

Mismatched Parts

Duty Area: Understanding Engine Nomenclature and Selecting Repair Parts

Amanda works at a small-engine repair shop. A customer arrives with a push mower and a spare carburetor and complains that the carburetor they ordered does not fit correctly.

Amanda locates the customer's account information to get more details. She uses the parts lookup system to identify the carburetor and checks for the model, type, and code on the mower's blower housing. Amanda quickly notices that the part number for the carburetor does not correspond with the model, type, and code on the blower housing.

Amanda asks the customer if they have ever replaced the blower housing on that particular engine. The customer replies "yes," but they don't understand why that might be a problem.

Big Question:

How did Amanda know that the blower housing may have been replaced on the engine, and why is that important?

Focused Questions:

- What is the difference between the engine model number and the mower model number?
- How could Amanda's customer avoid this same problem in the future?
- Is there any way for Amanda to look up the appropriate part number without the correct model, type, and code for the engine?

Project-Based Assessment:

Provide a model, type, and code number, and have students look up replacement part numbers for the piston rings, crankcase gasket, and carburetor. Have students work in pairs to use available tools to transcribe the model, type, and code number from the blower housing on the engine to an appropriate spot on the engine block.