

# Technical Bulletin

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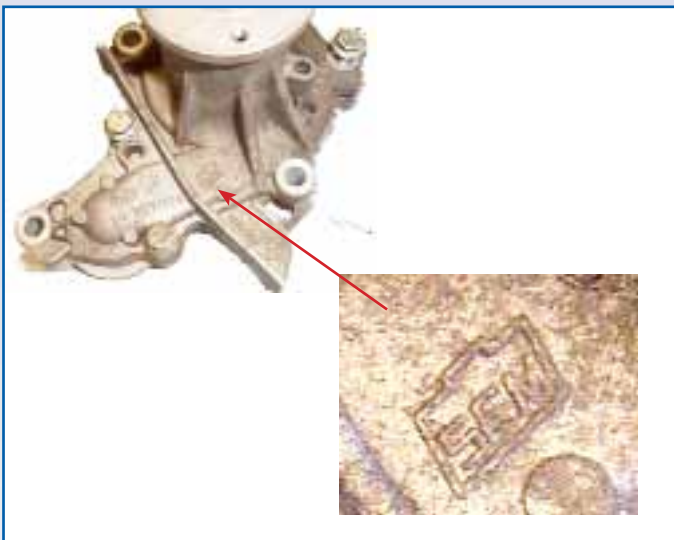
**Toyota Carina E and Avensis Water Pumps**  
**ADT39145 (Aisin) & ADT39177 (SEM) - 7AFE 1.8 engine**  
**ADT39143 (Aisin) & ADT39159 (SEM) - 4AFE 1.6 engine**  
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Blue Print catalogue a choice of water pump after specific manufacturing dates on the Carina E (AT190 & AT191) and the Avensis (AT221) models. These dates reflect two different pump manufacturers being used by Toyota on their European built models (Aisin from Japan or SEM from Europe).

**The ADT39143 and ADT39145 pumps will contain the front casing only, and must only be fitted to the Aisin type rear casing.** If fitted to an SEM type rear casing, the retaining bolts will not fit correctly and water will leak from the gasket.

**If you are unable to identify the manufacturer of the water pump to be replaced, ADT39159 and ADT39177 are supplied complete with front and rear casings pre-assembled.**

**These part numbers will replace all manufacturers.**



**The original SEM type pump** can be identified by the manufacturer's mark on the outer casing (see picture)



Side profile of the replacement SEM type pump with the front and rear casings pre-assembled.

**Please ensure that the correct Blue Print application is used when identifying the above references.**

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