



Ring-to-Groove Clearance

After installing a new set of rings, measure ring-to-groove clearances:

Top Ring Clearance

Standard (New):

D15Z3 engine:

0.035–0.060 mm (0.0014–0.0024 in)

Except D15Z3 engine:

0.030–0.060 mm (0.0012–0.0024 in)*1

0.030–0.055 mm (0.0012–0.0022 in)*2

Service Limit: 0.13 mm (0.005 in)

Second Ring Clearance

Standard (New):

D15Z3 engine:

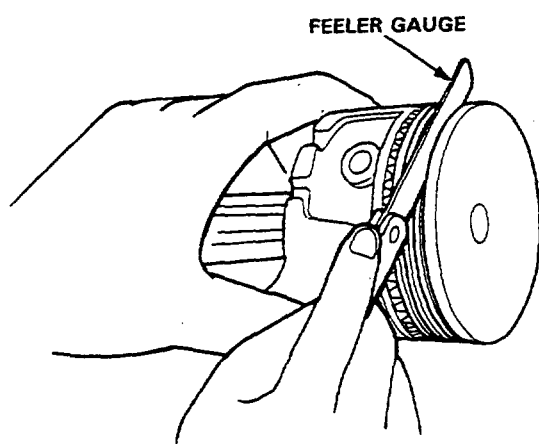
0.030–0.055 mm (0.0012–0.0022 in)*1

0.030–0.060 mm (0.0012–0.0024 in)*2

Except D15Z3 engine:

0.030–0.055 mm (0.0012–0.0022 in)

Service Limit: 0.13 mm (0.005 in)



*1: RIKEN manufactured piston ring

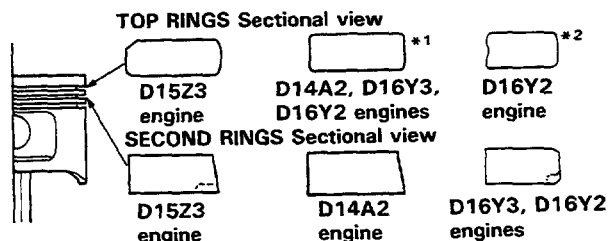
*2: TEIKOKU PISTON RING manufactured piston ring

Alignment

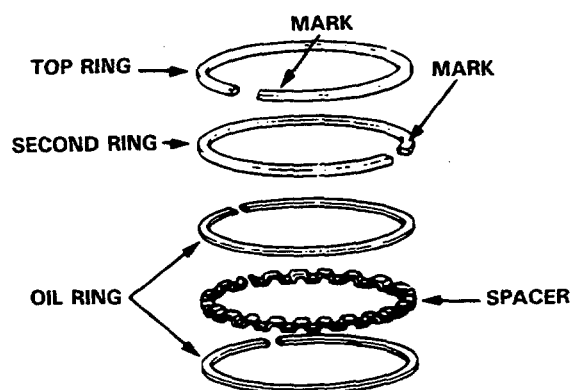
1. Install the rings as shown.

Identify top and second rings by the chamfer on the edge, and make sure they are in proper grooves on piston.

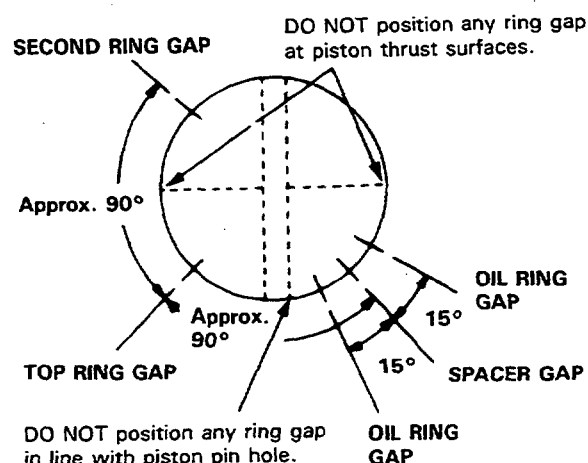
NOTE: The manufacturing marks must be facing upward.



2. Rotate the rings in grooves to make sure they do not bind.



3. Position the ring end gaps as shown:



*1: RIKEN manufactured piston ring

*2: TEIKOKU PISTON RING manufactured piston ring