Desmodue Valve Adjustment Shim Calculations

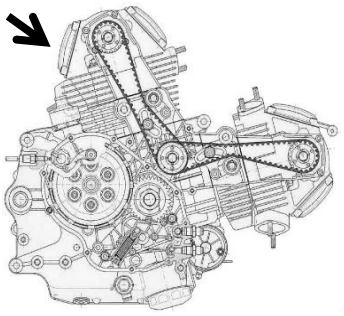
Bike: S2R800 | Mileage: 9,000 (5750) | Matrix S2R - 2006 Engine #RAA6013461

Owner: Vince | Date: 4/23/2017

Conversion charts	Value	Converted
Metric to **English**	**0.100**	**0.004**
English to **Metric**	**0.004**	**0.102**

Required for calculations Input recommended shim clearance	Opener shim (mm)	Closer shim (mm)
	0.101	0.050
	0.150	0.050
	0.050	0.000

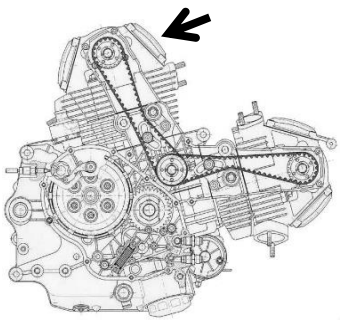
Vertical cylinder exhaust valve



Input values in blank cells		
STEP 1 Measured gap values	Unloaded Gap	Loaded Gap
	0.130	0.200
STEP 2 Current shim size	Opener shim	Closer shim
	4.350	6.850
STEP 3 Actual shim used	Opener shim	Closer shim
	4.400	6.890
STEP 4 Measured gap values	Unloaded Gap	Loaded Gap
	0.080	0.130

Calculated information	Opener shim	Closer shim
Result of step 1 Actual GAP values	0.130	0.070
Recommended shim	**4.379**	**6.870**
Estimated clearance with new shim installed	0.080	0.030
Result of step 4 New actual gap	0.080	0.050

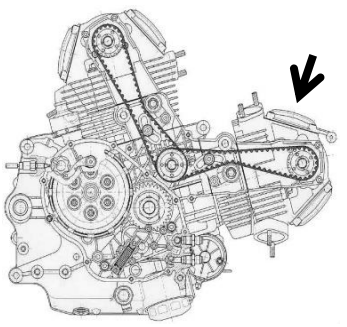
Vertical cylinder intake valve



Input values in blank cells		
STEP 1 Measured gap values	Unloaded Gap	Loaded Gap
	0.100	0.150
STEP 2 Current shim size	Opener shim	Closer shim
STEP 3 Actual shim used	Opener shim	Closer shim
STEP 4 Measured gap values	Unloaded Gap	Loaded Gap

Calculated information	Opener shim	Closer shim
Result of step 1 Actual GAP values	0.100	0.050
Recommended shim		
Estimated clearance with new shim installed		
Result of step 4 New actual gap		

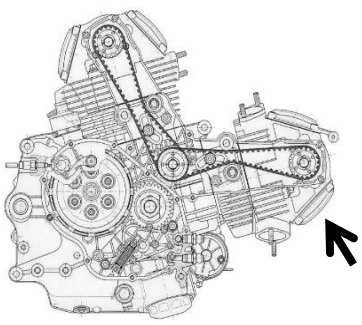
Horizontal cylinder intake valve



Input values in blank cells		
STEP 1 Measured gap values	Unloaded Gap	Loaded Gap
	0.100	0.150
STEP 2 Current shim size	Opener shim	Closer shim
STEP 3 Actual shim used	Opener shim	Closer shim
STEP 4 Measured gap values	Unloaded Gap	Loaded Gap

Calculated information	Opener shim	Closer shim
Result of step 1 Actual GAP values	0.100	0.050
Recommended shim		
Estimated clearance with new shim installed		
Result of step 4 New actual gap		

Horizontal cylinder exhaust valve



Input values in blank cells		
STEP 1 Measured gap values	Unloaded Gap	Loaded Gap
	0.130	0.200
STEP 2 Current shim size	Opener shim	Closer shim
	4.300	6.880
STEP 3 Actual shim used	Opener shim	Closer shim
	4.350	6.890
STEP 4 Measured gap values	Unloaded Gap	Loaded Gap
	0.090	0.150

Calculated information	Opener shim	Closer shim
Result of step 1 Actual GAP values	0.130	0.070
Recommended shim	**4.329**	**6.900**
Estimated clearance with new shim installed	0.080	0.060
Result of step 4 New actual gap	0.090	0.060