

VTX110ci Wax Valve Info with pix on this thread Posted 5/14/2015

<http://www.vtxoa.com/forums/6-vtx-1800-tech-board/332073-idle-speed.html?action=thread>

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Senior Member Join Date: Jan 2015 Location: laVista, ne •

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I am saving this for the VTXOA forum before we lose it. Hans 10/12/2017

<http://www.vtxoa.com/forums/6-vtx-1800-tech-board/332073-idle-speed.html?action=thread#post3570397>

I completely disassembled a wax valve and not what I thought inside. The coolant heats up the housing and there is a pin inside and as it heats up pushes the cylinder you see out. No coolant is behind that cylinder. I'll have to take it apart tonight and post pictures. The pin was stuck, I pulled it out then put it back in reassembled and tested it in water on the stove and operated as it should. I have a spare lying around I can take apart tonight.

Ok, pics of wax valve disassembled. The coolant passes through the back but never is inside the valve. The coolant transfers heat to the brass thing with the pin and as it heats up the pin extends out of it pushing against the threaded rod/pin the valve cylinder is on pushing it out until it is stopped by the pin to control our idle. There's two air holes that when cold and the cylinder is back allows more air into the throttle body allowing for a higher idle. As it moves out it blocks those holes off dropping the idle down to whatever it is set at by the idle adjustment.





