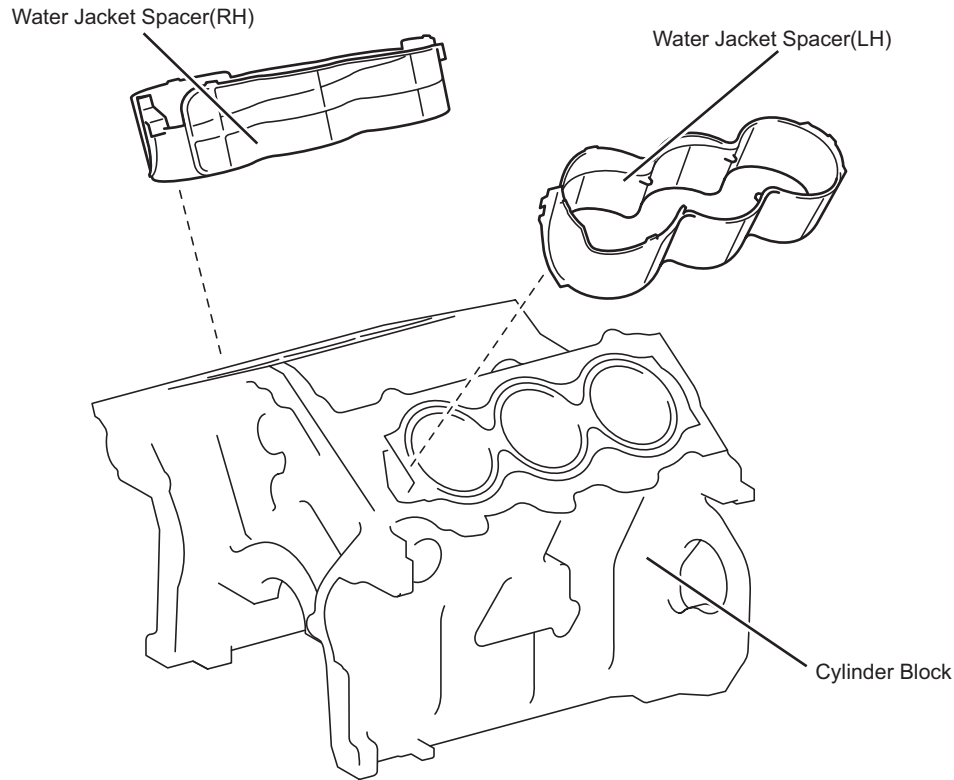


Water Jacket Spacer

- A water jacket spacer made of plastic, which excels in heat resistance and forming precision, is provided in the water jacket of the cylinder block. This optimizes heat distribution along the cylinder bore wall and reduces friction.



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Function of Water Jacket Spacer

The water jacket spacer suppresses the water flow in the center of the water jacket. This increases the flow speed of the coolant along the upper part of the cylinder bore, thus improving the cooling of the upper area of the cylinder block and between the cylinder bores. Furthermore, the area near the center of the cylinder bore becomes less susceptible to the influences of the coolant, allowing the temperature along the wall surface to rise. These measures decrease the temperature differences along the surface of the cylinder bore wall and enable uniform thermal expansion. In addition, these measures lower the viscosity of the engine oil that adheres to the surface of the bore wall, thus reducing friction.