



**Enroll in ZSuite Under this Project Name:** TECS-SMALL ENGINES-Lv 3: Tune It Up

*Approved for 2023-24 Project Year*

**Project Description:** Youth tear down and rebuild an engine, use diagnostic tools, research rules and regulations about using small engine machines, and learn how to select replacement engines.

**REQUIRED YOUTH CURRICULUM**

[Tune It Up, Level 3](#) (#08188), 2005

[ZSuite 4-H Involvement Report](#)

[ZSuite 4-H Project Record Book](#)

**REQUIRED VOLUNTEER CLUB LEADER CURRICULUM**

[Small Engines Helper's Guide](#) (#08189), 2005

**SUPPLEMENTAL RESOURCES**

[Briggs & Stratton](http://www.briggsandstratton.com) (www.briggsandstratton.com)

[Ariens](http://www.ariens.com/en-us) (www.ariens.com/en-us)

[John Deere](http://www.deere.com) (www.deere.com)

[Kohler](http://www.kohlerpower.com/en/engines) (www.kohlerpower.com/en/engines)

[Tecumseh Engines](http://www.tecumsehengineparts.com) (www.tecumsehengineparts.com)

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## PROJECT COMPLETION CHECKLIST

STATE REQUIREMENTS	
	Complete a minimum of 7 required/optional activities in the Tune It Up project manual each year.
	Finish at least 21 of the required and optional activities within 3 years to pass each book.
	Have your project helper date (month and year) and initial each activity when it is finished.
	Complete the 4-H Project Record Book for this project in your ZSuite Member Account
	Fill out your 4-H Involvement Report in your ZSuite Member Account
	Give an oral presentation (speech, demonstration, or illustrated talk) to your 4-H peers on a topic related to this project. Recommended guidelines for length of oral presentations are: <ul style="list-style-type: none"> <li>• Junior: 5-8 minutes</li> <li>• Intermediate: 8-10 minutes</li> <li>• Senior: 10-12 minutes</li> </ul>

ADDITIONAL LOCAL REQUIREMENTS

FAIR EXHIBIT CHECKLIST	
	Completed Idaho 4-H Involvement Report (ZSuite)
	Completed Idaho 4-H Project Record Book for this project (ZSuite)
	Completed member guide
	ONE of the following exhibit options: <ul style="list-style-type: none"> <li>• A poster (14"x22") or display illustrating something you learned in this project this year.</li> <li>• A scrapbook of pictures of an activity you conducted</li> <li>• One of the following items (each year it should be a different item): <ul style="list-style-type: none"> <li>○ Small engine cutaway</li> <li>○ Small engine tools and uses</li> <li>○ Troubleshooting small engines</li> <li>○ Engine valve failures</li> <li>○ Lawnmower blade service</li> <li>○ Rebuild a small engine</li> <li>○ Rebuild small engine equipment</li> <li>○ Build equipment powered by small engines, such as log splitter, go-cart, etc.</li> <li>○ Small engine design trends</li> <li>○ Oil refining process</li> </ul> </li> </ul>

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