



Hydraulic Launch Assist™

Eaton's HLA® system delivers 15-30 percent better fuel economy in many applications while reducing emissions.

Ideally suited for refuse and other applications that require repeated starts and stops.

Eaton offers a complete range of hybrid technology and is an industry leader in regenerating lost braking energy in start and stop applications. In addition to HLA, our Hybrid Electric System delivers significant fuel savings while reducing emissions.

System Benefits:

- The HLA system can be used in economy or productivity mode. One maximizes fuel savings. The other increases productivity.
- Delivers 15-30 percent better fuel economy.
- Reduces emissions of NOx, particulates, and CO2.
- Provides more torque for quicker acceleration and shorter cycle times.
- Greatly increases brake life (some customers are achieving four times greater brake life).
- Extends service intervals for engine and transmission.

EATON

Powering Business Worldwide



An Eaton Green Solution

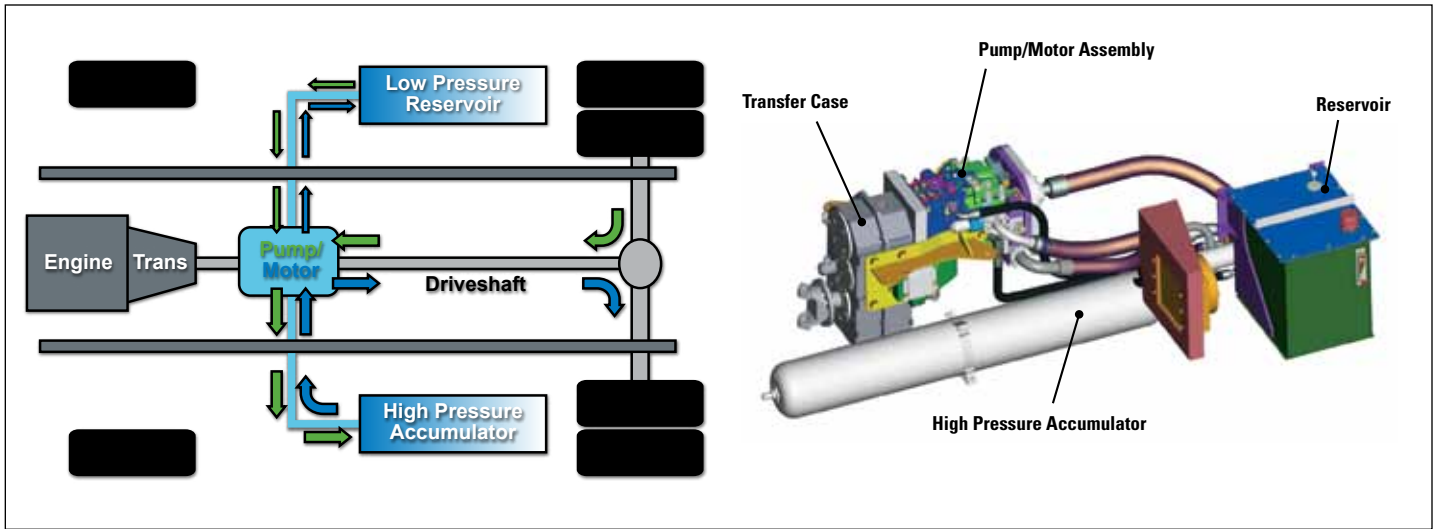


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Eaton Recovery Hotline

1.800.826.HELP (1.800.826.4357)

www.eaton.com/recovery



Eaton uses a parallel hydraulic system, where the conventional vehicle powertrain is supplemented by the addition of the hydraulic system. The system is best suited for vehicles that operate in stop and go duty cycles. Examples include refuse trucks and buses. Key elements of the value proposition include improved fuel economy through regeneration of braking energy, longer brake life, and increased productivity due to the extra power the HLA system provides. Fuel economy and emission reductions in the 20-30 percent range and paybacks in 2-3 years are possible with this technology.

Features

- Parallel hybrid hydraulic regenerative braking system.
- The HLA system recovers the majority of the energy normally wasted as heat during braking and uses it to supplement the engine's power during acceleration.
- The HLA system provides the greatest benefit when the vehicle's driving cycle involves stop and go driving.

Economy and Productivity Modes

Economy:

The HLA-equipped truck will accelerate at the same rate as a baseline truck but will provide fuel savings due to the help provided by the HLA during each acceleration.

Productivity:

The HLA system and the engine work at the same time to propel the truck, resulting in a boost in acceleration that translates in quicker bin pick up, thus providing productivity gains.