



10. Rotate the crankshaft counterclockwise by 30° to align the yellow mark on the crankshaft sprocket with the assembly surface (horizontal surface) of the cylinder block and bearing cap. (No. 1 cylinder piston compression TDC position)



11. On the camshaft sprocket to the exhaust camshaft gear with the timing chain "W" aligned with the camshaft sprocket timing mark (B) and the high pressure fuel pump sprocket timing mark (A).

Tightening torque :

14.7 ~ 19.6 N.m (1.5 ~ 2.0 kgf/m, 10.8 ~ 14.3 ft-lb)



12. Install the timing chain "W" guide (A).

Tightening torque :

9.8 ~ 11.8 N.m (1.0 ~ 1.2 kgf/m, 7.2 ~ 8.7 ft-lb)



NOTICE

- Do not reuse the timing chain tensioner lever and guide (B) both.

13. Install the timing chain "W" and tensioner (A) and then remove the set pin.

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JA Banks



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this paper proposes the design and implementation of a microcontroller based single phase automatic voltage regulator avr the basic building blocks for this design include a pic 16f 628 microcontroller a triac a step up transformer a zero crossing circuitry and a load voltage sensing circuitry

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