

Workshop 5

Adjusting the Tappets

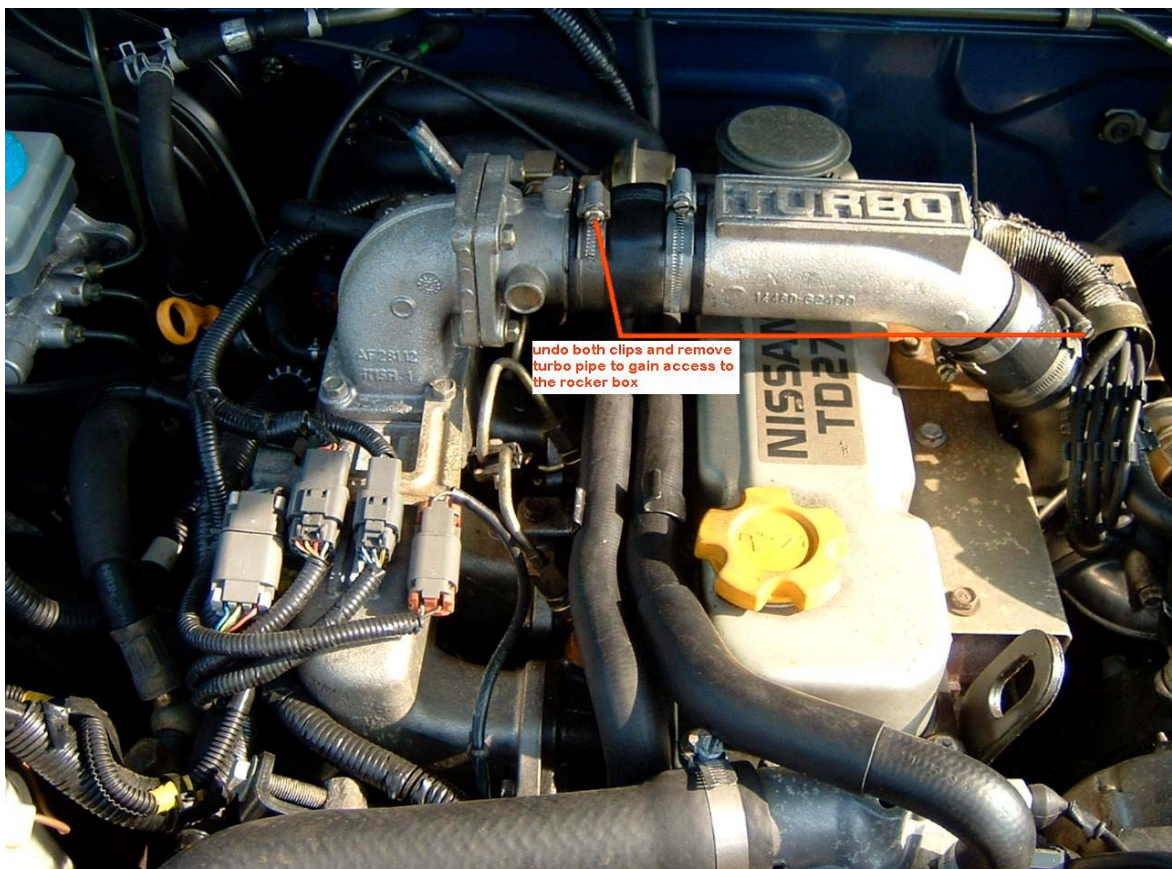
TD27B Engine

Fault: Noisy rattle from top of engine.

Repair: Inspect and adjust rocker arm gaps.

The main cause of top end engine rattle is when the rockers strike face naturally wears, and the gap between the rockers and valve stems widen, the procedure then is to adjust the gaps back to the manufactures specified gaps,

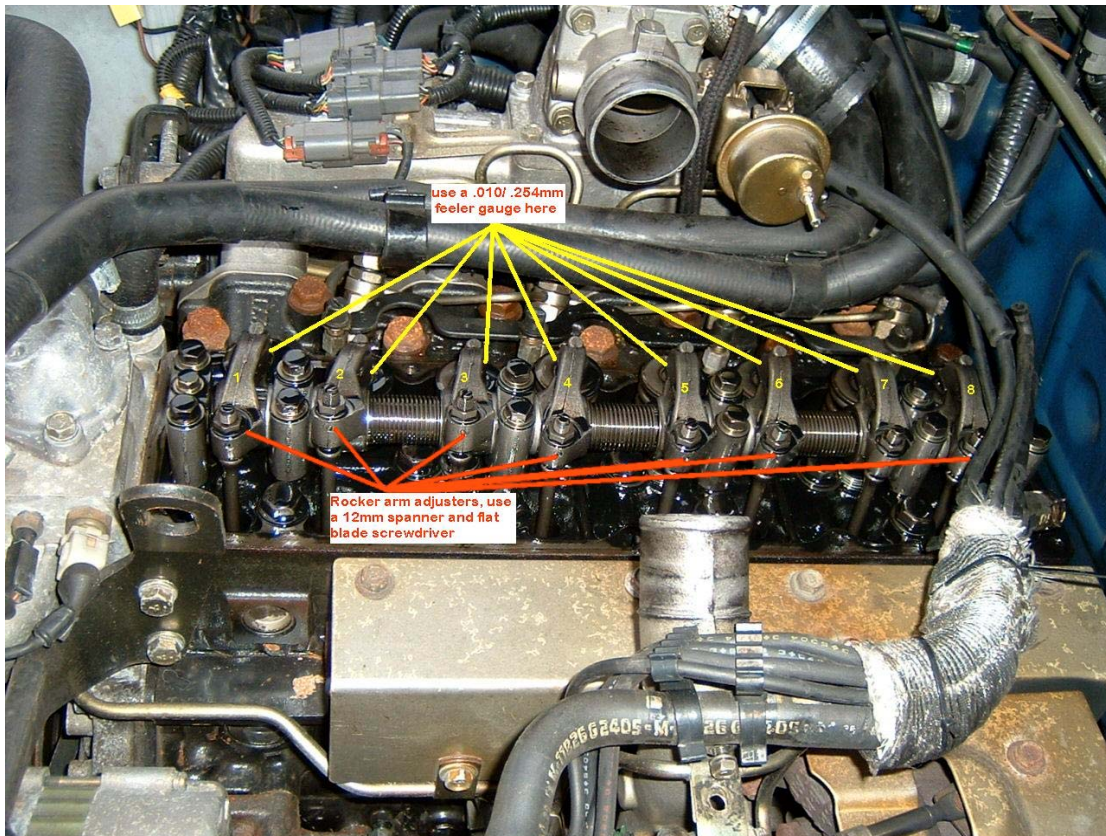
Start by removing the two jubilee clips at each end of the turbo air ducting pipe as shown.



Next remove the ten bolts from the rocker box which are 10mm and remove the rocker box to reveal the rocker shaft and rocker arms.



Next turn the engine clockwise using the 19mm top pulley nut until the number one piston (Radiator end of rocker shaft) is at top dead centre stroke, you will find rockers number 1,2,3 and 6 are able to move freely and can be adjusted to .010/ .254mm feeler gauge gap, if adjustment is needed, undo the 12mm rocker nut and turn the adjuster with a flat blade screwdriver until the gap is achieved, once all four rockers have been adjusted turn the engine again until piston number four is at top dead centre stroke and rockers 4,5,7 and 8 are free rocking, then check and adjust these as you did the other four with the same feeler gauge size, make sure all 12mm nuts on rockers are tight and re-check gaps before replacing rocker box and turbo air duct in reverse order.



Written and produced
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