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Front End Noise**Gear backlash causes noise on 5000 series tractors**

PRINTER FRIENDLY

FEEDBACK

Symptoms

- ▼ 5000 series tractors with the 3 cylinder, 2.9L engine are assembled with spur cut gears in the front drive train. Spur cut gears are made with a backlash tolerance, which allows them to be slightly loose.

Summary

When the gears turn under a "no load" condition, the backlash will cause them to clank together. This is **normal**. When a hydraulic function is activated, a load will be transmitted across the gears and the noise should be eliminated.

The noise will be more pronounced at low engine speed. Proper engine idle speed should be 800-850 RPM. If your engine runs slower at the lowest throttle setting, alert your [John Deere dealer](#) at the next service interval for an adjustment.

Affected Equipment

5103 Tractor	5105 Tractor
5200 Tractor	5203 Tractor
5205 Tractor	5210 Tractor
5220 Tractor	5300 Tractor
5303 Tractor	5310 Tractor
5310N Narrow Tractor	5320 Tractor
5320N Narrow Tractor	5400 Tractor
5403 Tractor	

Feedback**Did this tip answer your question?**

- ☐ Fully answered question
- ☐ Partially answered question
- ☐ Did not answer question
- ☐ Answer does not apply to my question

This feedback will be used to improve the overall quality of our tip and troubleshooting offerings. We encourage you to contact your John Deere dealer for answers to more technical questions.

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