

What's Wrong with My Push Mower?

Duty Areas: Examining Functions and Types of Fuel Systems; Repairing Carburetors and/or Fuel Injection Systems

Allison is a technician working in a repair shop that specializes in small engine repair. A customer brings a push mower into the shop, complaining that the mower will start with starter fluid but will not continue to run. The customer has very little knowledge of small engines, how they run, or what issues might cause this problem.

Big Question:

What does Allison need to do to diagnose the problem and repair the mower?

Focused Questions:

- What information does Allison need from the customer?
- What parts of the mower does she need to examine?
- How should Allison go about obtaining the parts, if needed? What information does she need from the mower to order parts?
- What equipment will she need to complete the evaluation and repair?
- How can Allison explain to the customer what the problem is and what repairs are needed?
- What suggestions can Allison offer the customer to prevent this kind of problem from being an issue every year?

Project-Based Assessment:

Have students role-play the scenario and act out how the problem should be solved. Give students information on the mower to help them diagnose the problem. Students should use their technical knowledge to explain issues to the customer in layman's terms.

Resources:

Briggs and Stratton Small Engines Textbook
Briggs and Stratton Power Portal Website
Small Engine Maintenance and Repair Text