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29 Adding External Shuttle Valve With Orifice To Vibro Excavator Sequence Manifold

Today we will be explaining how to add an external line out shuttle valve and orifice to our sequence manifolds. The reason this needs to happen is because the existing shuttle circuit is sending full drive pressure into the case circuit. The most common side effect from this is the pop off constantly opening.

When we add the external ported shuttle valve, a .020" orifice is added to a 1/2" fitting that is screwed into the new valve. The orifice restricts the volume of oil that can enter the case circuit. This will assist the pop off not opening.



Here is a picture of the external ported shuttle valve. The fitting is screwed into the end. This valve sends the oil out of the fitting instead of through the manifold.

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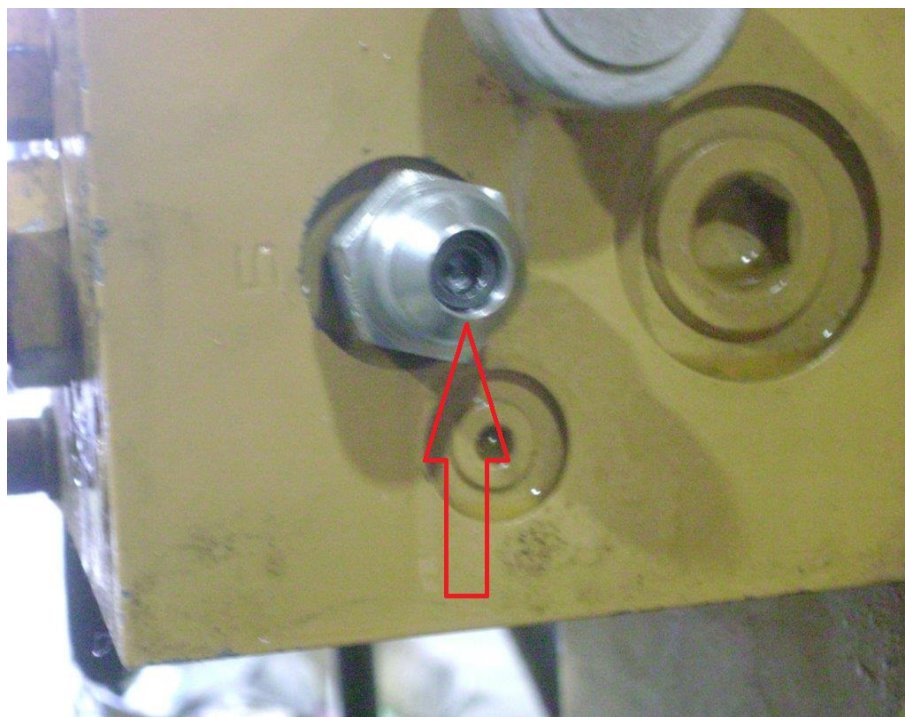
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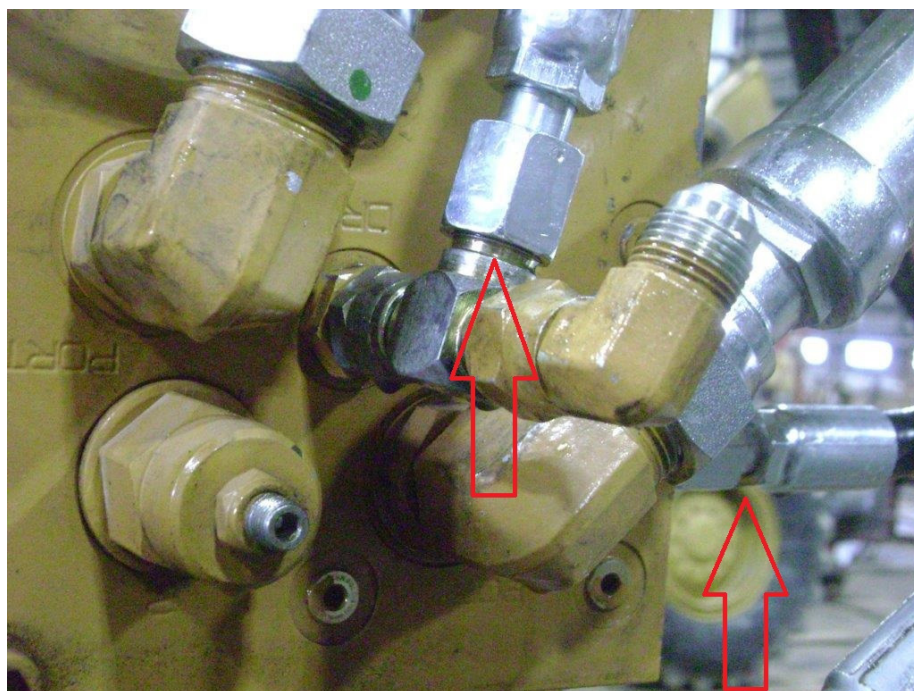
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In this photo you can see the orifice installed.



Here is a tee installed to the case drain port so that the shuttle valve can be externally connected to the case drain circuit. The arrows show the hose ends connected to the shuttle valve and the case drain tee.

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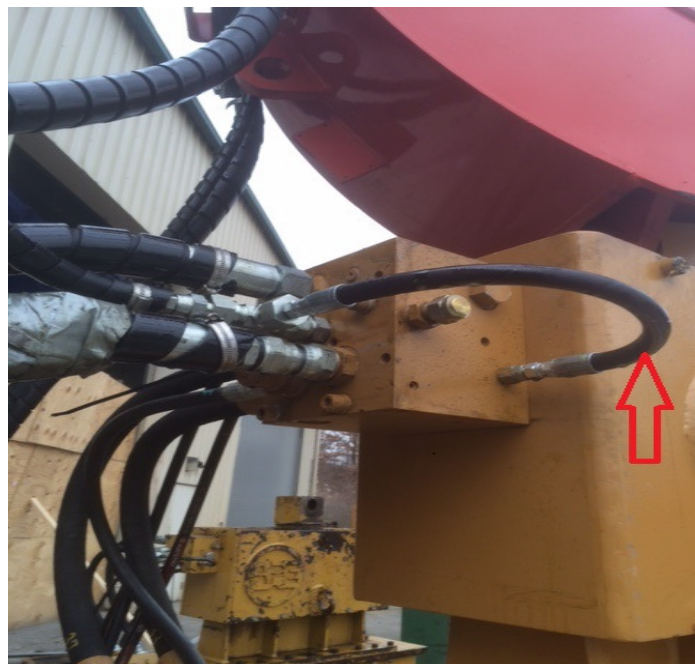
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In this photo you can see the hose attached.



Below is the item number for the kit that includes the Valve, 1/2" Fitting, and Orifice.

1004595-Kit-Shuttle Valve Restriction-(contains 3 items)

Every person sets up an excavator differently. If you know what hose and fittings you need, order them at the same time as the kit, or set it up to your preference.

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