

G503 WWII Jeep Go Devil Engine Valve Adjustment

Over the coarse of time G503 WWII Jeep Go Devil Engine Valve Adjustment is required. You don't need to be a mechanic to do this, but sometimes having an extra pair of hands and eyes would help.



ww.195gpw.com	Ok, now that the cover is off, I removed the PCV line and the exhaust pipe which allowed me to get the cover out. I wiped down around the cover, and made sure I didn't have any drips.
	In order to adjust the valves they have to be in a certain position, so turning the crank will be necessary. I removed the spark plugs to make that an easier chore.
ver.183gpv.cm	It doesn't really matter the order of the valves you are going to adjust, so you can start with any of them in the closed position. The tappet will be all the way down when closed. Have someone turn the crank (clockwise) until your designated valve is in the down position.
Two valves are always in position at the same time I = Intake E = Exhaust I I E 4 E I 3 I E 2 E I www.1945gpw.com	Now, if you think about this, you have 8 valves. 4 are intake, and 4 are exhaust. There are always two valves in position at the same time. The diagram below helps explain this. For example, If I want Cylinder 1 Intake valve to be closed (so I can check the gap .014), then Cylinder 4 Exhaust is in the same position and I can check it. Therefore, you can check two

www.145guw.com	Here you see I am checking the gap of the valve in Cylinder 1 intake. Therefore, Cylinder 4 Exhaust can be checked as well.
	Here is a close up of what you are checking the gap on. According the the TM the gap should be .014 when cold for both intake and exhaust.
www.1945gpw.com	To adjust these, you will need two 1/2in open end wrenches. In my case, I had a bigger gap than I wanted. You place one wrench on the tappet (bottom) and one wrench on the top nut. Then you separate the wrenches to make the gap more narrow. In my case, I needed to bring go from .015 to .014. When I make the adjustment, I check again with the gap tool.
Willys Ford Part Part No. No. 3 637745 GFW-6305 Exhaust Valve 3 637745 GFW-6314 Valve Spring Retainer Lower 4 370046 GFW-6314 Valve Spring Retainer Lower 5 637715 GFW-6305 Valve Spring Retainer Lower 7 37610 GFW-6305 Valve Tappet Charance Spring 9 659015 GFW-63250 Camshalt Bushing-Front 10 637005 GFW-63250 Camshalt Bushing-Front	(TIP by Pete Silfven) Adjusting valve clearance when the tappet is worn cupped and it can't be done with a feeler gauge. The tappet thread is 24 threads per inch. To find out how much the tappet adjuster moves in one revolution, divide 1.000 by 24. This gives a movement of almost .042" per revolution.





Replace the fender and components and you are done. The complete task will take about 4hrs.