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Tune-up and Dynamometer Testing

Von H. Jarrett PhD
Utah State University

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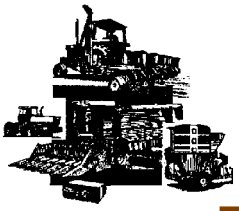

TUNE-UP AND DYNAMOMETER TESTING GASOLINE ENGINE

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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