

VACUUM PUMP [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

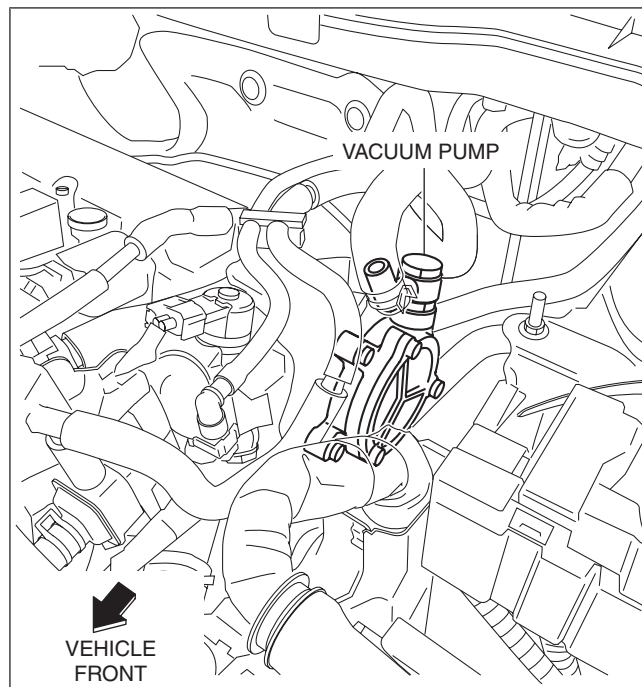
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Purpose, Function

- Ensures vacuum required for braking force to compensate for the decrease in intake manifold vacuum applied to the power brake unit caused by the retard intake valve closing.

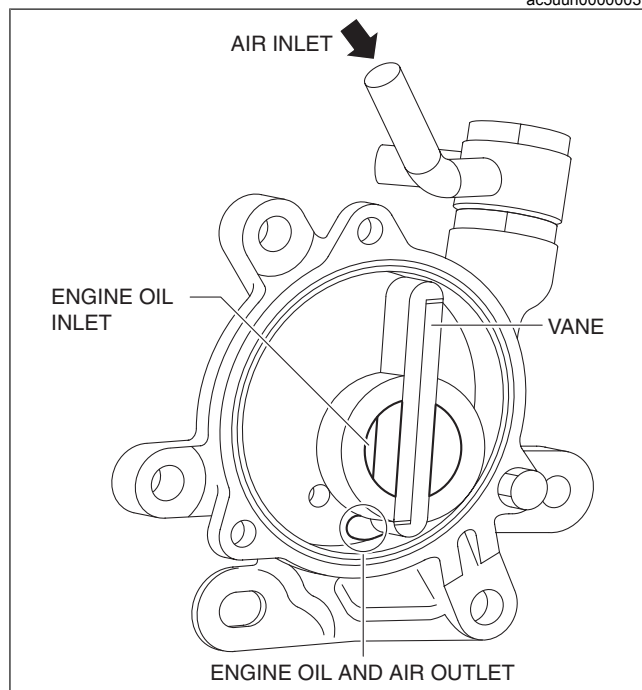
Construction

- The vacuum pump is installed to the rear housing.



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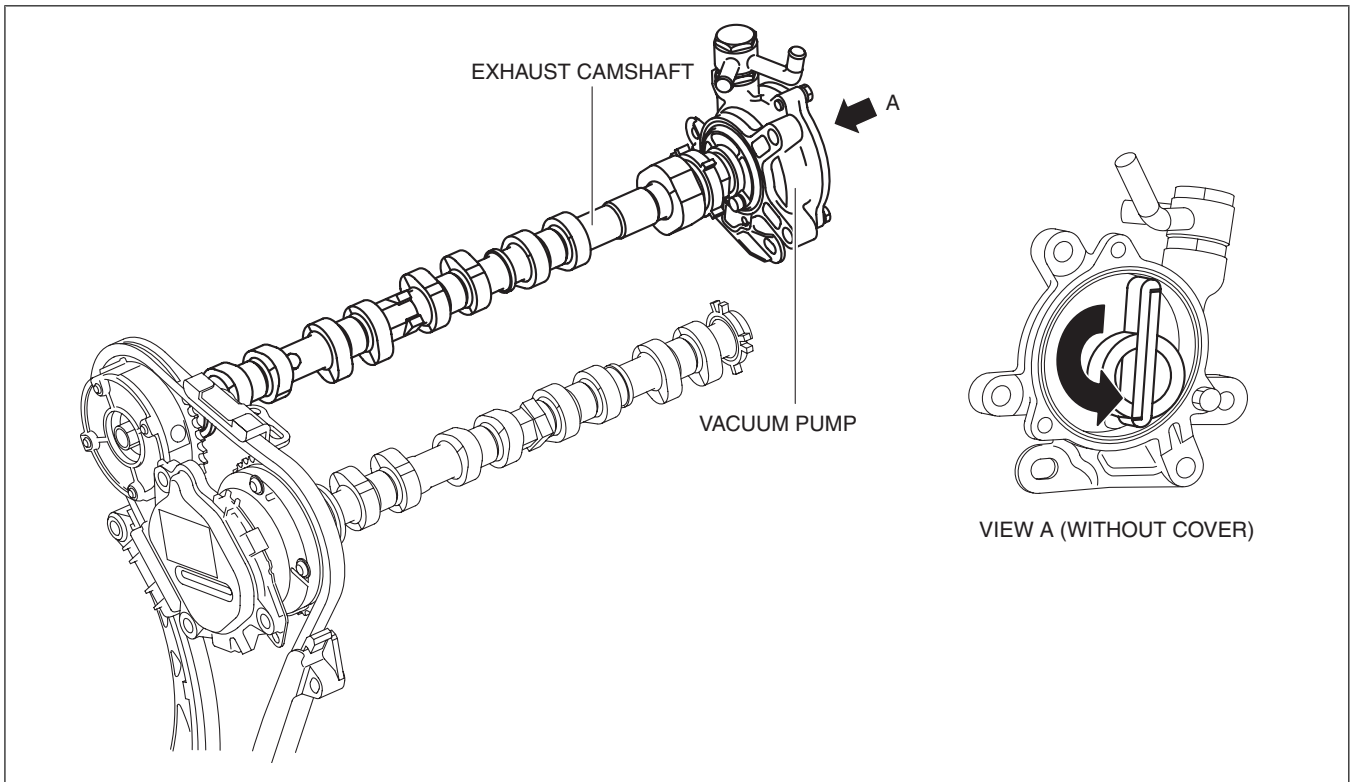
- For smooth vane rotation, a single-vane type vacuum pump has been adopted which is equipped with an engine oil lubrication passage.



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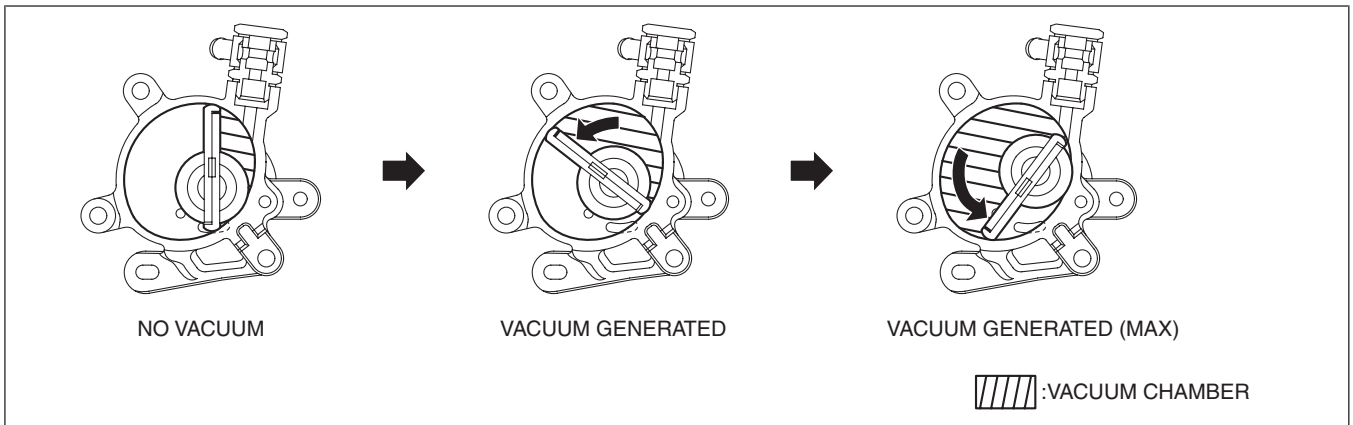
Operation

- Because the vacuum pump is directly engaged with the exhaust camshaft, the vane in the vacuum pump rotates together with the exhaust camshaft, and the vacuum chamber is expanded and vacuum is generated.



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Vacuum generation mechanism



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