

School: _____

Team Number: _____

Team Members: _____

2025 Kansas FFA Agriculture Technical and Mechanical Systems Team Activity – 200 points

Instructions: Read the information below and complete all of the different activities in order to earn points for your team. These points will only be on the team portion of the event. They will NOT be used to determine individual placings.

Be sure to follow the steps on the Work/Repair Order to complete the activity. As you work through the scenario, be sure to follow logical troubleshooting steps and wear proper PPE. Do NOT remove any components unless you ask the scoring supervisor. IF your group correctly diagnoses the problem, the scoring supervisor will provide you with additional information to complete the Work/Repair Order

****Points will be given for following a logical order of diagnosis to determine the cause.**

Scenario: Customer John Farmer at 320 South Glade from Skiddy, KS has brought in an engine from a snow blower that will not start. They were using it to clear snow off of their driveway and heard a loud clunk and the engine stopped abruptly. It would not start for them even though it has resistance when they pull on the starter cord. The motor has 171 hours on the hour meter.

Task: Your team should correctly diagnose the problem and determine the root cause of the failure. You may perform common tests to complete this activity but must follow proper safety protocols at all times. **ASK YOUR EVENT SUPERVISOR BEFORE YOU ATTEMPT ANY PROCEDURE.** They are also scoring for certain procedures so checking with them may help your score. You do NOT need to remove many components, but some are allowed. Tools and resources are provided for you to use. Once you diagnose the problem, complete a Work/Repair Order

Points Scoring:

Your team will be awarded points for safety including proper procedures and wearing PPE, following a logical order to troubleshoot, using the service manual, working together as a team, arriving at the correct conclusion, checking all variables, and etc. There will be 100 points for following the proper procedure and 100 points for correctly completing the Work/Repair Order.

Work Repair Order:

Once your team has decided on the cause, you should complete the work repair order. **PLEASE WRITE LEGIBLY!!** The work repair order will be scored on the following criteria: **Concise** – clear and to the point. **Use of Terminology** – correct and professional terminology used. **Professional** – professional in formatting and tone. **Clarity of Communication** – clearly and effectively communicated, includes neatness. **Accuracy of Information** – information is accurate and precise.