



## CASETHEPOINT

Many Power Steering Pumps appear similar to the untrained eye. In some cases the only difference is the size of the Drive Pulley. At BGA we make it a "Key Point" to ensure that for every reference that is supplied with a pulley, the catalogue clearly states the size of the pulley and the number of ribs. However measuring a pulley isn't as obvious as it seems!

## GETTINGITRIGHT

At BGA we always strive to arm our customers with the key information to order and fit the right part first time. The two key points for the identification of the correct Power Steering Drive Pulley are:

- The diameter of the working area of the pulley
- The number of Ribs on the working area of the pulley

Different suppliers of Power Steering Pumps quote different dimensions as you will see from *Diagram 1a* and *Diagram 1b*, it is critical that you are using the correct measurement as stated in *Diagram 1b*. The critical dimension is on the working area, where the belt runs, it seems logical but often you find the outside to outside dimension being quoted. As you can see the dimension can be very different.

When checking the number of ribs on a pulley, ensure that you are quoting the area, see *Diagram 2*. BGA state the number of indentations on the pulley which matches with the Drive Belt. For example a 5 Rib pulley will fit with a 5PK Drive Belt.

## GETTINGITWRONG

Fitment of the wrong size pulley can lead to complications with the Power Steering System and with the Drive Belt system.

- *Pulley too Large* – If you manage to get the belt on in the first place, it will be greatly over tensioned, putting excess strain on the belt and the other components within the Drive system and shortening their life expectancy. If the pulley is too large, it means that the pump will be running a slower speed, meaning that you have a reduction in steering assist.
- *Pulley too Small* – A smaller pulley will mean that the belt you are putting increase strain on to the components within the system and shortening their life expectancy. A small pulley will make the pump run too quickly and will over supply the Power Steering System, providing too much assist, making the steering feel light. Symptoms of a loose belt will also include a loud squealing sound when applying full lock.

## POWER STEERING PUMPS



Diagram 1a



Diagram 1b



Diagram 2



BGA products are to be replaced by an experienced automotive installer. This information is to be used as reference only. Always seek manufacturer specification.

