

This page describes how to fit an alternator other than the standard Hitachi brand as fitted to most Yanmar YM, 3 and 4 series engines.

In order to achieve this task an additional bracket is required to be made up out of threaded bolt stock.

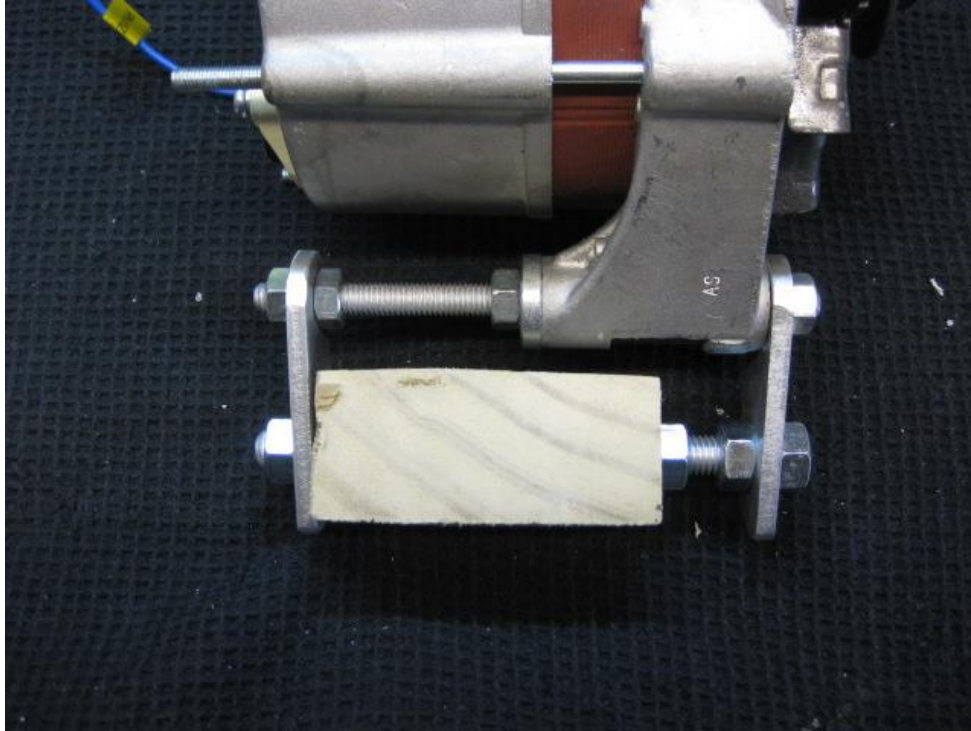


Photo 1: shows completed bracket.

The block of wood shows the engine mount location which is 80mm wide.

You can see that the alternator can now be moved fore and aft to align the belt drive correctly.

43mm from front of mount to centre of pulley seems to suit most installations.

We carry the brackets in stock as this is a popular modification

On the BOSCH alternator, D+ is to excite the alternator, failure to do so will not get any charge, ***this is the single most thing DIY's get wrong***



Photo 2: shows a Bosch 120-amp alternator running on a Yanmar 4jh3e engine

Your existing Hitachi alternator will have a white plug into the back of the alternator, the two wires need to be cut from the plug and connected as per below instructions.

Plug connection on existing plug: (the manufacturer chops and changes colours so it pays to check)

Red/black – Tacho, put to W on Bosch alternator

Blue / Black – Ignition light – put to D+ on Bosch alternator.

Now is a good time to throw out the standard Yanmar tension bracket and purchase from the likes of Bunnings a turn barrel and with the aid of spacers configure this as your tensioner system.