

TM13065X19 - 670G, 670GP, 672G, and 672GP Motor Graders Excessive Differential and/or Axle Noise

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Excessive Differential and/or Axle Noise Diagnostic Procedure

1 Differential Oil Level Check

Action:

Check differential oil level. [See Check Axle Oil Level](#) . (Operator's Manual.)

Is differential oil at proper level?

Result:

YES: Go to Differential Oil Check.

NO: Fill differential oil to proper level. [See Check Axle Oil Level](#) . (Operator's Manual.)

2 Differential Oil Check

Action:

Check differential oil for contamination. [See Check Axle Oil Level](#) . (Operator's Manual.)

Is differential oil contaminated?

Result:

YES: Remove differential and diagnose malfunction. [See Rear Axle Remove and Install](#) . (Group 0250.)

NO: Go to Differential Lock Solenoid Valve Check.

3 Differential Lock Solenoid Valve Check

Action:

Check differential lock solenoid valve operation. [See Differential Lock Function Test](#) . (CTM138619.)

Is differential lock solenoid valve operating correctly?

Result:

YES: Go to Axle Bearing Check.

NO: Replace differential lock solenoid valve.

4 Axle Bearing Check

Action:

Inspect axle bearings. [See Tandem and Wheel Axle Assembly Remove and Install](#) . (Group 0250.)

Are axle bearings worn or damaged?

Result:

YES: Replace worn or damaged axle bearings.

NO: Go to Differential Check.

5 Differential Check

Action:

Inspect differential. [See Differential Housing Assembly — Inspection and Assemble](#) or [see NoSPIN Differential Housing Assembly — Inspection and Assemble](#) . (CTM138619.)

Are any differential parts worn or damaged?

Result:

YES: Replace worn or damaged differential parts.

NO: Perform axle and differential troubleshooting. [See Troubleshoot Axle and Differential](#) . (CTM138619.)