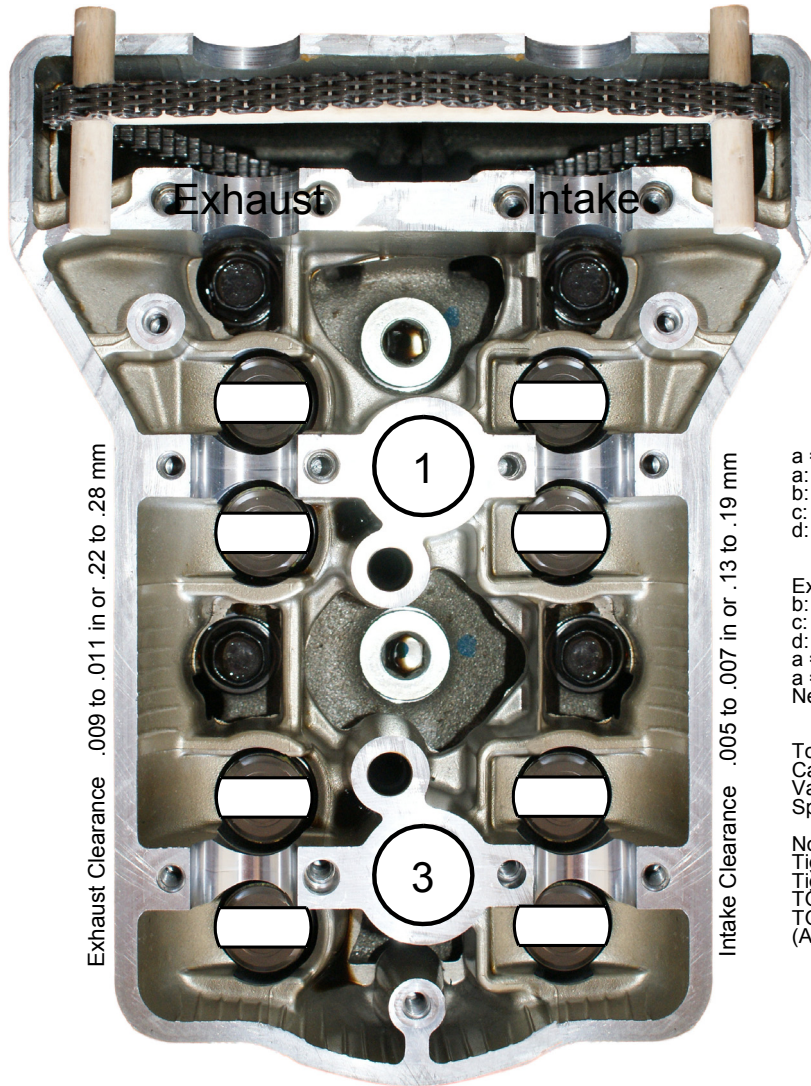


ST1300 Valve Clearance Worksheet



Exhaust Clearance .009 to .011 in or .22 to .28 mm

Intake Clearance .005 to .007 in or .13 to .19 mm

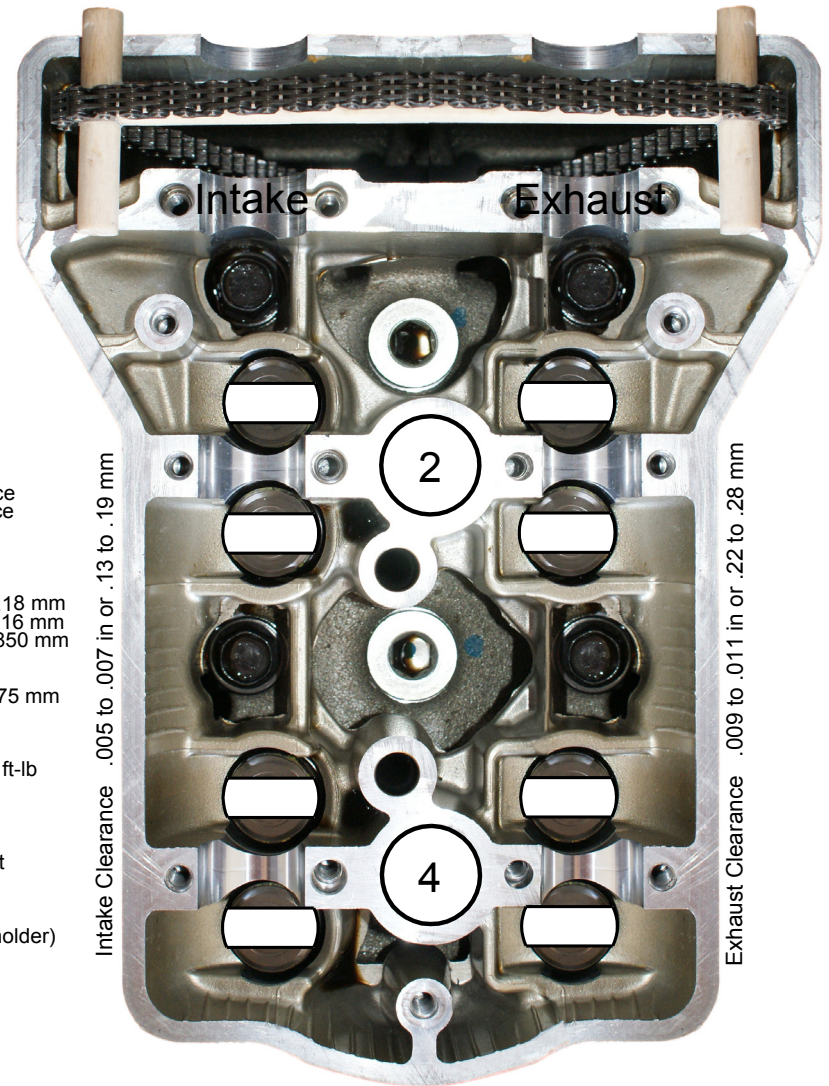
Calculations

$a = b - c + d$
 a: new shim thickness
 b: recorded valve clearance
 c: specified valve clearance
 d: old shim thickness

Example
 b: recorded clearance = 0.18 mm
 c: specified clearance = 0.16 mm
 d: old shim thickness = 1.850 mm
 $a = 0.18 - 0.16 + 1.850$
 $a = 1.870$
 New shim thickness = 1.875 mm

Torque
 Camshaft Holder Bolts: 9 ft-lb
 Valve Cover Bolt: 7 ft-lb
 Spark Plugs: 12 ft-lb

Note
 Tighten the 8 "A" bolts first
 Tighten the 4 "B" bolts
 TORQUE the 8 "A" bolts
 TORQUE the 4 "B" bolts
 (A is the larger camshaft holder)



Intake Clearance .005 to .007 in or .13 to .19 mm

Exhaust Clearance .009 to .011 in or .22 to .28 mm

1) Rotate Crank CCW to T1, #1 @ TDC
 L-EX & L-IN lined up outboard
 check cylinder #1 (left front)

2) Rotate Crank CCW 1/4 turn to T2
 R-EX & R-IN lined up inboard
 check cylinder #4 (right rear)

3) Rotate Crank CCW 3/4 turn to T1
 L-EX & L-IN lined up inboard
 check cylinder #3 (left rear)

4) Rotate Crank CCW 1/4 turn to T2
 R-EX & R-IN lined up outboard
 check cylinder #2 (right front)

