



Customer Service Bulletin Commercial Business Group

Groundsmaster® 300 Series

Date: October 12, 2005

<u>Model/Serial Range:</u>	<u>Model Number:</u>	<u>Serial Numbers:</u>
Groundsmaster 328D 2wd	30626	210000101-26009999
Groundsmaster 328D 2wd	30630	210000101-26009999
Groundsmaster 328D 4wd	30627	210000101-26009999
Groundsmaster 328D 4wd	30631	210000101-26009999
Groundsmaster 325D 2wd	30788	00101-210009999
Groundsmaster 345	30789	00101-240009999
Groundsmaster 325D 4wd	30795	00101-210009999

Subject: Effects of loose fasteners and engine vibration in drive system.

If a unit shows visual symptoms of vibration, fails a drive system component, or has a metal fatigue failure, inspect the unit carefully for loose fasteners/misalignment and proper engine speed settings.

Note: General symptoms of a unit with excess vibration can be visually identified by a rapid shaking of the steering column and air cleaner intake tube.

Inspect the engine mounts, hydrostat drive couplings, hydrostat, front axle, and PTO drive system components for loose fasteners. Tighten any loose items found. Loose fasteners can create misalignment during operation as the components shift position under load.

If the idle speed setting is below 1500 rpm, the engine can create excess vibration. The engines used in this application tend to have a natural harmonic vibration at or around 1500 rpm. If vibration is noted at the steering tower and air cleaner intake tube when idling, the condition can be improved by experimenting with the idle setting. The idle setting may be adjusted anywhere between 1500 and 1650 rpm to find the speed where the vibration is the least. The correct full throttle setting is 3150-3250 rpm.

Contact your local Toro distributor if you require assistance.