

8-10. Piston Ring

8-10-1. Description

Carbon deposits in the piston ring grooves cause the rings to stick, which cause damage to the piston rings, blow-by of compression, loss of engine power and overheating. The K10P and K11P use keystone type piston rings tapered 7° on the upper surface which prevent carbon accumulation and will not stick. Piston rings move in and out of the grooves on the piston because of the shaking of the piston and the movement past cylinder ports. The side clearance between the piston ring and ring groove remains constant with an ordinary piston ring. Carbon and other foreign matter can clog ring grooves, causing the rings to stick. With a keystone type ring, however, the side clearance is changed continually from C_1 to C_2 as the ring moves in and out in the groove and scrapes carbon out of the ring groove. This prevents ring sticking. The piston top ring is chrome-plated for higher resistance to wear and second ring is parkerized for easier fitting to the cylinder. The top ring is light and second one is dark in color and both rings are tapered.

8-10-2. Removing

Expand the ends of the ring with both thumb nails and remove the ring over the top of the piston from the opposite side. Be careful not to break the rings or damage the piston surface.

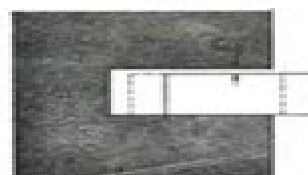
8-10-3. Inspecting

A. End gap

If the piston ring end gap is too large compression leaks, increasing fuel consumption, causing poor acceleration, hard starting, etc. If it is too small the ring ends butt against one another and the ring scores the cylinder wall and in the worst case, seizes the engine.

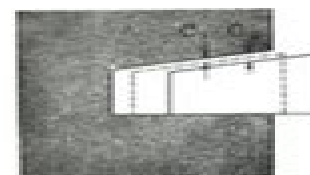
	Standard	Limit	Operation
End gap	0.1—0.3 mm (0.004— 0.012 in)	1.0 mm (0.040 in)	Replace

Ordinary Ring



Ordinary Ring

Keystone Ring



Keystone Ring

Fig. 8-10-1 Difference between keystone and ordinary rings.



Fig. 8-10-2 Piston rings

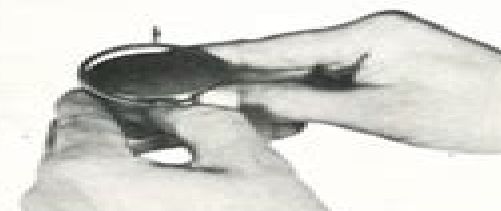


Fig. 8-10-3 Removing piston ring



Fig. 8-10-4 Inserting piston ring into cylinder

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SB Merriam

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the 'SB Merriam' text.

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