merCruiser
STERN DRIVES & INBOARDS

service bulletin

TO: SERVICE MANAGER ☐ TECHNICIANS ☐
PARTS MANAGER ☐

No. 96-10

Piston Ring End Gap

Models

MCM/MIE D3.0L, D3.6L and D4.2L MerCruiser Diesels

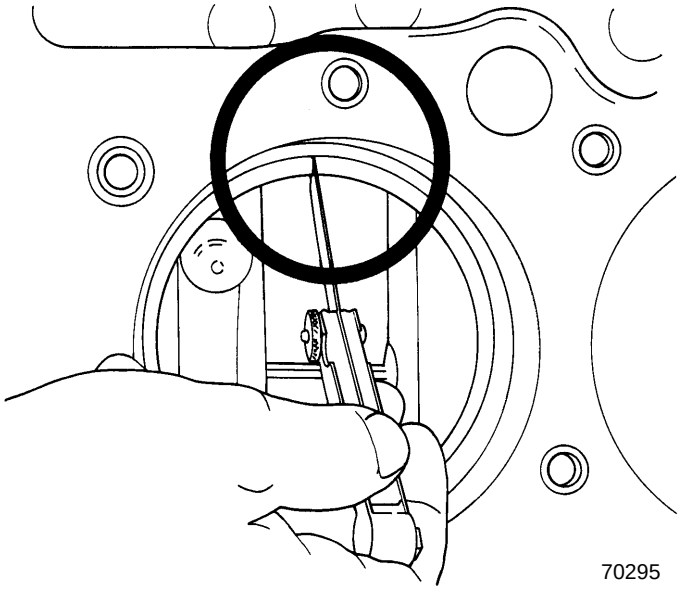
Situation

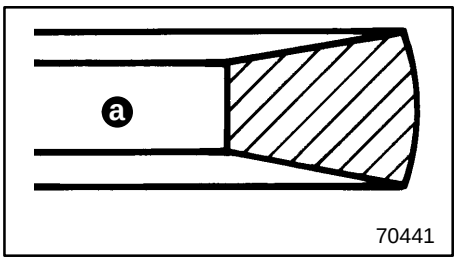
Due to a change on the top compression ring only, from a typical style ring to a trapezoidal design, the piston ring end gap specifications have changed.

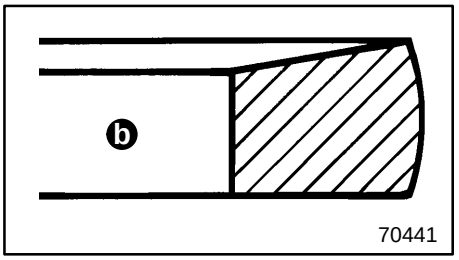
Correction

The correct piston ring end gap specifications for first compression ring is .010-.020 in. (.25-.50 mm).

To measure ring gap, slip compression ring in cylinder bore about 1/4 in.(6 mm) below ring travel. Use the dome of the piston to square the ring in the cylinder bore. Measure gap between ends of ring with a feeler gauge as shown.







d - Trapezoidal design
e - Typical design

Measure ring gap between ends of ring with a feeler gauge as shown. If gap between ends of ring is below specifications, remove the ring and try another for fit. Fit each compression ring to the cylinder in which it is going to be used.

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