Name:	Engine #		
BRIGGS & STRATTON	4-stroke Internal Combustion Engine	BRIGGS & STRAT	TON ®

Job - Engine Starting & Tuning

Introduction

It's time to start the engine once again. This time you will be asked to do more than simply start it, you'll need to tune-it for best performance as well.

Procedure

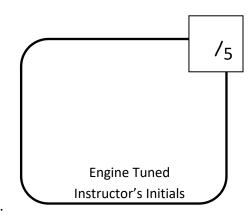
1. Before attempting to start the engine you'll need to make some initial settings to your carburetor. Find the specs for the adjustments noted below in the Briggs and Stratton service manual and record the settings.

Initial mixture screw setting _____

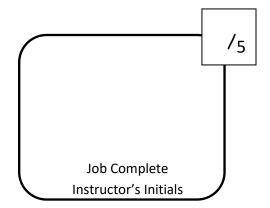
Initial idle set screw setting _

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- 2. Fill the engine's crankcase to the recommended oil level (bottom of the threads)
- 3. Bolt your engine to a test stand. Make sure that it is secure!
- 4. When outside, fill the fuel tank with sufficient fuel for the short time that you will be running the engine.
- 5. Make the initial adjustments that you noted in step #1 above.
- 6. Secure the engine in a vice.
- 7. Start the engine.
- 8. When warmed up, tune it as per the demonstration.
- 9. Show your instructor that you engine is tuned to receive credit.



- 10. Shut off the engine. Take extreme care to avoid burning yourself on the muffler as you proceed through the remaining steps.
- 11. Remove the test stand. Return bolts to their places in the stand.
- 12. Drain the engine oil from the crankcase. Clean up any spills!
- 13. Outside, drain the fuel from the fuel tank. Use a funnel to avoid spills.
- 14. Once your engine is completely assembled. Wipe clean and show your instructor to receive final credit.



Questions

- 1. When an engine appears to be mechanically fit yet still fails to start, a knowledgeable person would investigate three things. What would these be?
 - a. _____
 - b. _____
 - C. _____

a.				
b				
_				
_				
c				
c				
c				