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BORED OUT & POLISHED THROTTLE BODY TO SUIT HOLDEN VN-VT

FITTING INSTRUCTIONS



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PART 1 – REMOVING THE OLD THROTTLE BODY

The Holden Noncotec (VN-VR) throttle body is located in the position shown below



Step 1 – Loosen the hose clamp & pull off the hose leading into the throttle body.





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Step 2 – Repeat for the other end leading into the air box. Remove completely the inlet pipe to make more room.



Step 3 – Pull off the 3 hoses indicated with the red dot.





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Step 4 – There are 2 electrical plugs that need to be removed showed in the positions below.



These plugs are removed by bending downwards the retainer clip at the bottom & then pulling the whole clip out.



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Step 5 – There are 2 nuts that fasten the throttle body to the inlet as shown below.



Loosen & remove these nuts

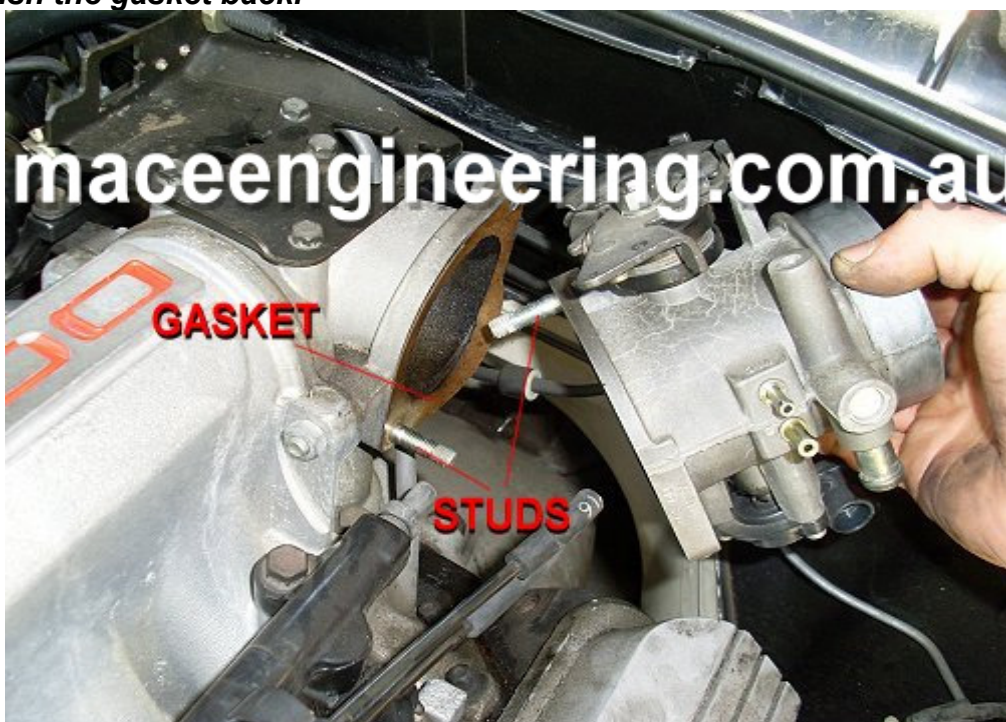


The nut at the top will have enough room to come off once you start sliding the throttle body off in the direction shown.



Step 5 –Once the nuts are off, the throttle body can be removed from the inlet.

IMPORTANT - Remove the throttle body from the inlet very slowly while holding the gasket back with your fingers. There are 2 studs holding the throttle body onto the inlet. One belongs to the throttle body itself, the other to the inlet. Both these studs go through the gasket so removing the throttle body will tend to pull the gasket apart possibly ripping it. This can be avoided by slowly removing the throttle body while simultaneously using your fingers to push the gasket back.





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Step 6 – To remove the throttle cable off the throttle body, begin to unwind it as shown below.





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Step 7 –After unwinding the cable, the tip should slide out of its seat.





Step 8 – The final step in removing the throttle body is pulling off a hose that plugs into the back.





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PART 2 – STRIPPING OLD THROTTLE BODY & TRANSFERRING TPS & IAC

The throttle position sensor (TPS) and IAC valve must be removed from the old throttle body and transferred onto the new one.



Step 1 – Loosen the screws holding the TPS and remove it.





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Take special care not to lose the small rectangular plastic sleeve that comes off the end of the shaft (circled in red above). Note that a small proportion of earlier throttle bodies may not have these at all. If your throttle body does not have one, it can be purchased from Holden for under \$5.

The head of the screws are a Torx.



Step 2 – Loosen the screws and remove the IAC valve.



Ensure that the O-ring is removed from the throttle body and put back on the IAC valve (it may come out already attached to it).





Step 3 – Attach the TPS and IAC valve to the new performance throttle body using the reverse of the procedure just described.



PART 3 –INSTALLING THE NEW PERFORMANCE THROTTLE BODY

Install the new performance throttle body using the reverse of the procedure described in Part 1.

PART 4 –RESET THE CAR COMPUTER

Step 1 – Disconnect the positive terminal of the car battery. Wait for 30 seconds.



Step 2 – Turn the car on and rev to 2000 r.p.m. Hold for 20 seconds.

Installation is now complete.