SMALL GASOLINE ENGINES CDE Required Tools Checklist

TEAM: ____

The following is a list of tools that MUST be the engine. Additional tools selected by t	
Two "C" clamps (minimum 4" capacity) Securable tool box Slip-joint pliers B&S 19368 spark tester* 5/8" Spark plug socket Torque wrench (220 in. lb. capacity) B&S #19389 inductive digital tachometer or similar Leaf type feeler gage B&S #381573EN Service & Repair Instructions * B&S 19480 tang bending tool* Soft-faced hammer (no rubber mallets) B&S #19433 Strap Wrench Flywheel holder (or equivalent) B&S #19203 Flywheel puller 2- or 3-jawed gear puller, 8" capacity Plastic drinking straw Flashlight – (NO Phone Flashlights) ½" drive, 21 mm deep well socket for flywheel nut or 3/8" drive, 21 mm deep well socket with ½" drive adapter.	 ½" drive ratchet or breaker bar 6" (minimum) 3/8" ratchet extension Long-nose pliers Torque wrench (ft. lb.) capable of torquing the flywheel nut Screwdriver, - #2 Phillips Screwdriver, - Slotted, minimum 3/16" tip width B&S 19545 leak down tester w/bolt to lock crankshaft* Round wire gauge/bender for spark plugs Equipment to repair rewind starter Tools to unplug fuel lines and fuel passages B&S 19057 bushing driver Metric socket set(s) including, but not limited to 8mm-14mm sockets and appropriate ratchet/breaker bar 7/16 inch and 12mm wrench B&S 19620 fuel line removal
Deduct 5 points for each missing item	Total Deductions

Additional tools are permitted. No deductions for additional tools will be made.

Spare parts are not allowed. There will be a 25 pt. deduction for each spare part.



⁴The B&S #381573EN Repair Manual is the only reference material permitted with the toolbox. A 10-point deduction will be assessed for each page or part thereof for any other reference materials or notes.

^{*}These are current tool numbers. Some part numbers have changed as versions of the tool has changed. As long as tool is a B&S product and will work properly for this model engine it will be permitted.

SMALL GAS ENGINES CDE Suggested Tools

The following is a list of suggested tools that should be considered when repairing your engines. These tools are not required and will not be scored for deductions.		
Calculator		
Oil Rags		
Writing Utensil		

