

### What is the purpose of a Torsion Damper?

Torsion dampers are designed to minimize both noise and vibration and provide a comfortable driving environment by reducing torsional vibration between the engine and transmission.

A Torsion damper will smooth out engine torque peaks and eliminate the excitation in the drive train under operating conditions and eliminate the fluctuations in the transmission input speed making the tractor quiet and vibration free.

### Why change a damper?

A machine will continue to run with a worn and poorly functioning damper, and it will not only be noisy and uncomfortable to drive, but the risk of accelerated wear and possible damage to the transmission and front PTO will be considerably increased.

It is difficult to accurately predict when a torsion damper will require replacement due to the wide variety of work each machine undertakes. Typically, a torsion damper will provide between 4000 and 6000 hours of service under normal operating conditions.

If the engine / transmission housing is opened for any reason, the damper can be visually inspected for obvious wear and damage.

#### Signs of a worn damper:

- Rattling noises in the transmission
- Increasing noise from the transmission
- Unusual noises from the area between the engine and transmission
- Loss of drive to the wheels and PTO

**Hy-Capacity strongly recommends that torsion dampers be replaced well before the more serious signs of imminent failure.**

