

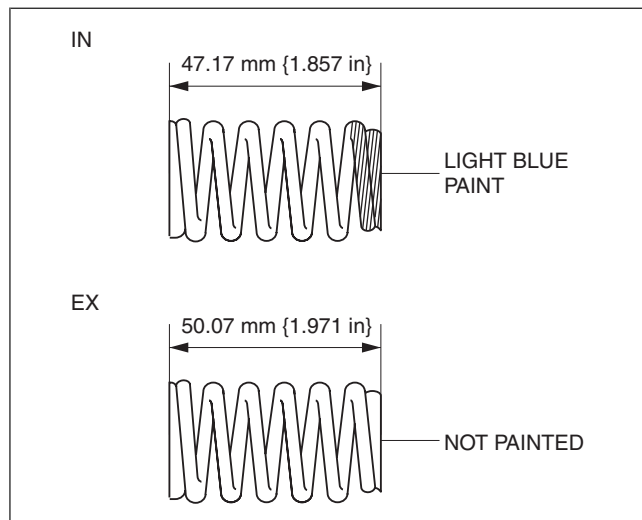
VALVE SPRING INSPECTION

id011000501400

Caution

- The valve springs differ depending on the IN and EX sides. Therefore, verify the free length or identification paint beforehand and inspect the valve springs.

SKYACTIV-G 2.0



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SKYACTIV-G 2.5

1. Measure the valve spring height using the spring tester.
 - If it is not within the specification, replace the valve spring.

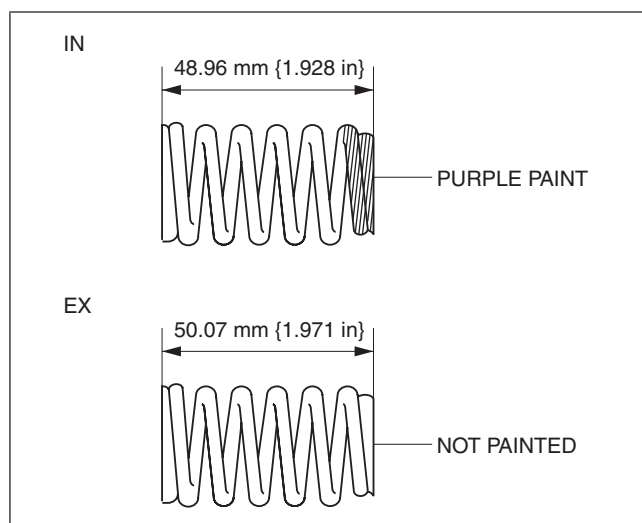
Valve spring installation height [SKYACTIV-G 2.0]

IN: When pressurized with spring force of 190—210 N {19.4—21.4 kgf, 42.8—47.2 lbf}, spring height is 38.0 mm {1.50 in}

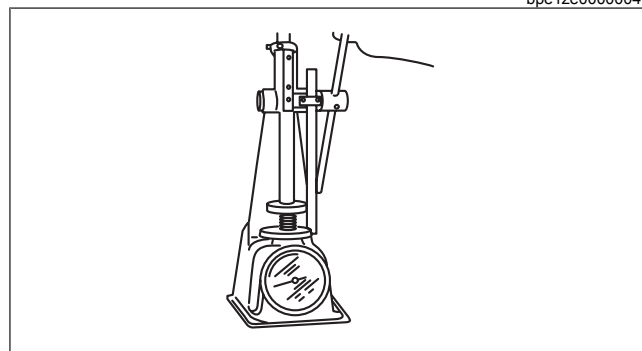
EX: When pressurized with spring force of 228—252 N {23.3—25.6 kgf, 51.3—56.6 lbf}, spring height is 38.0 mm {1.50 in}

Valve spring installation height [SKYACTIV-G 2.5]

When pressurized with spring force of 228—252 N {23.3—25.6 kgf, 51.3—56.6 lbf}, spring height is 38.0 mm {1.50 in}



bpe1ze00000041



bp31je00000053

2. Measure the amount of off-square on the valve spring using a square.

(1) Rotate the valve spring one full turn and measure A at the point where the gap is the largest.

- If it exceeds the maximum specification, replace the valve spring.

Maximum valve spring off-square [SKYACTIV-G 2.0]

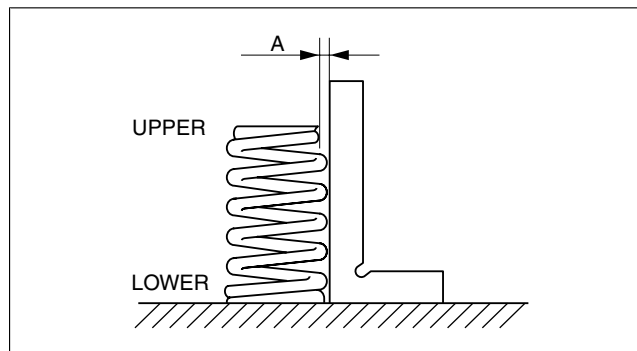
IN: 2.0 ° (1.6 mm {0.063 in})

EX: 2.0 ° (1.7 mm {0.067 in})

Maximum valve spring off-square [SKYACTIV-G 2.5]

IN: 2.0 ° (1.7 mm {0.067 in})

EX: 2.0 ° (1.7 mm {0.067 in})



beltze00000017