



Minimum Lubrication - Reservoir - Replacement

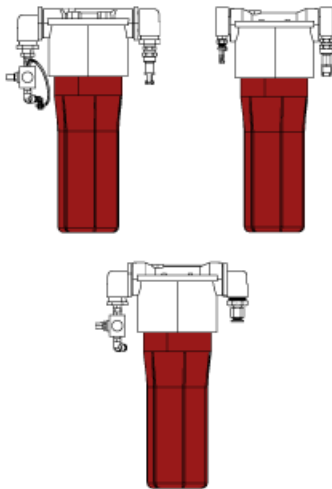
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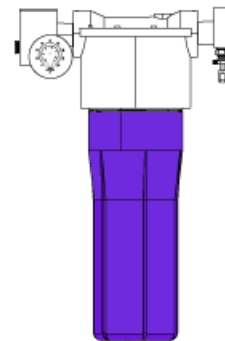
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VMC, HMC, Lathe - Axis-Lubrication Reservoir - Replacement - Introduction

This procedure tells you how to replace the axis-lubrication reservoir.




Red grease, use P/N 93-2599



Haas Liquid Grease (purple), use P/N 93-2601




Caution: Reservoirs and heads are matched sets that must be kept together. Leakage will result if you install a reservoir on a different head.

 **Caution:** When you do maintenance or repair on CNC machines and their components, you must always follow basic safety precautions. This decreases the risk of injury and mechanical damage.

Do these steps before you do work in the machine or in the control cabinet:

- Set the main circuit breaker to the **[OFF]** position.
- Use an approved lock with an approved safety tag. Always follow lock-out procedures in accordance to local government rules.
- After turning off the machine, wait at least 5 minutes before working in the control cabinet, to allow power to dissipate. Wait for the voltage indicator LED on the vector drive to go off completely.
- Always turn off the main air supply when you work on any part of the pneumatic system.
- Make sure to rest the spindle head on a block of wood when work is done on a vertical axis. This will prevent any unintended movement that could result in the axis falling.
- Never alter any safety circuits on the machine.

You should not do machine repair or service procedures unless you are qualified and knowledgeable about the processes. Serious damage to the machine components can result in costly repairs. The service technicians at your Haas Factory Outlet (HFO) have the training and experience, and are certified to do these tasks safely and correctly. The repair and service work performed by your HFO is protected with a limited warranty.



 **Danger:** Some service procedures can be dangerous or life-threatening. DO NOT attempt a procedure that you do not fully understand. If you have any doubts about doing a procedure contact your Haas Factory Outlet (HFO) and schedule a service visit.

Prerequisites

Kit Required:

- AXIS LUBE RESERVOIR RED GREASE SRV ASSY (P/N 93-2599)
- GREASE RESERVOIR ASSY, AIR-LUBE (P/N 93-2601)

Parts Required:

	SRVC GREASE REFILL 72CU-IN, SHC007 - 1QT (P/N 93-1933A) QTY: 1		HAAS LIQUID GREASE REFILL KIT - 1QT (P/N 93-2196A) QTY: 1
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VMC, HMC, Lathe - Axis-Lubrication Reservoir - Replacement

STEP 1



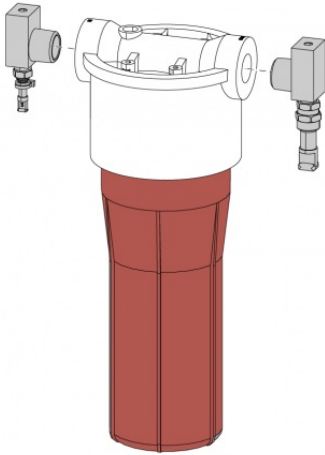
Push **[POWER OFF]**.

Set the main circuit breaker to the **OFF** position. Lock the main circuit breaker. Use an approved lock with an approved safety tag.

Close the primary air valve. This stops the air supply to the machine.

Pull the ring on the pressure relief valve on the air and lubrication manifold. This releases the air pressure from the system.

STEP 2



If the machine uses Haas Liquid Grease (HLG), go to Step 4.

Do Steps 2 and 3 for machines that use red grease.

Disconnect the inlet and outlet hoses from the damaged grease reservoir assembly.

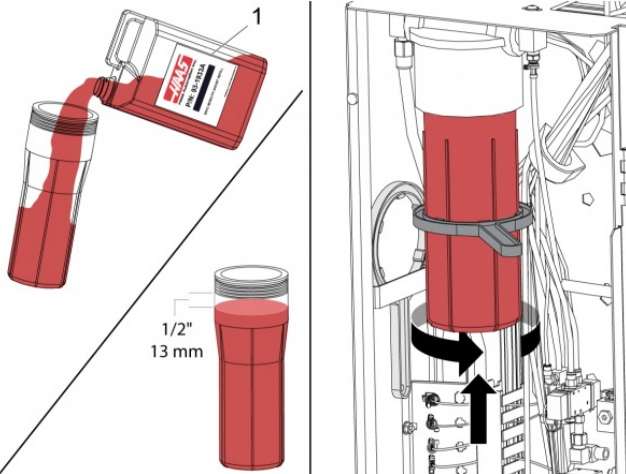
Remove the damaged reservoir assembly from the cabinet.

Remove the inlet and outlet fittings from the damaged reservoir assembly.

Install the inlet fitting and outlet fittings into the new grease reservoir assembly.

Install the new reservoir assembly into the cabinet.

STEP 3



Remove the reservoir from the new reservoir assembly.

Fill the reservoir to about 1/2" (13 mm) below the threads with SRVC GREASE REFILL 72CU-IN, SHC007 [1].

Install the reservoir and tighten it with the wrench.

! **Caution:** The reservoir head has a stop. When you tighten the reservoir, do not try to tighten the reservoir after you feel it stop.

Connect the inlet and outlet hoses.

Set the main circuit breaker to the **ON** position.

 Push **[POWER ON]**.

Open the primary air valve.

Go to the "Axis Lubrication System - Grease Reservoir - Prime and Test" section.

STEP 4

Do Steps 4 and 5 for machines that use Haas Liquid Grease (HLG).

Disconnect the inlet and outlet hoses from the damaged grease reservoir assembly.

Remove the damaged reservoir assembly from the cabinet.

Remove the inlet and outlet fittings from the damaged reservoir assembly.

Remove and discard the used 1/4" OD hose from the outlet fitting.

Pull the new 1/4" OD hose [1] from the port on the head of the new grease reservoir assembly that has the "OUT" label .

Pull the hose until it can firmly connect to the outlet fitting [2].

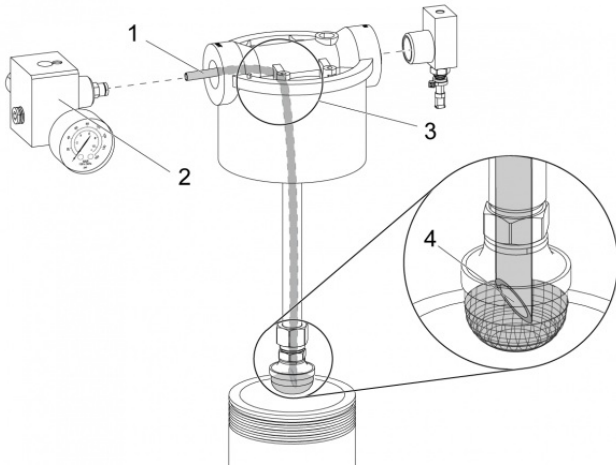
Install the outlet fitting [2] into the new reservoir assembly.

Look at the tip of the hose [4]:

- It must be cut at 45 degrees.
- It must clear the filter screen by approximately 1/16" (2 mm).
- If it is necessary to shorten the hose, cut it at the top.
 - Leave enough hose to make a good connection with the outlet fitting [2].
 - Do not kink [3] the hose.

Install the inlet fitting into the new reservoir assembly.

Install the new reservoir assembly into the cabinet.




STEP 5

Remove the reservoir from the new reservoir assembly.

Fill the reservoir to about 1/2" (13 mm) below the threads with HAAS LIQUID GREASE (HLG) [1].

Install the reservoir and tighten it with the wrench.

 **Caution:** The reservoir head has a stop. When you tighten the reservoir, do not try to tighten the reservoir after you feel it stop.

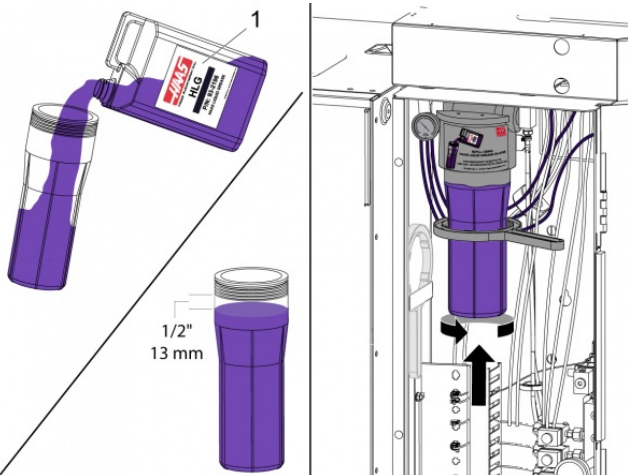
Connect the inlet and outlet hoses.

Set the main circuit breaker to the **ON** position.

 Push **[POWER ON]**.

Open the primary air valve.

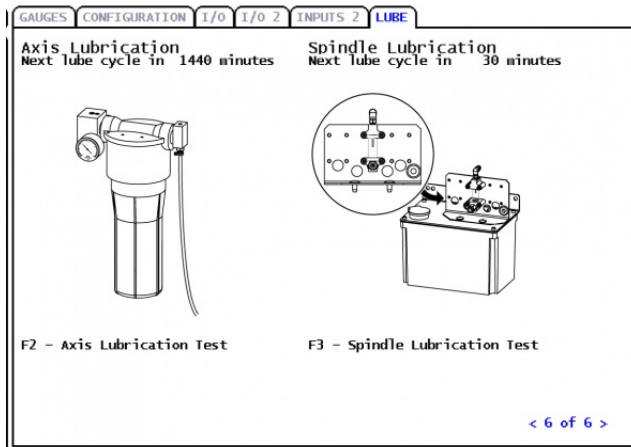
Go to the "Axis Lubrication System - Grease Reservoir - Prime and Test" section.




Axis-Lubrication System - Grease Reservoir - Prime and Test

This procedure tells you how to prime the axis lubrication system.


STEP 1



If the machine has a Classic Haas Control, do these steps:

- Press [**PARAMETER DIAGNOSTIC**] (2) times to show the diagnostics page.
- Press [**CANCEL**].
- Go to the **LUBE** tab.
- Press [**WRITE/ENTER**].
-  Press [**F2**] to start the Axis-Lubrication Test.

If the machine has a Next Generation Control, do these steps:

- Press [**DIAGNOSTICS**].
- Go to the **Maintenance** tab.
-  Press [**F2**] to start the Axis-Lubrication Test.

STEP 2

Do the Axis-Lubrication Test again until you no longer get axis lubrication alarms. Wait a minimum of (1) minute between Axis-Lubrication Test cycles.

Check the level of the grease in the reservoir.

If the grease lines were nearly empty, it may be necessary to refill the axis-lubrication reservoir after you purge the lines of air. Pour the grease into the reservoir: to about 1/2" (13 mm) below the threads on the reservoir.

Conclusion

If air is in the axis lubrication system, alarms can occur. This is not a problem. Alarms can occur for several lubrication cycles after you fill the grease reservoir.