

## Electric Machinery And Transformers Irving L Kosow | 4cad3663d448fbe379f1f8cc53c990b4

FB20 Subaru Engine Synchronous motor - Wikipedia(PDF) Electric Machinery Fundamentals (4th Edition) EJ20G Subaru Engine

For the GC/GM Impreza WRX, the EJ20G engine had a water-cooled, Mitsubishi TD05 turbocharger; the rotational speed of the turbine ranged from approximately 20,000 rpm to 150,000 rpm and peak boost is understood to be around 11 to 12 psi. To prevent excessive boost pressure, which could cause knocking and heavier thermal loads on the pistons, the EJ20G engine had a wastegate valve.

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A synchronous electric motor is an AC motor in which, at steady state, the rotation of the shaft is synchronized with the frequency of the supply current; the rotation period is exactly equal to an integral number of AC cycles. Synchronous motors contain multiphase AC electromagnets on the stator of the motor that create a magnetic field which rotates in time with the oscillations of the line

Subaru's FB20 was a 2.0-litre horizontally-opposed (or 'boxer') four-cylinder petrol engine. Effectively replacing the EJ204 engine, the FB20 engine was a member of Subaru's third generation 'FB' boxer engine family which also included the FB25, FA20D, FA20E and FA20F engines. The FB20 engine first offered in Australia in 2012 Subaru GP/GJ Impreza.

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