N04C-TQ, N04C-TT AND N04C-TU ENGINES

■ DESCRIPTION

- The N04C-TQ, N04C-TT and N04C-TU engines are newly developed in-line 4-cylinder, 4.0-liter, 16-valve OHV engines.
- A common-rail system and a turbocharger with intercooler are used to provide high output and good fuel economy.
- On the N04C-TQ engine, a DPF (Diesel Particulate Filter) system is used to realize clean exhaust emissions.
- On the N04C-TU engine, an oxidation catalytic converter is used to realize clean exhaust emissions.

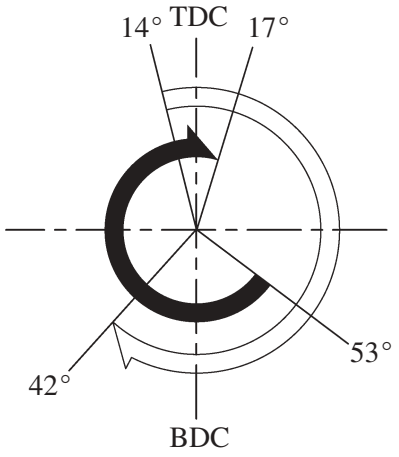
▶ Engine Specifications ◀

Engine Type			N04C-TQ	N04C-TT	N04C-TU
No. of Cyls. & Arrangement			4-cylinder, In-line	←	←
Valve Mechanism			16-valve, OHV, Gear Drive	←	←
Combustion Chamber			Direct Injection	←	←
Manifolds			Cross-flow	←	←
Fuel System			Common-rail Type	←	←
Displacement cm^3 (cu. in)			4009 (244.6)	←	←
Bore x Stroke mm (in)			104.0 x 118.0 (4.09 x 4.65)	←	←
Compression Ratio			18.0 : 1	←	←
Max. Output			110 kW @ 2700 rpm*1	110 kW @ 3000 rpm*2	100 kW @ 2700 rpm*2
Max. Torque			397 N·m @ 1800 rpm*1	392 N·m @ 1600 rpm*2	358 N·m @ 1800 rpm*2
Valve Timing	Intake	Open	14° BTDC	←	←
		Close	42° ABDC	←	←
	Exhaust	Open	53° BBDC	←	←
		Close	17° ATDC	←	←
Turbocharger			Variable Nozzle Vane Type	Wastegate Valve Type	Variable Nozzle Vane Type
Fuel Cetane Number			48 or more	←	←
Firing Order			1 – 3 – 4 – 2	←	←
Emission Regulation			EURO IV	EURO III	US04
Engine Service Mass*3 (Reference) Kg (lb)			387 (853)	373 (822)	380 (838)

*1: EEC
*2: SAE-NET
*3: Weight shows the figure with oil and water fully filled.

▶ Valve Timing ◀

: Intake Valve Opening Angle
: Exhaust Valve Opening Angle



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