Parts Page Reorder No. 08•68 Effective April 2008

Coolant Filtration System

Tool Manual - Safety, Operation and Maintenance

SAVE THIS DOCUMENT, EDUCATE ALL PERSONNEL

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Read and understand this tool manual before operating the system. Follow all safety rules for the protection of operating personnel

SAFETY LEGEND

WARNING

Models:

68000	(115v) 1	Phase	60 Hz
68100	(230v) 1	Phase	60 Hz
68101	(230v) 1	Phase	50 Hz

as well as adjacent areas.

A WARNING

Practice safety requirements. Work alert. have proper attire and do not operate system under the influence of alcohol or drugs



A WARNING

Ear protection to be worn when exposure to sound exceeds the limits of applicable Federal, State or Local statues, ordinances and/or regulations



Electric shock hazard. Avoid bodily contact with grounded objects, bodies of water. Do not damage cord set.



WARNING

Some dust created by sanding, grinding, drilling and other construction activities contain chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

Lead from lead-based paints Crystalline silica from bricks and cement and other masonry products

A WARNING Read and understand system manual before

A WARNING

A WARNING

work starts to reduce risk of injury to operator, visitors and system.

Eye protection must be worn at all times, eye protection to conform to ANSI Z87.1

Respiratory protection to be used when exposed to

contaminants that exceed the applicable threshold

limit values required by law

Arsenic and chromium from chemically treated lumber

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

Tool Intent: The system collects in a sump, filters and provides a flow of grinding coolant required by metal grinding and polishing processes

GENERAL SAFETY INSTRUCTIONS

Carefully Read and save all instructions before operating or servicing any Dynabrade® Abrasive Power Tool. Products offered by Dynabrade are not to be modified, converted or otherwise alerted from the original design without expressed written consent from Dynabrade, Inc.

Warning: When using electric system, basic safety precautions should always be followed to reduce the risk of a fire, electric shock, and personal injury, including the following:

Voltage Warning:

Before connecting the system to a power source (receptacle, outlet, etc.), be sure the voltage supplied is the same as what is specified on the nameplate of the system. A power source with greater than that specified for the system can result in serious injury to the user as well as damage to the tool. Using a power source with voltage less than the nameplate rating is harmful to the systems motor. If in doubt, do not plug in the tool.

Warning: Keep extension cords away from the immediate working area.

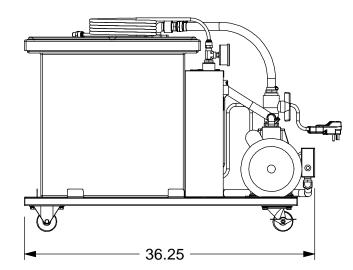
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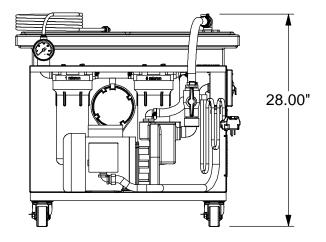
- 1. Keep work area clean. Cluttered areas and benches invite accidents.
- 2. Consider work area environment. Do not expose system to rain. Keep work area well lit. Do not use system in damp or wet locations. Do not use system in the presence of flammable liquids or gases.
- 3. Use with grinding or machining coolant only.
- 4. Keep children away. Do not let visitors contact system. All visitors should be kept away from work area.
- 5. Use the right system. Do not use system for purposes not intended.
- 6. Dress properly. Do not wear loose fitting clothing or jewelry. Clothes can be caught in moving parts. Wear protective hair covering to contain long hair.
- 7. Use safety glasses. Also use face-shield or dust mask if operation area is dusty.
- 8. Do not abuse cord. Never drag tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil and sharp edges.
- 9. Do not overreach. Keep proper footing and balance at all times.
- 10. Maintain system with care. Keep system clean for better use and safer performance. Follow instructions for changing filters. Inspect systems cords periodically and if damaged, have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged.
- 11. Do not leave system running. Disconnect system when not in use, before servicing etc.
- 12. Avoid accidental starting. Be sure switch is off when plugging in.
- 13. For indoor use only. System is NOT to be used outdoors.
- 14. Stay alert. Watch what you are doing. Use common sense. Do not operate system when you are tired.
- 15. Avoid gaseous areas. Do not operate system in gaseous or explosive atmospheres.
- 16. Do not alter or misuse system. Any alteration or modification not specified is misuse and may result in a dangerous condition. Only these accessories and attachments that are found in this instruction manual are acceptable for use with this system. The use of any other accessory or attachment might present a risk to the operator.
- 17. Replacement parts. When servicing, use only identical replacement parts. When ordering replacement parts, please specify model and serial numbers of your machine.
- 18. Do not mix grind material. There is a potential combustion hazard if ferrous and non-ferrous grinding dust is mixed. Clean inside machine between materials.
- 19. Use hearing protection. Permanent hearing loss can result from high process noise levels.
- 20. Do not use with flammable or explosive fluids.
- 21. Guard against electric shock. Be certain machine is adequately grounded before operating.
- 22. Unplug from electric power before maintenance.
- 23. Check all connections for coolant leaks: Immediately repair any leaking connections
- 24. Immediately clean up any coolant leak or spill
- 25. Use personal protective equipment to prevent contact or inhalation of coolant
- 26. Immediately wash after skin contact with coolant (Follow coolant manufacturers safety and cleanup procedures)
- 27. Maintain coolant quality to avoid bacterial growth
- 28. Test GFI prior to each use

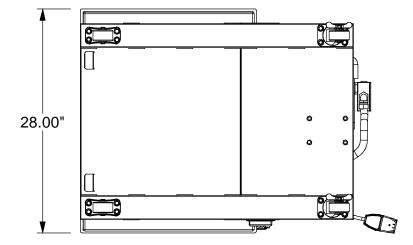
Machine Specifications

Model Number	Motor HP	Flow Rate	Voltage	Amps	Phase	Freq.	Weight	Length	Height	Width
68000-00	.5 HP	1.5 gal/min.	115	7.6 A	1	60Hz	103lb	36"	28"	28"
68100-00	.5 HP	1.5 gal/min.	230	3.80 A	1	60 Hz	103lb	36"	28"	28"
68101-00	.5 HP	1.5 gal/min.	230	3.70 A	1	50 Hz	103lb	36"	28"	28"

System Dimensions







Coolant Filtration System

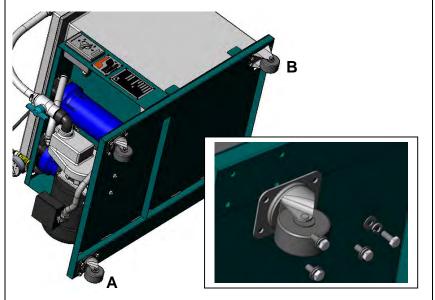
Tool Setup

The 68000 Coolant Filtration System will be pallet shipped to its destination. The following details will describe the steps required for initial system setup before operation. Use the Coolant Filtration System Flow guide to help familiarize yourself with systems components and functions.

Warning:

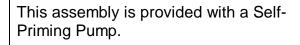
Failure to follow the required steps for tool setup may result in damage to system or injury.





After removing your system from the pallet, install casters provided to the bottom of the assembly as shown. Qty 2 rigid and Qty 2 swivel casters are provided for mounting. Swivel casters (A) are mounted at the pump end of the assembly. Rigid casters (B) are to be mounted at sump/tank end of assembly, as shown in detail.

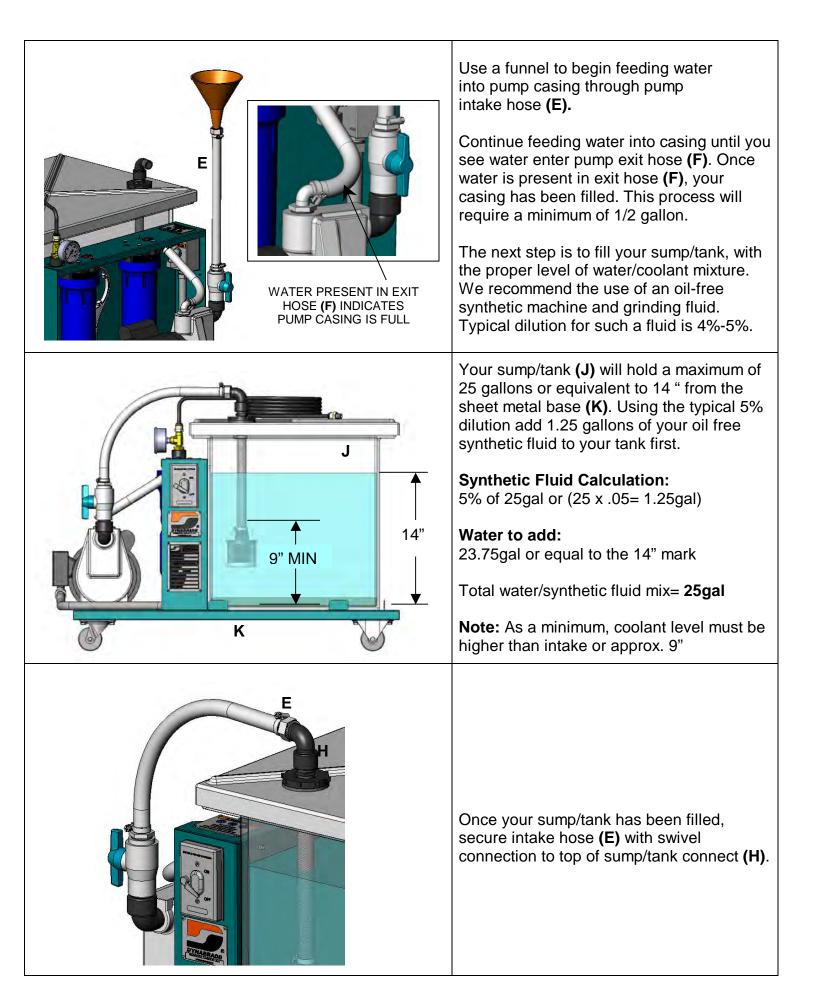
Once casters are mounted, bring unit back to upright position and prepare to fill pump casing with water.

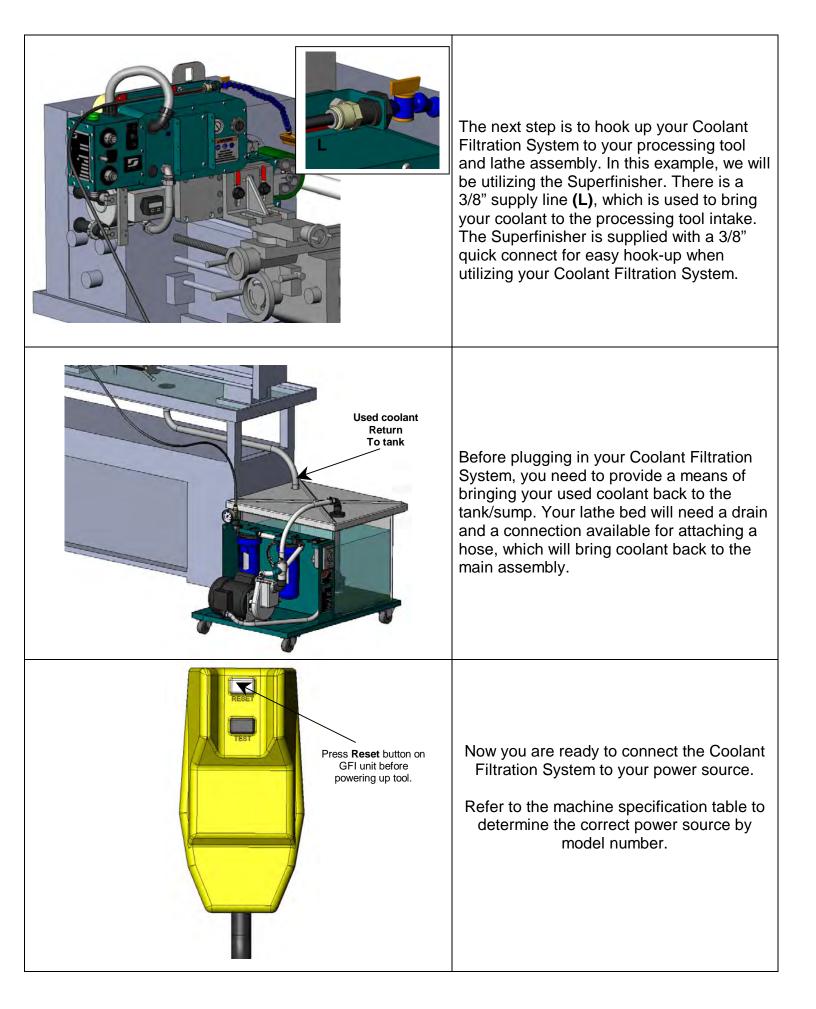


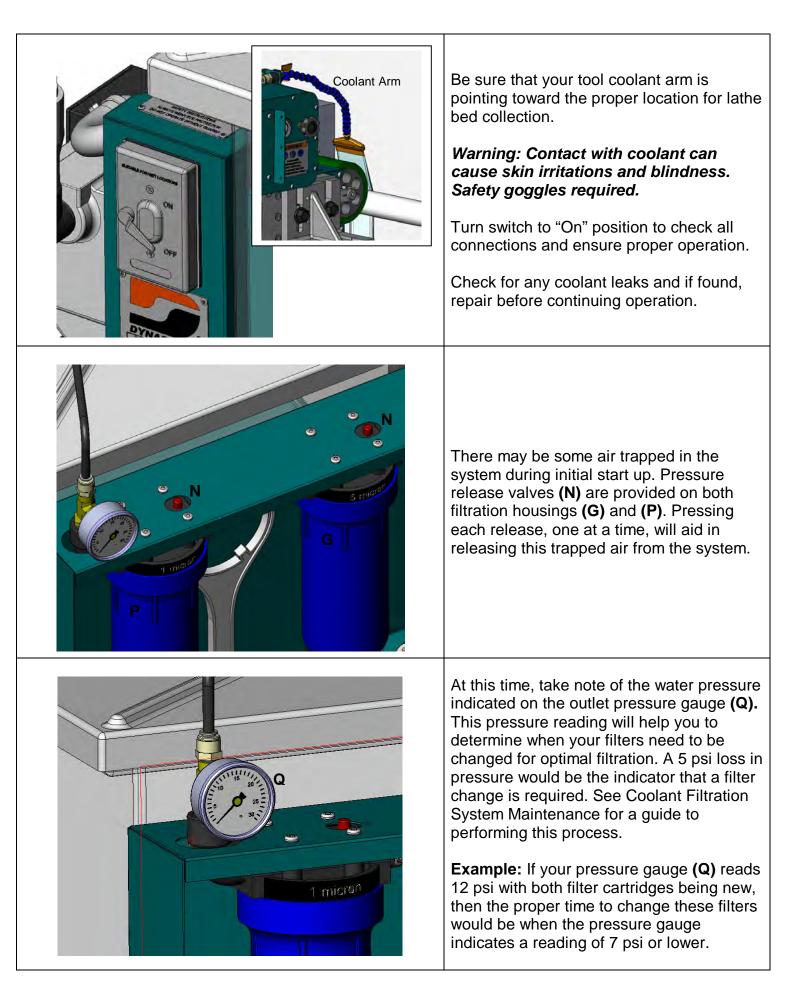
Before filling casing **(C)**, be sure valve **(D)** is in the open position as shown. Disconnect pump intake hose **(E)** from sump/tank connect **(H)**.

Pump casing must be filled with coolant mixture as described ahead, before starting. Pump self-priming will occur only when casing if full. Damage to shaft and seal will occur if pump runs dry or overheats during priming.



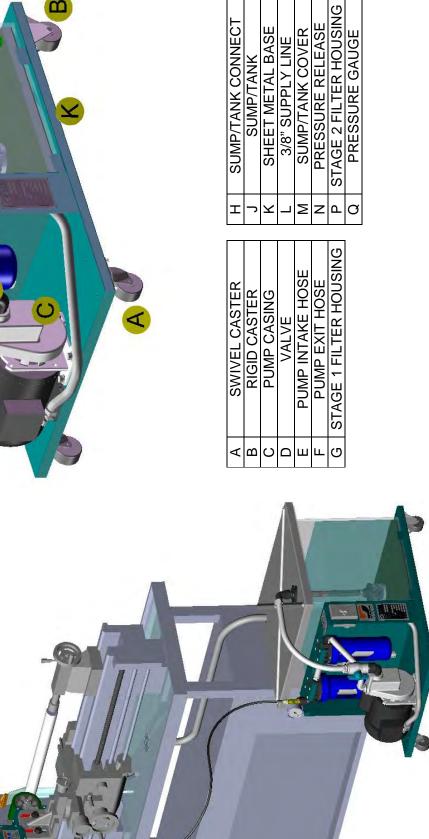






Coolant Filtration System Flow Guide

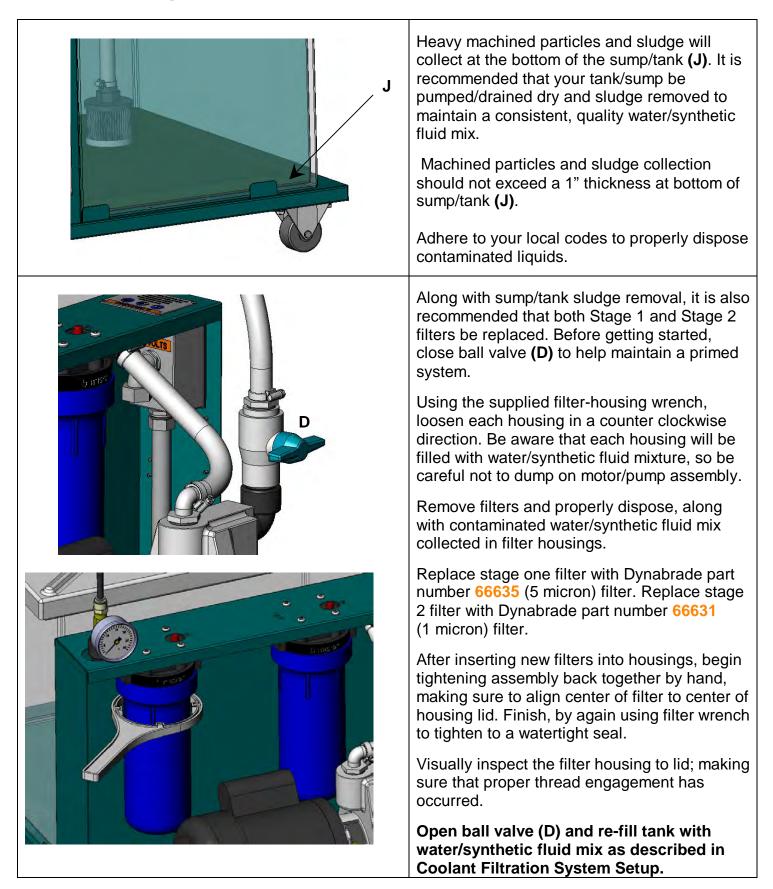
- Coolant gets drawn from sump/tank (J) and through suction filter Coolant travels down and into pump casing (C)
- Coolant exists pump casing towards Stage 1 filtration housing (G)
 - Coolant travels through Stage 1 (5 Micron) filter
- Coolant exits Stage 1 filtration housing and moves into Stage 2 filtration housing (P)
 - Coolant travels through Stage 2 (1 Micron) filter
- Coolant exits Stage 2 filtration housing
 - Coolant enters 3/8" supply line (L)
- 3/8" supply line (L) connects to processing tool at lathe
- 10. Used coolant re-enters in return hole located in tank/sump cover (IVI) 11. Heavy machined particles and sludge fall and collect at the bas of sump tank (J)



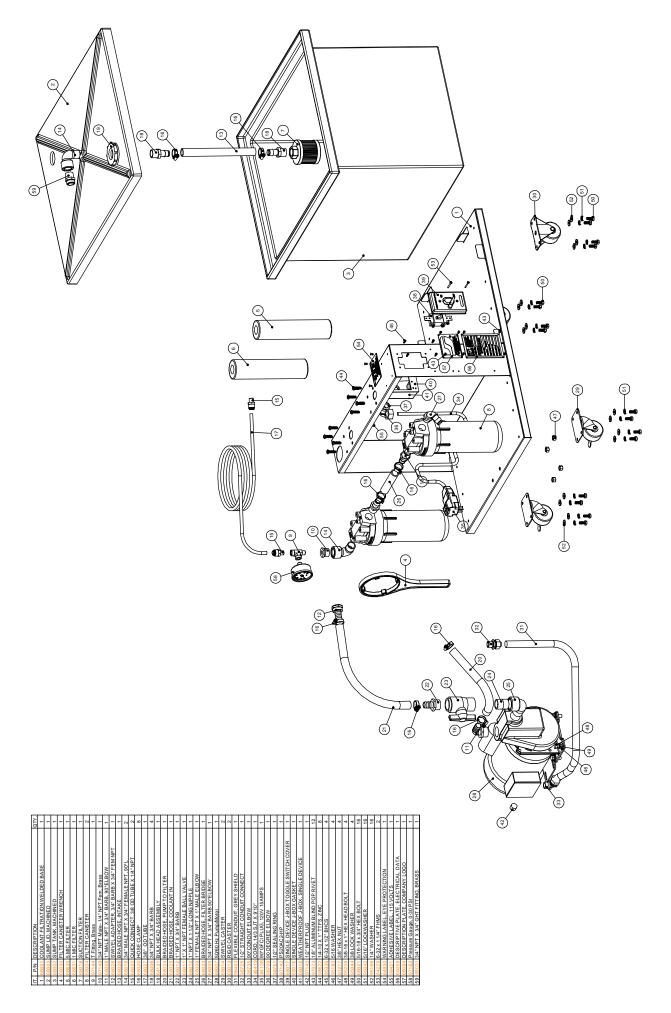
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Coolant Filtration System Maintenance

Warning: Be sure to unplug your system before performing any maintenance



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