

1D



Valve Spring Inspection

Refer to [Valve / Valve Spring Removal and Installation](#).

The force of the coil spring keeps the valve seat tight. Weakened spring results in reduced engine power output and often accounts for the chattering noise coming from the valve mechanism. Check the valve springs for proper strength by measuring its free length and also by the force required to compress it. If the spring length is less than the service limit or if the force required to compress the spring does not fall within the range specified, replace spring as a set.

Special Tool

(A): [09900-20102](#)

Valve spring free length (IN. & EX.)

Service limit: 39.6 mm (1.56 in)

Valve spring preload when compressed to 35.6 mm (1.40 in) (IN. & EX.)

Standard: 197 – 227 N (20.1 – 23.1 kgf, 44.3 – 51.0 lbf)

