INSTRUCTIONS ON HOW TO CLEAN THE FLUSHING ORIFICE ON A MKT V-22 VIBRATORY HAMMER

Please read through the instructions thoroughly before performing any of the steps.
SAFETY INSTRUCTIONS

The following signal words will be found in this guide and may also be found in the MKT V-22 Operation, Maintenance and Service Manual. These words are intended to alert the operator(s) to a hazard and the degree of severity of the hazard.

- **DANGER**: Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
- **WARNING**: Indicates a hazardous situation which, if not avoided, could result in serious injury.
- **CAUTION**: Indicates a hazardous situation which, if not avoided, could result in minor injury or moderate injury.
- **NOTICE**: Indicates a property damage message.
WARNING: Contents of hydraulic components may be under pressure. Extreme care should be taken when opening the components.

NOTICE: If you do not hear the hissing noise coming from the ¼ hose it is clogged and will need to be clear of the obstruction.

1. Center the clamp close selector switch.
2. Turn off the diesel engine.
3. Remove the ¼ inch hydraulic hose from the 90 degree fitting in the manifold block.
4. Remove the 90 degree fitting from the manifold block.
5. Clear the obstruction in the orifice that is inserted in the 90 degree fitting. If unable to remove the obstruction, replace the 90 degree fitting (MKT part number 4050301).
6. Do not put a standard fitting back without the orifice or damage will occur to your hydraulic motor.
7. Install new or cleaned fitting back into manifold and tighten accordingly.
8. Connect the ¼ hose.
9. Restart the diesel engine.
10. Turn the panel selector switch to panel or remote.
11. Turn the clamp close selector switch to close.
12. Listen for the hissing noise, if you do not hear the hissing noise repeat the above procedure.
CLEANING THE FLUSHING ORIFICE

Center the clamp close selector switch.
CLEANING THE FLUSHING ORIFICE

Center the panel selector knob to off.
CLEANING THE FLUSHING ORIFICE

Turn the Diesel Engine key to the off position.
CLEANING THE FLUSHING ORIFICE

![Image](image.jpg)

**WARNING** Contents of hydraulic components may be under pressure extreme care should be taken when opening the components.

- Remove the ¼ inch hydraulic hose from the 90 degree fitting in the manifold block.
- Remove the 90 degree fitting from the manifold block.
REMOVE THE ORIFICE FROM THE 90 DEGREE FITTING

The 90 degree fitting has an orifice inside of it.

You will need an 1/8 inch Allen wrench to remove the orifice.
REMOVE THE ORIFICE FROM THE 90 DEGREE FITTING

Remove the orifice

Once the orifice has been removed you will need to check for foreign material blocking the hole.
CLEANING THE FLUSHING ORIFICE

NOTICE

When cleaning the orifice do not use a torch tip cleaner or a drill bit because this will enlarge the hole diameter and increase the case pressure of the hydraulic motor.

• First attempt to clean the orifice should be compressed air.

• Second attempt to clean the orifice should be with a piece of wire that fits through the small hole.

• If unable to clear obstruction the entire flushing orifice will need to be replaced. Part # 4050301
CLEANING THE FLUSHING ORIFICE

Install the orifice back into the 90 degree fitting and tighten
CLEANING THE FLUSHING ORIFICE

WARNING

- Contents of hydraulic components may be under pressure extreme care should be taken when opening the components.

- Install the 90 degree fitting back into the manifold block and tighten accordingly.

- Reconnect the ¼" hose and tighten accordingly
CLEANING THE FLUSHING ORIFICE

- To start the diesel engine turn the key to the on position.
- Wait until the light goes out on the Wait to Start Light.
- When the light goes out turn the key to the start position and hold until the engine starts.

**NOTICE**

If engine fails to start in 10 seconds turn the Key to the off position and repeat the above steps.
CLEANING THE FLUSHING ORIFICE

Once you have the diesel engine running verify that you have charge pressure on the Charge Pressure Gauge.

A minimum charge pressure of 150 psi should be visible with the Diesel engine at an idle.
CLEAR THE AREA

Make sure all personnel are clear of the MKT V-22 before proceeding to the next step. Stay clear of jaws at all times.

Standard Clamp

Caisson clamps
CLEANING THE FLUSHING ORIFICE

- Turn the selector knob to panel to operate the MKT V-22 with the panel.
- Turn the selector knob to remote to operate the MKT V-22 with the remote pendant.
CLEANING THE FLUSHING ORIFICE

• Turn the clamp selector switch to close. The switch will latch to close.
• Verify that you have clamp pressure.
• This may take a few seconds for the clamps to close and build pressure.
CLEANING THE FLUSHING ORIFICE

• With the clamp selector switch in the closed position.
• Verify that the flushing orifice is functioning properly.
• You should hear a hissing noise coming from the ¼ inch hose.
• If you do not hear a hissing noise please repeat the previous 15 slides on cleaning the flushing orifice.
CLEANING THE FLUSHING ORIFICE IS COMPLETE

Once you have completed the Flushing orifice Cleaning procedures you are ready to put the MKT V-22 Vibratory Hammer to work. If you have any questions please click on www.mktpileman.com for your nearest MKT representative.