

# Small Gas Engine: Assembly Procedures

## Dead Center

extreme top or bottom of the piston stroke

## Flywheel

disc shaped part bolted to the end of the crankshaft; starter drive engages the ring gear, turning the flywheel, which rotates the crankshaft, imparting the initial starting motion to the engine

## Piston Ring

open ended ring which fits into the groove on the outer diameter of the piston; key function is to form a seal between the piston and cylinder wall; most pistons have three rings: two for compression sealing and one for oil sealing

## Shim

spacer of precise, predetermined thickness used between parts to establish a proper working relationship; used to increase the space between two locations or lift a part to a desired location

## Sparkplug

device installed into the combustion chamber of a spark ignition engine; basic construction is a conductive core inside of a ceramic insulator, mounted in an outer conductive base; electrical charge from the spark air gap to a grounding point or points at the end of the conductive base causes a spark that ignites the fuel/air mixture in the combustion chamber

## Top Dead Center (TDC)

point at which the piston reaches the top of its travel inside the cylinder

## Torque

twisting force applied to an object, such as a bolt or screw, which is used to fasten parts to an engine; torque specifications are provided by the manufacturer for various parts and their fasteners