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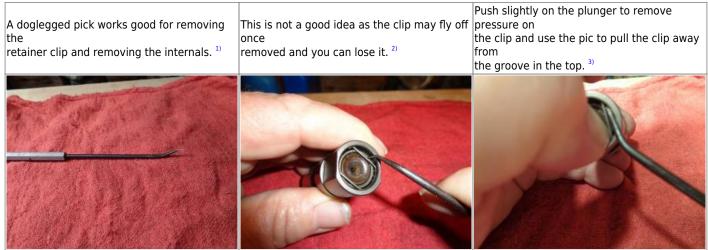
REF: Service Procedures 16

Hydraulic Lifter - Disassembly / Inspection / Assembly

Disassembly

Disassembling a lifter is not very difficult.

The plunger is under slight spring load from the retaining ring when the oil is bled off of the lifter. A pumped up lifter can be bled by removing the check valve on the bottom and pressing a pushrod in the lifter hole.



Now you can remove the clip. You can dump the lifter into a rag to keep from losing parts and the guts may fall out when turned upside down.

Notice the springs natural positioning of the top of the cup. 49





Once the plunger is out, turn the body upside down and let it drain. Pull the plate out if you haven't already. $^{\prime\prime}$







This is the lifter's check valve (some have a plate and spring, others have a ball and spring). The cup pries off with a screwdriver. Careful not to lose the cup or the tiny spring under it.⁸







This plate, spring and cup make up the check valve for this lifter.⁹



Inspection

Visual

Clean all parts inside and out with solvent 10)



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Check for scratching or galling on the inside shoulder of the housing and outside body of the piston.



Check for excessive wear on the outside of the housing. Excess scratches should signal you to check the lifter bore clearance in the case.¹² Wear marks from lifter rising above the anti-rotation pin. ¹³⁾



Mechanical

Specs ¹⁴⁾	New Install	Service Limit
Fit in guide	.0008"0023" .020 mm058 mm	.003" .08 mm
Roller Fit	.0006"0013" .015 mm033 mm	No spec



Assembly

There is a small amount of pressure on the hydraulic lifter plunger holding the top retainer clip in place on a dry lifter.

It can be pushed down with your finger to install the clip.

But with a lifter half or more full of oil, it's harder to work the plunger with your fingers as the pressure behind the plunger is greater.

In fact, it's nearly impossible to assemble a lifter completely full of oil.

If you install the lifter into a holder, that frees up both hands and gives better leverage on the plunger. The holder below is fabbed from a steel sheet and a welded bushing to hold the lifter.

A 2×4 block of wood with a 1" hole drilled into it can also be used to hold the lifter.

Below is a fabbed steel holder.

The block is used to press the plunger down. A spare pushrod or screwdriver can also be used to depress the plunger.





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