



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

Approved for 2024-25 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"> • Junior: 5-8 minutes • Intermediate: 8-10 minutes • Senior: 10-12 minutes

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

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