

## New EconoLife Power Assemblies for EMD Model 645E and 645E3 Engines

With a focus on power, performance, and innovation, Electro-Motive Diesel has been the premier provider of diesel-electric locomotive technology for 90 years. EMD locomotives now comprise the majority of the active worldwide fleet, leading the company to actively develop a variety of unique OEM replacement parts. An example of EMD's ongoing product support are the new EconoLife™ Power Assemblies.

This economical power assembly solution is intended for older locomotives, used in switch duty service, that are equipped with EMD 645E roots-blown or 645E3 turbocharged engines. In such light duty applications, where maintenance costs are often the primary concern, EconoLife power assemblies are an ideal option versus standard and premium components.

EconoLife power assemblies are offered in standard fork, blade, and partial pack configurations.



	Type	Engine	Compression	Carrier Pin
40118490	Fork	645E	16:1	Straight
40118491	Blade	645E	16:1	Straight
40173918	Partial	645E	16:1	Straight
40190977	Fork	645E	14.5:1	Rocking
40190978	Blade	645E	14.5:1	Rocking
40190979	Partial	645E	14.5:1	Rocking
40190974	Fork	645E3	14.5:1	Straight
40190975	Blade	645E3	14.5:1	Straight
40190976	Partial	645E3	14.5:1	Straight

**NOTE:** EconoLife power assemblies are not emissions certified and can ONLY be used on engines not currently labeled as EPA Tier 0 or Tier 0+ compliant. Many locomotives equipped with EMD 645E or 645E3 engines are exempt from those emissions requirements as a result of the locomotive age or other EPA criteria.

EconoLife 645E power assemblies with a 14.5:1 compression ratio and rocking pin configuration may be used as an alternative to 645E3 power assemblies with a 14.5:1 compression ratio and straight pin configuration.

EconoLife power assemblies are primarily intended for running repair of individual failures. In certain cases, multiple power assemblies may be replaced on non-exempt engines.

## The EMD OEM Advantage

EMD replacement parts are the result of extensive development and testing in the same engineering facilities where new EMD engines are designed, built, and tested. This OEM focus ensures the same performance, reliability, and durability for which EMD engines are legendary.

- OEM fuel injectors are fully remanufactured to precise internal specs vs. partially rebuilt retrofits. This ensures sustained fuel economy and emissions performance over their full useful life and avoids the operating penalties and expense of non-compliance.
- Power Assemblies and all emissions critical components are the result of fully integrated OEM design vs. partial substitution of non-optimized third party components.
- Engines and critical subsystems are carefully calibrated to optimize performance, reduce emissions, and minimize fuel consumption.
- EMD emissions kits require no cumbersome catalyst retrofits which can suffer from excessive backpressure, ash fouling, and extreme temperatures.
- EMD has stood solidly behind its products since 1922. As the EPA certificate holder for its engines and kits, their in-use emission compliance and engine performance is covered by the EMD OEM factory warranty.