



Auxiliary Coolant Filter - Installation - AD0111

2.1 AUXILIARY COOLANT FILTER - INSTALLATION

LAST UPDATED: 03/03/2023

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AD0111

Applies to machines built from: January, 1998

Auxiliary Coolant Filter - Installation Video

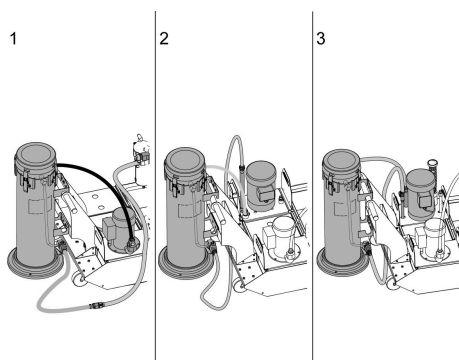
The following service video shows how to connect the auxiliary coolant filter to the following coolant systems:

- Standard coolant pump
- High pressure coolant (HPC)/Through-Spindle Coolant (TSC) 300 pump
- HPC/TSC 300/1K with an Auto-Clean pump

Note: This service video is for reference only and does not replace the written procedure.

Note: This option is not compatible with the Multistage Coolant Pump.

Introduction



This procedure tells you how to install an auxiliary coolant filter (AF) system. This #2 bag-type filter system removes contamination and small particles from the coolant before they go through the coolant pump again.

This procedure tells you how to connect the AF to these coolant systems:

- Standard coolant pump [1]
- High pressure coolant (HPC)/Through-Spindle Coolant (TSC) 300 pump [2]
- HPC/TSC 300/1K with an Auto-Clean pump [3]

Note: Machines built after 2014 have a HPC/TSC-300 Pump with a Auto Clean feature. These pumps use an airline to clean the filter during a tool change.

Machine Compatibility:

- All machines excluding tool room mills and lathes.
- **⚠ Note:** The Auxiliary Filter can not be plumbed directly to the HPFC pump, it can only be plumbed to the TSC system.

This document applies to the following service kit:

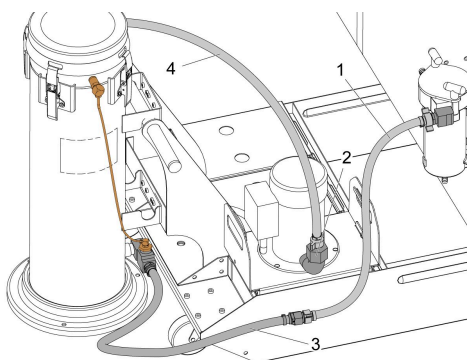
- **93-1000284** AUXILIARY FILTER KIT

Prerequisites:

Do not apply thread sealant to the hose connections. This makes the hose difficult to remove.

📄 Note: The illustrations in this procedure show the installed configuration.

Standard Coolant Pump - Installation



If the machine has a standard coolant pump:

- Disconnect the coolant supply hose [1], from the pump outlet [2].
- Connect the lower supply hose [3] to the coolant supply hose [1].
- Connect the upper AF hose [4] to the coolant pump outlet [2].
- Close the machine doors and windows.

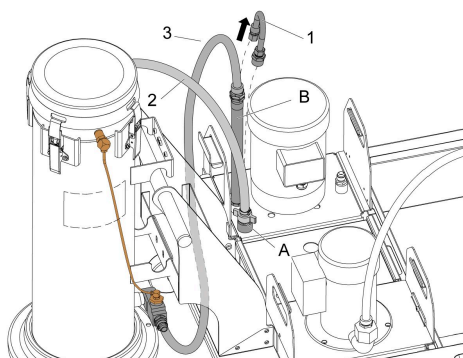
📄 Note: Coolant can splash in the machine.

- Start the coolant pump.
- While the coolant pump is on, open the AF lid.

📄 Note: This pushes the air out of the AF.

- Close the lid when the AF is full.

HPC/TSC-300 Without Auto Clean - Installation



HPC/TSC 300 pump without the Auto Clean pump.


- Remove the coolant return loop [1].
- Install the coolant hose adapter [A] to the 3/4" NPT port.
- Connect the upper AF hose [2] to the coolant hose adapter.
- Connect the 12" (30 cm) pump hose [B] to the 1/2" NPT port in the pump

stand.

- Attach the lower AF hose [3] to the 12" (30 cm) hose [B].
- Close the machine doors and windows.

 **Note:** Coolant can splash in the machine.

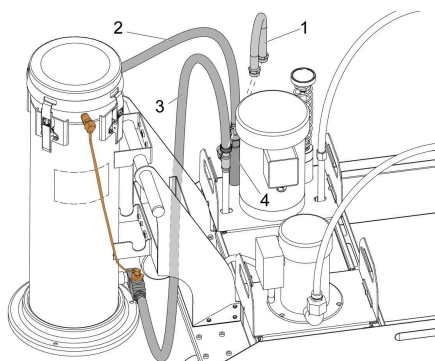
- Start the coolant pump.
- Remove the AF lid while the coolant pump is on.
- Use the wash gun to fill the AF with the coolant.

 **Note:** Be careful Coolant can splash at you when using the wash gun.

 **Note:** This pushes the air out of the AF.

- Install the lid when the AF is full.

HPC/TSC-300/1K with Auto Clean - Installation




HPC/TSC 300 pump with the Auto Clean pump.

- Remove the coolant return loop [1].
- Connect the lower AF hose [3] to the swivel fitting on the outlet pipe.
- Connect the upper AF hose [2] to the stand pipe [4].
- Close the machine doors and windows.

 **Note:** Coolant can splash in the machine.

- Start the coolant pump.
- Remove the AF lid while the coolant pump is on.
- Use the wash gun to fill the AF with the coolant.

 **Note:** Be careful Coolant can splash at you when using the wash gun.

 **Note:** This pushes the air out of the AF.

- Install the lid when the AF is full.

Verification

Operate the standard coolant pump for (5) minutes. Check for leaks.

For maintenance information, refer to [AUXILIARY FILTER - BAG FILTER - REPLACEMENT](#).