

Water Pump Technical Data

Water Pump Technical Information

Note: If you are using a mechanical fan, make sure the fan is balanced before bolting it to the water pump or it could damage the pump seal or loosen the fan hub. For vehicles running electric fans, you should only use the electric fan during cautions. There should be enough air coming through the grill opening to cool the engine at race speeds.

SBC Water Pump Mounting Boss Height

Water pump mounting bosses from the factory typically have large variations in the spot facing. This makes it harder to align your pulleys and brackets. KRC's High Performance water pump (KRC 15101001) features CNC machined mounting bosses. This ensures proper belt alignment of all pulleys, brackets and belts when using KRC components. If you are not using a KRC water pump you will need to check the height of your mounting bosses.

Place the water pump on a flat surface. Then place a caliper through the mounting bolt holes until the caliper touches the flat surface and the top of the mounting boss, see Photo 1. Refer to Photo 2 for KRC 15101001 mounting boss heights. If your pump does not match the KRC water pump height, you may have to adjust for the differences.

If the height of one of your water pump bosses is higher than the KRC height, you will either have to spot face the mounting boss with a .875" spot face to the proper KRC height, or subtract the difference from the spacers included with your bracket.

If the height of one of your water pump bosses is lower than the KRC height, you will have to add washers or machine custom spacers to obtain the difference in height.

Water Pump Length

To check the length of your water pump do the following.

- 1) Set the water pump on a flat surface. Then place a straight edge over the water pump flange. (For Ford Water pumps the back water pump plate, gasket and bolt must be removed to measure height.)
- 2) With a set of calipers, measure from the flat surface to the bottom edge of the straight edge.

Small Block Chevrolet:

KRC's High Performance water pump (KRC 15101001) has a water pump height of 5.795" with a 3/4" shaft. All of KRC's small block Chevrolet pulley kits are designed for this length water pump.

If you have a water pump that is shorter than 5.795", we have a few options that will allow you to still use a KRC serpentine pulley system. If you have a 5.595" water pump with a 5/8" shaft, you can use KRC 15050200 water pump pulley spacer, or a KRC 15001000 water pump spacer, to obtain proper alignment with a KRC pulley system. We also offer a R-LOK crank adapter that is designed to work with a 5.595" water pump, part number KRC 40200200.

If you have a 5.545" water pump with 5/8" shaft, you can use a KRC 15050250 water pump pulley spacer, or a KRC 15002000 water pump spacer, to obtain the proper alignment with a KRC pulley system.

Small Block Ford:

All of KRC's 302ci. and 351ci. pulley kits are designed for a 5.700" long water pump.

Small Block Dodge:

All of KRC's 340ci. and 360ci. pulley kits are designed for a 5.547" long water pump.