p>4a. Reconnect and replace, if necessary, the clear plastic tubing for Ambient or Delta control. Reference Figure 13 Ambient and Delta Pressure Switch Details. Ensure that the tubing is not damaged or pinched. Note: The main blower fan must be on for 30 seconds minimum for the timing sequence to start. The Delta control starts the shake cycle only after the filter element obtains a 3" pressure drop (reference Figure 13 Ambient and Delta Pressure Switch Details).</p> <p>4b. With the timer board powered, remove the two white wires from the pressure switch. Using a small wire, jump across the two connectors on the end of the two white wires and maintain contact for 30 seconds minimum (reference Figure 13 Ambient and Delta Pressure Switch Details). Caution: Be careful not to touch the high voltage wires in the control box. Remove the jumper wire and wait for 60 seconds on RVS-5/10/15 units. If the shaker motor runs, replace the pressure switch or correct tubing.</p>

7.0 TROUBLESHOOTING GUIDE

TROUBLE	POSSIBLE CAUSE	REMEDY
<p>C. Blinking light stops working on the Control Board (cont).</p>	<p>3. Shaker mechanism.</p> <p style="padding-left: 20px;">c. Shaker arm does not move freely.</p>	<p>3c. Remove the shaker assembly and check the nylon link and bearing movement. It should be very easy to pivot back and forth in the shaker channel. With the shaker assembly still disconnected, allow the shaker motor to operate separately. If the amp draw is still over 2.5 amps, replace the shaker motor. If the shaker motor operates normally, check mechanical integrity of the shaker arm or replace the shaker assembly completely.</p>
<p>D. Blower fan and motor do not start.</p>	<p>1. Wiring.</p> <p style="padding-left: 20px;">a. Proper wire size not used for motor.</p> <p style="padding-left: 20px;">b. Not wired correctly.</p> <p style="padding-left: 20px;">c. Unit not wired for available voltage.</p> <p style="padding-left: 20px;">d. Input circuit down.</p>	<p>1a. Rewire per local and national codes for proper wire size.</p> <p>1b. Check and correct internal motor wiring for proper connections for your voltage (reference Motor Manufacturer's diagram on motor).</p> <p>1c. Correct wiring for proper input voltage.</p> <p>1d. Check input to motor circuits for voltage on all leads.</p>

7.0 TROUBLESHOOTING GUIDE

TROUBLE	POSSIBLE CAUSE	REMEDY
<p>E. Blower fan and motor start, but do not keep running.</p>	<p>1. Starter kicks out.</p> <p style="padding-left: 20px;">a. Incorrect starter heater elements are installed.</p> <p style="padding-left: 20px;">b. Collector doors are off or not closed tight; slide gate or hopper exits are not closed.</p> <p style="padding-left: 20px;">c. Inlets too large for collector ratings.</p>	<p>1a. Check for proper motor starter heater elements. Replace with proper value heater elements if needed.</p> <p>1b. Close all openings.</p> <p>1c. Consult your local Torit representative.</p>
<p>F. Insufficient air flow.</p>	<p>1. Fan rotating backwards.</p> <p>2. Collector openings are not closed.</p> <p>3. Ducting collapsed or plugged.</p> <p>4. Improper duct size or too much flexible ducting.</p> <p>5. Fan exhaust area restricted.</p>	<p>1. Check the fan rotation by looking down at the top of the collector; it must be running clockwise. Change the motor rotation, with the power disconnected, by changing any two leads (three phase only).</p> <p>2. Tighten all doors and make sure the hopper drum/pail is installed or the hopper gate is closed.</p> <p>3. Remove and replace if the ducting is collapsed. Remove and clean out debris that is blocking the ducting.</p> <p>4. Check with your local Torit representative for information.</p> <p>5. Check the fan exhaust area for blockage. Remove the debris that is blocking the fan exhaust area. Also remove all material that may be stored on top of the collector; remove boxes, tools, etc.</p>

7.0 TROUBLESHOOTING GUIDE

TROUBLE	POSSIBLE CAUSE	REMEDY
<p>F. Insufficient air flow (cont).</p>	<p>6. Filter element plugged with dust.</p>	<p>6. Remove and replace filter cartridge (reference Parts List and Figure 16 Filter Replacement).</p>
	<p>a. Filter screen not in place.</p>	<p>6a. Check the filter screen to make sure that it has not slid down. The screen has a velcro seam for easy installation and removal. The screen must be stretched tightly around the filter and located all the way to the top of the filter end cap, covering the perforated liner completely (reference Figure 17 Filter Replacement).</p>
	<p>b. Plugged filter screen.</p>	<p>6b. If the filter screen is plugged, remove and wash in cold water only. Note: Hot water will cause screen shrinkage. To reinstall, reference Figure 17 Filter Replacement.</p>
	<p>7. Dust storage area is over full, plugging inlet and filter area.</p>	<p>7. Empty the dust pan or hopper, drum/pail area. Reinstall the drum, pails/dust drawer after emptying and secure all doors.</p>
	<p>8. Shaker mechanism is not working.</p>	<p>8. Check the shaker mechanism or electrical controls. Reference Section C1, 2, and 3 in this troubleshooting guide.</p>

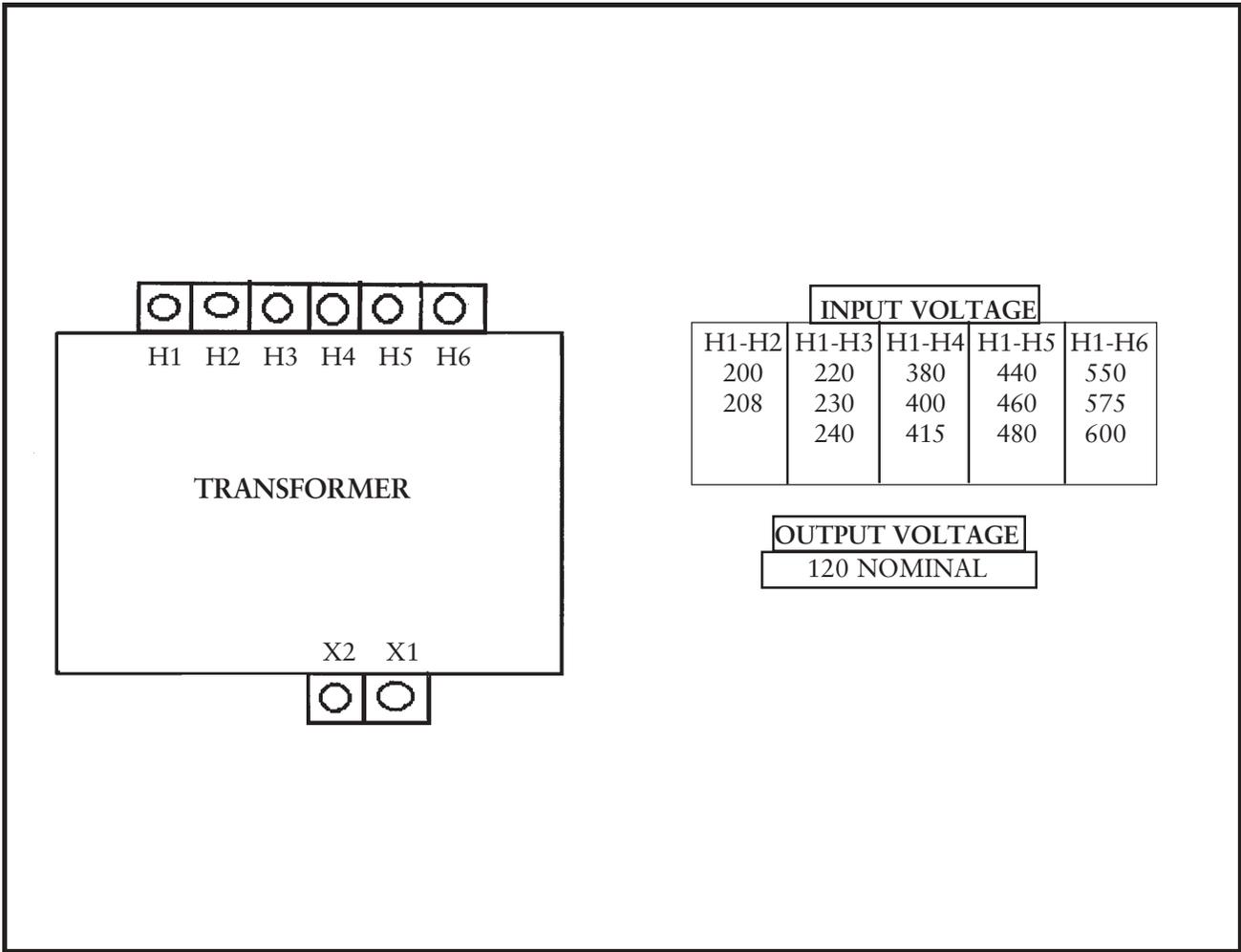


Figure 18
Transformer Voltage Table

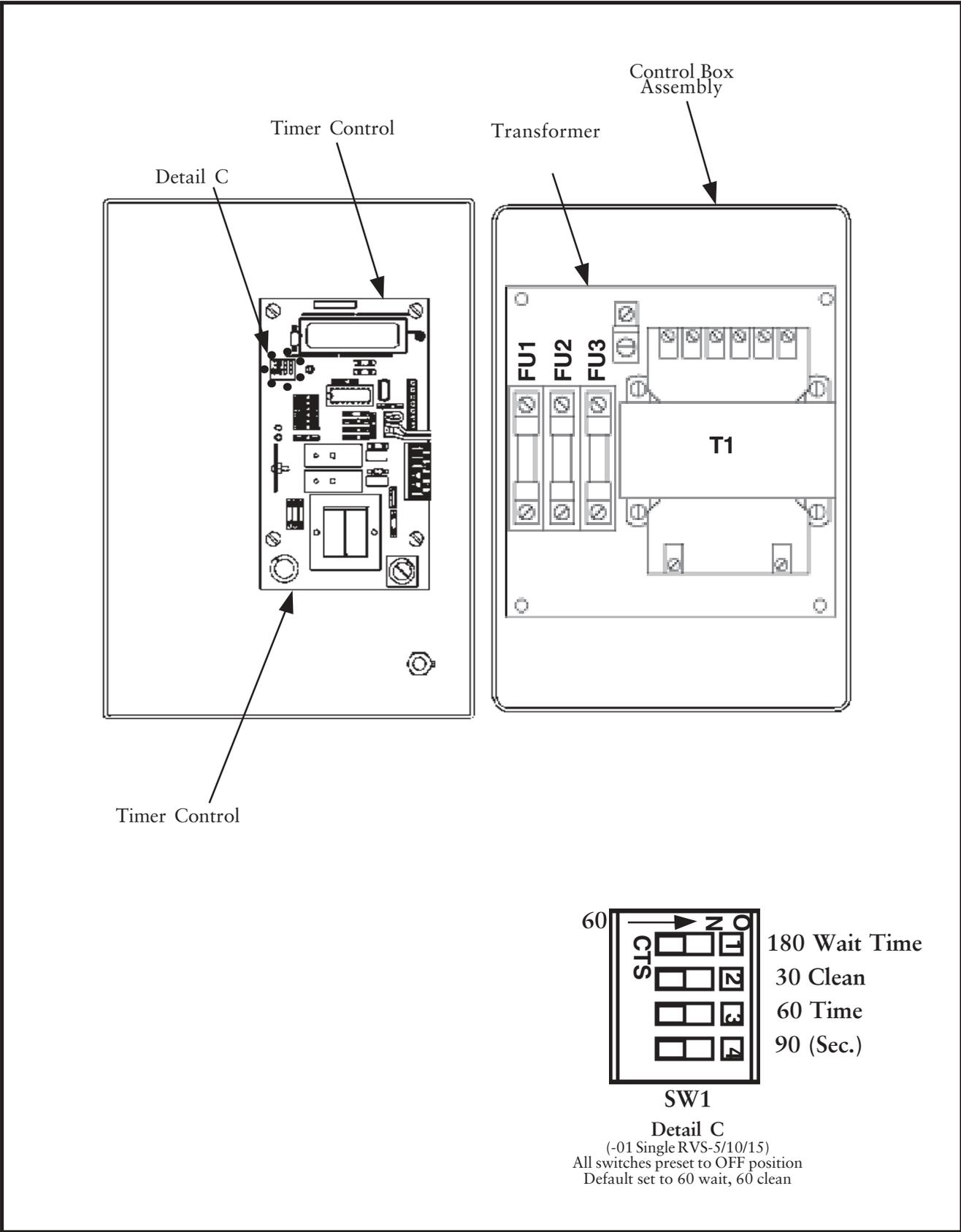


Figure 19
Control Box Assembly

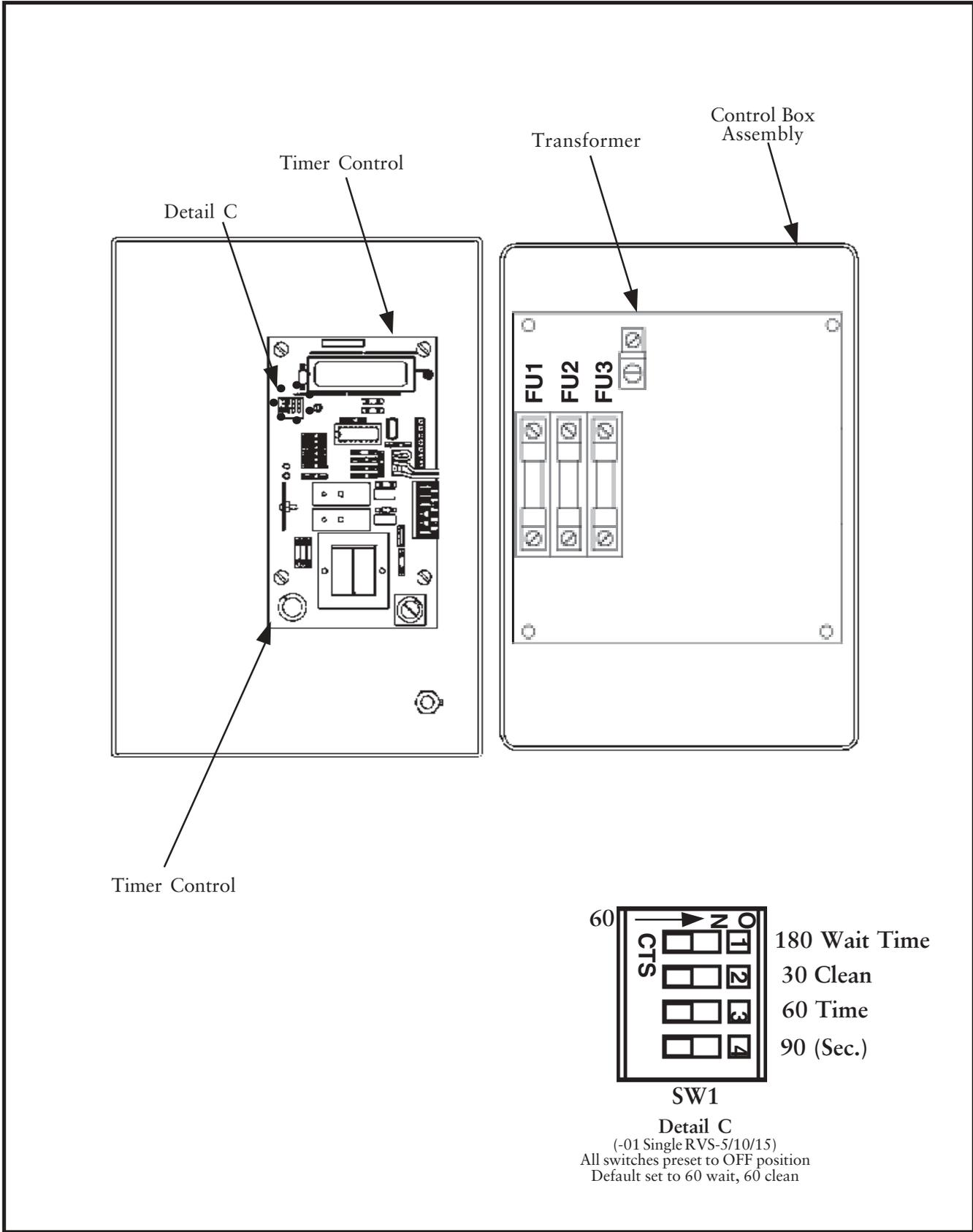


Figure 20
Control Box Assembly

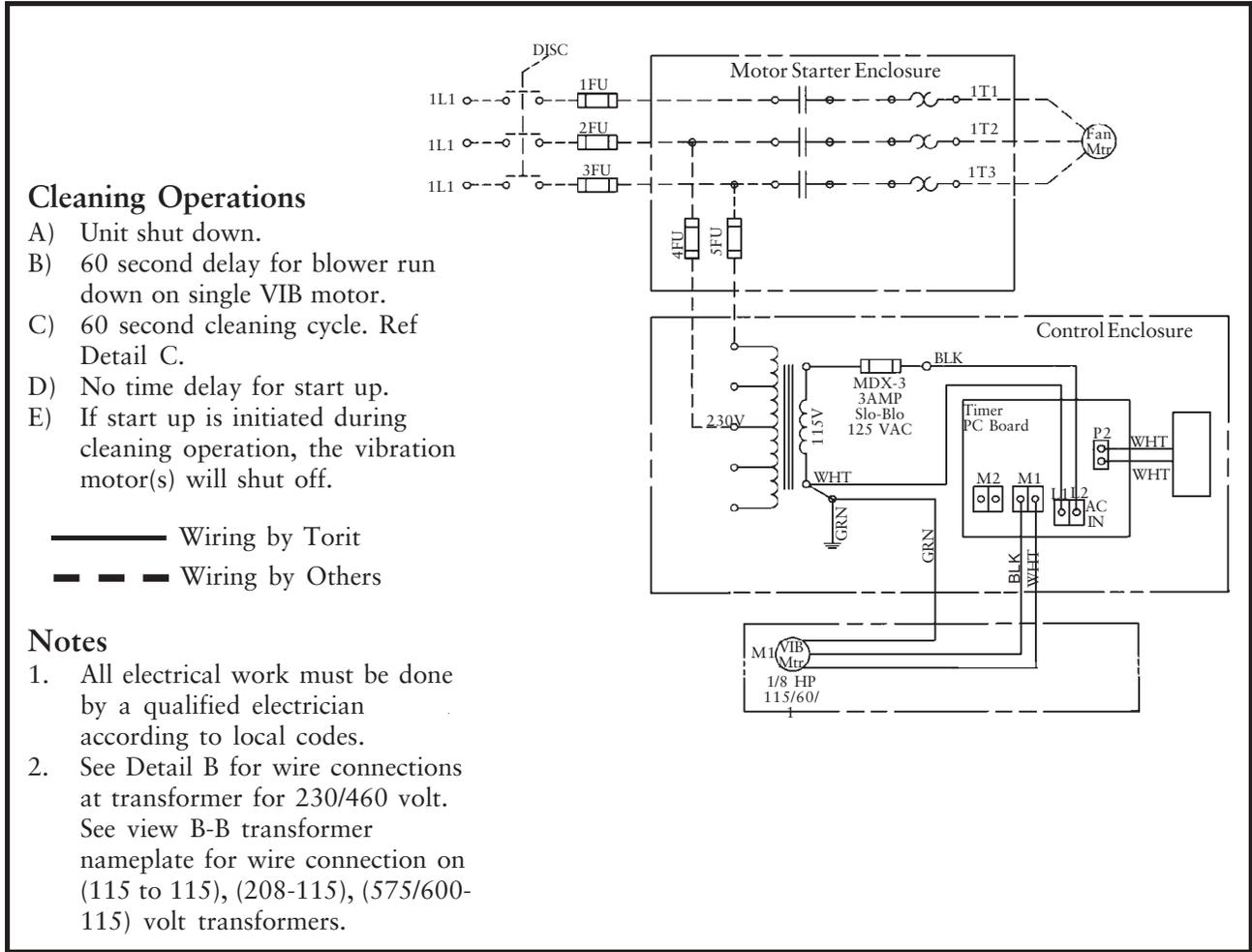


Figure 21
Wiring

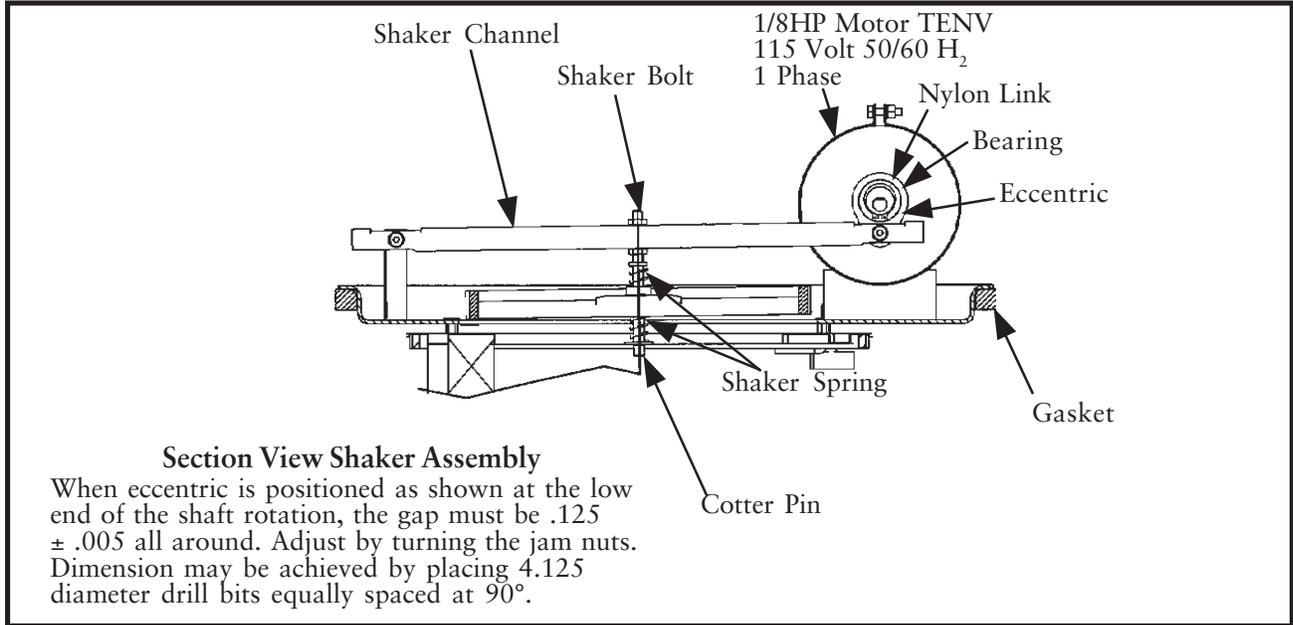


Figure 22
Shaker Assembly

The Torit® Warranty

Seller hereby warrants that it will, at its option, repair or replace the goods, or return the purchase price thereof, which are found to be defective in material or workmanship, or not in conformity with the contract requirements provided that, within one (1) year of shipment thereof, Purchaser gives written notice of such defect to Seller, the Purchaser returns the goods to a Donaldson Company designated point of manufacture, with transportation charges prepaid by purchaser, and an examination by Seller discloses to its satisfaction the existence of such defect or nonconformity with the contract requirements. In no event shall Seller be liable for any incidental, special or consequential damages resulting from said defects or nonconformity.

The foregoing does not apply to components which were not manufactured by seller, and is expressly in lieu of all other warranties expressed or implied, including any warranty or merchantability or fitness for a particular purpose or use. There are no warranties which extend beyond the foregoing. No agent, employee or representative of the Seller has any authority to bind the Seller to any affirmation, representation or warranty concerning the goods sold under this sales contract and unless an affirmation, representation or warranty made by an agent, employee or representative is specifically included within this written agreement, it shall not be enforceable by the Purchaser.

Parts and Service Program

For genuine Torit replacement filters and parts, call the Torit Express Line:

1-800-365-1331

PARTS ORDERING INFORMATION

When ordering parts, give model number and serial number, part number, description and quantity of parts desired.

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