

# Small Gasoline Engines CDE Trouble Shooting Checklist

Names: \_\_\_\_\_ School: \_\_\_\_\_

Directions: Identify the various symptoms/conditions (as stated in the scenario) that may contribute to the problems described. For each condition listed, circle the engine system affected. Once the affected engine system is identified, write the identification number of the specified tests or checks from the list provided below that are appropriate to confirm your diagnosis. If a particular test or check does not appear on the list, write it in the "other" space provided and use that number. One or more of the conditions will be provided for you and you will be asked to identify the others. Symptoms/Conditions may be listed more than once to indicate different probable engine systems.

<b>Symptom/Condition 1:</b> _____						
<b>Affected System:</b>	Fuel	Compression	Ignition/Electrical	Cooling	Lubrication	Starting
Test/Check #'s:						
<b>Symptom/Condition 2:</b> _____						
<b>Affected System:</b>	Fuel	Compression	Ignition/Electrical	Cooling	Lubrication	Starting
Test/Check #'s:						
<b>Symptom/Condition 3:</b> _____						
<b>Affected System:</b>	Fuel	Compression	Ignition/Electrical	Cooling	Lubrication	Starting
Test/Check #'s:						
<b>Symptom/Condition 4:</b> _____						
<b>Affected System:</b>	Fuel	Compression	Ignition/Electrical	Cooling	Lubrication	Starting
Test/Check #'s:						
<b>Symptom/Condition 5:</b> _____						
<b>Affected System:</b>	Fuel	Compression	Ignition/Electrical	Cooling	Lubrication	Starting
Test/Check #'s:						

## Possible Tests/Checks

- |                                     |                                   |                              |
|-------------------------------------|-----------------------------------|------------------------------|
| 1. Test Spark                       | 14. Check float needle/seat       | 27. Check starter components |
| 2. Check flywheel key               | 15. Check float                   | 28. _____                    |
| 3. Test spark plug                  | 16. Check jet/fuel passages       | 29. _____                    |
| 4. Check kill switch and wires      | 17. Check bowl/emulsion vents     | 30. _____                    |
| 5. Leakdown test                    | 18. Check air cleaner             | 31. _____                    |
| 6. Check head gasket                | 19. Check carb. gaskets/seals     | 32. _____                    |
| 7. Check cylinder head bolts        | 20. Check oil level               |                              |
| 8. Check spark plug torque/seal     | 21. Check oil seals               |                              |
| 9. Check tappet clearance           | 22. Check oil filler tube and cap |                              |
| 10. Check valve condition           | 23. Check governor                |                              |
| 11. Check fuel level                | linkages/springs/adjustment       |                              |
| 12. Inspect fuel lines for blockage | 24. Check cooling fins            |                              |
| 13. Check fuel shut-off             | 25. Check shielding               |                              |
|                                     | 26. Check crankcase vacuum        |                              |