



Figure 3-64. Measuring Running Clearance of Piston

ASSEMBLY

| PART NUMBER | TOOL NAME |
|--------------|----------------------|
| SNAP-ON PRS8 | PISTON RING EXPANDER |

Checking Piston Ring Gap

NOTES

- Always use new piston rings. Piston rings take a definite set and must not be reused if the engine has been operated. Always deglaze (or hone) the cylinder before installing new rings. Ring sets are available to fit oversize pistons.
 - Insufficient ring gap may cause the ends to abut at engine operating temperatures, resulting in ring breakage, cylinder scuffing and/or piston seizure.
 - Excessive ring gap results in high oil consumption and blow-by of exhaust gases. Blow-by contaminates the oil supply and leaves sludge in the crankcase. It also reduces engine efficiency by weakening the combustion seal necessary for efficient transfer of energy to the piston.
1. See [Figure 3-65](#). Check ring end gap of each ring before placing on the piston. Insert the new ring into the cylinder and square it in the bore using the top of the piston.

Measure the ring end gap with a feeler gauge. Refer to [Table 3-40](#).

NOTE

Ring end gap dimensions also apply to oversize rings. Replace ring if end gap exceeds specification. If end gap is under specification, filing is permissible.

WARNING

Compressed air can pierce the skin and flying debris from compressed air could cause serious eye injury. Wear safety glasses when working with compressed air. Never use your hand to check for air leaks or to determine air flow rates. (000061a)

2. Use compressed air to remove any dirt or dust that may have settled in the oil drain holes and piston ring grooves.

Table 3-40. Piston Ring End Gap

| PISTON | | IN. | MM |
|---------------|------------------|-------------|-------------|
| Twin Cam 96™ | Top compression | 0.010-0.020 | 0.254-0.508 |
| | 2nd compression | 0.014-0.024 | 0.356-0.610 |
| | Oil control ring | 0.010-0.050 | 0.254-1.27 |
| Twin Cam 100™ | Top compression | 0.012-0.022 | 0.305-0.559 |
| | 2nd compression | 0.015-0.025 | 0.381-0.635 |
| | Oil control ring | 0.010-0.050 | 0.254-1.270 |



Figure 3-65. Measuring Ring Gap

Installing Piston Rings

1. See [Figure 3-66](#). Apply clean H-D 20W50 engine oil to three piston ring grooves.
2. Install expansion ring (4) into third ring groove.
3. Spiral bottom oil rail (5) into space below expansion ring (4). Position gap 90 degrees from the gap in the expansion ring.
4. Spiral top oil rail (3) into space above expansion ring (4). Position gap 180 degrees from the gap in the bottom oil rail.

Harley Davidson 2012 Flstc Service Manual

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