

RE-POWERING GUIDELINES

If replacing a Briggs & Stratton® engine with another Briggs & Stratton engine, use the original engine's model and type numbers to assure the correct replacement. If replacing a competitor's engine with a Briggs & Stratton engine, let the engine size and features of the original engine, plus the expected work cycle, guide you in selecting the correct replacement. Also consider these factors:

1. ENGINE SELECTION

Match the engine's performance and cost to your specific application to get the optimum performance at an affordable price. That means better value for you.

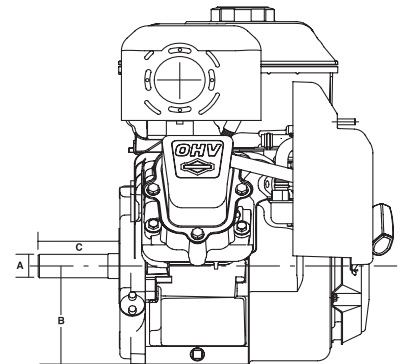
- **Vanguard™ OHV** (overhead valve) engines are maximum performance, cast iron sleeved engines.
 - select for continuous heavy duty applications.
- **Professional Series™, Commercial Series** (Industrial/Commercial) engines are cast iron sleeved.
 - select for medium duty commercial, industrial and rental use.
- **Intek™ and Powerbuilt™** engines are aluminum cylinder bore OHV engines.
 - select for general consumer use.
- **Standard** engines are aluminum cylinder bore, side valve engines.
 - select for general consumer use.

2. ENGINE INSTALLATION

It is important to maintain the original engine's size, starter type and position, fuel tank location, fuel line routing, muffler location, exhaust direction and muffler accessories (i.e., deflector, spark arrester, etc.). Reinstall all guards, shields and safety devices. Replace missing, worn or damaged parts.

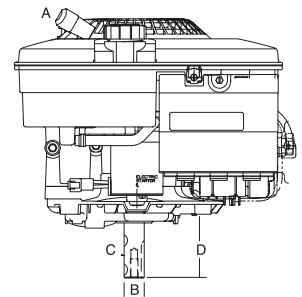
3. HORIZONTAL CRANKSHAFT ENGINES

- Compare the overall engine size to avoid possible mounting interference
- Match the crankshaft
 - A - Diameter
 - B - Height (distance from base to crankshaft center line)
 - C - Length (distance from oil seal/cover's mounting face to end of crankshaft)
- Match the crankshaft type, i.e., keyway, tapered or threaded
- Match the crankcase cover's tapped holes for mounting accessories (if applicable)
- Match the base mounting dimensions and bolt hole spacing



4. VERTICAL CRANKSHAFT ENGINES

- Compare the overall engine size to avoid possible mounting interference
- Match the crankshaft
 - A - Starter grip position
 - B - Diameter
 - C - Keyway type
 - D - Length (distance from mounting face of sump - not oil seal - to end of crankshaft)
- Match the mounting base dimensions and bolt hole spacing



WARNING: Briggs & Stratton® engines are not designed for and are not to be used to power: fun-karts; go-karts; children's, recreational, or sport all-terrain vehicles (ATVs); motorbikes; hovercraft; aircraft products; or vehicles used in competitive events not sanctioned by Briggs & Stratton. For information about competitive racing products, see www.briggsracing.com. For use with utility and side-by-side ATVs, please contact Briggs & Stratton Engine Application Center, 1-866-927-3349. Improper engine application may result in serious injury or death.