McCULLOCH

# SERVICE BULLETIN # 1143

SUBJECT: USE OF CORRECT TYPE RINGS IN 2-CYCLE ENGINES

MODEL ALL

DATE 8/15/61

When installing piston rings in a McCulloch Chain Saw or Kart Engine, make sure the rings are designed for 2-Cycle operation. Installing rings designed for 4-Cycle operation will result in ring breakage and possible cylinder damage.

A 2-Cycle piston ring is designed to have low outward pressure at the ring points or ends (see figure 1).

This low outward pressure at the ring ends provides clearance for the port openings and prevents the rings from snagging in the ports.

A ring designed for 4-Cycle operation will have the same outward pressure completely around the circumference of the ring, including the ring ends (see figure 2). When a 4-Cycle ring is used in a 2-Cycle engine, the outward pressure on the ring ends causes the ends to snag in the ports, breaking the ring.

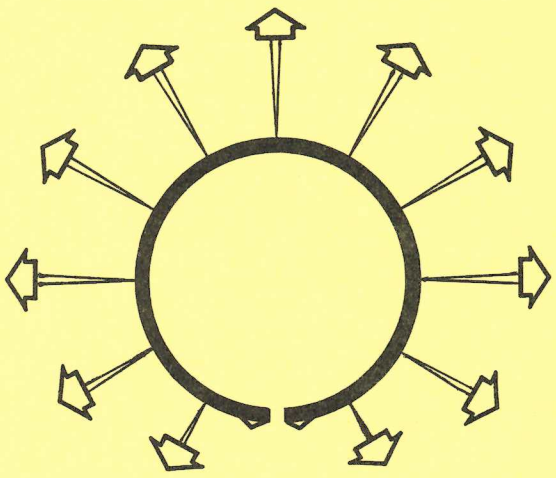


FIGURE 1. 2-Cycle Ring.
Low outward pressure at ring ends.

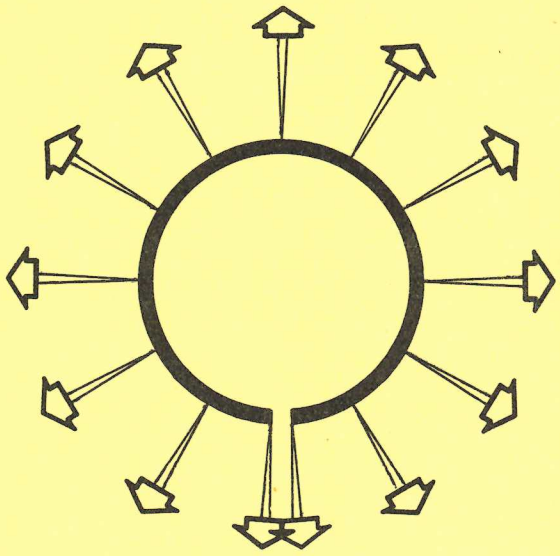


FIGURE 2. 4-Cycle Ring.
The outward pressure is the same, including the ring ends, for full circumference of the ring.

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