



## Atomic Performance Products®

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### Installation instructions and specifications for #306800, #306801, #306802, #306810 and #306811 Competition Valvesprings.

Thank you for purchasing a set of Atomic Competition Valvesprings. They have been manufactured using premium quality materials, machined to the highest standards and undergo numerous pre and post production checks to ensure these standards are maintained. To enjoy trouble free operation ***it is imperative*** the correct installation procedures are followed. Failure to follow these instructions may lead to failure of the component and/or damage to the engine.

#### **Step 1**

Remove the springs from their packaging and check the correct number of springs are included – 24. If not, please contact Atomic directly on (02) 8665 5889.

#### **Step 2**

Check the springs are all the same approximate height. The tolerance is +/- .020”.

#### **SPRING SPECIFICATIONS**

Part Number	To suit	Type of spring	Free Length	Tension	Tension @ .500” lift
#306800	DOHC	Conical - single	2.150”	80lbs @ 1.490”	160lbs
#306801	DOHC	Conical - single	2.030”	82lbs @ 1.490”	170lbs
#306802	DOHC	Conical -single	2.150”	103lbs @ 1.490”	200lbs
#306810	SOHC AU	Straight - dual	2.390” outer	125lbs @ 1.780”	290lbs
#306811	SOHC EB-	Straight - dual	2.390” outer	125lbs @ 1.780”	290lbs

**NOTE:** It is the responsibility of the installer to ensure the correct spring is used for the particular application. Consideration must be given when the cylinder head, valves and/or valve seats have been machined. **It is not recommended that a straight wound spring be used in DOHC engines as premature fatigue will result.** If in doubt, please call Atomic direct.

#### **Step 3.**

All Atomic springs for DOHC engines are CONICALLY wound, as per the factory spring design. This is to provide the correct spring pressures whilst fitting both the spring base (larger diameter at bottom) and the factory spring retainer (smaller diameter at top) correctly. Install the springs in this manner, using the appropriate retainer to achieve the desired tensions.

#### **Step 4.**

When installing #306810 springs on AU SOHC cylinder heads, it is NOT necessary to machine the valve guide boss – the inner springs are specifically designed to fit on top of the guide boss.

If you encounter any problems whatsoever with the installation of our springs or have any questions about DOHC or SOHC Ford 6 cylinder engines in general, please call Atomic direct - we are here to help!

The Team at Atomic