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Tune-up and Dynamometer Testing

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Farm Machinery Fact Sheet FM-31

Tune-up

A suggested sequence of a complete engine tune-up and what is left out to make it a minor tune-up:

- 1. Remove spark plugs, inspect, then clean and regap or replace them as necessary.
- 2. Test engine compression.
- *3. Remove distributor, disassemble, clean, recondition and re-lubricate.
- 4. Regap breaker points or replace if necessary.
- 5. Inspect distributor rotor, cap and ignition cables.
- 6. Clean fuel sediment bowl and screen.
- *7. Remove and clean crankcase oil pan and the oil pump screen.
- 8. Check carburetor fuel level.
- *9. Adjust carburetor fuel level, recondition or replace float valve assembly as necessary and replace the bowl gasket.
- 10. Inspect the air cleaner and connections.
- *11. Remove and wash air filter screens and cup, and replace hose if necessary. Check hose clamps to make sure they are tight.
- 12. Install the spark plugs with new gaskets.
- 13. Check and correct ignition timing.
- 14. Cover the radiator and run the engine until it reaches normal operating temperature.

- 15. Adjust carburetor idle mixture and idle speed of the engine.
- 16. Check main fuel adjustment screw setting of the carburetor.
- 17. Adjust fast idle governed speed.
- 18. Check cooling system for pressure build-up at the radiator cap and inspect the condition of the cap, upper and lower hoses, and the radiator core.
- *19. Flush the cooling system, clean the radiator fins, and replace hose as necessary.
- 20. Inspect and adjust both fan and generator belts, as necessary.
- 21. Check horsepower, RPM, governor, and general condition of tractor through the use of a dynamometer.
- *These items are not included in minor tune-up.

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