

## PENN MACHINE COMPANY LLC

#### THE LEADER IN LOCOMOTIVE GEAR SOLUTIONS

# Segmented Locomotive Flywheel/Starter Gear

Same as 0EM 40121149. Replaces 40051536 & 40114007 – EMD 645 & 710 Engines

With the growth of automated engine starter systems, starter gears are used more than ever. Penn Machine has designed a 3-piece starter gear in cooperation with a Class I railroad. The benefits of this product have enabled railroads and repair shops alike to improve their efficiency and profitability.

#### **Key features and benefits are:**

- Heat Treat Alloy Steel for Longer Life
- Reduced Tooth Breakage
- 90% Reduction in Changeout Time & Cost

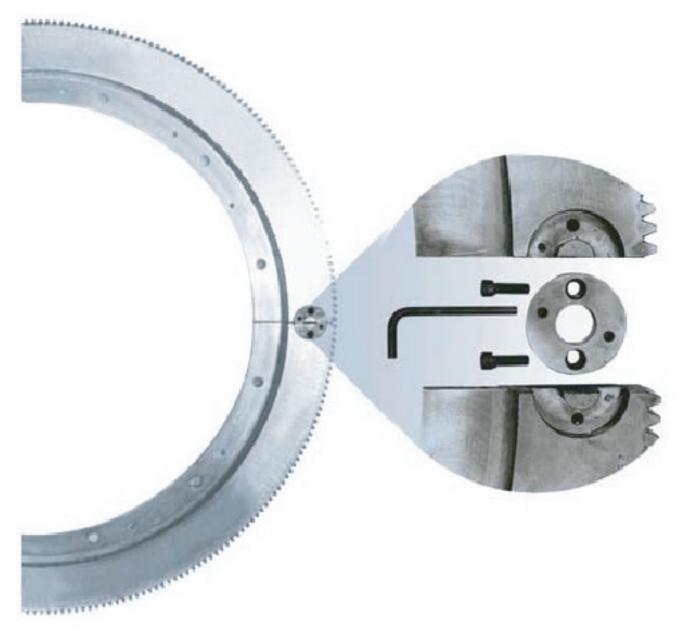
#### **Part Numbers**

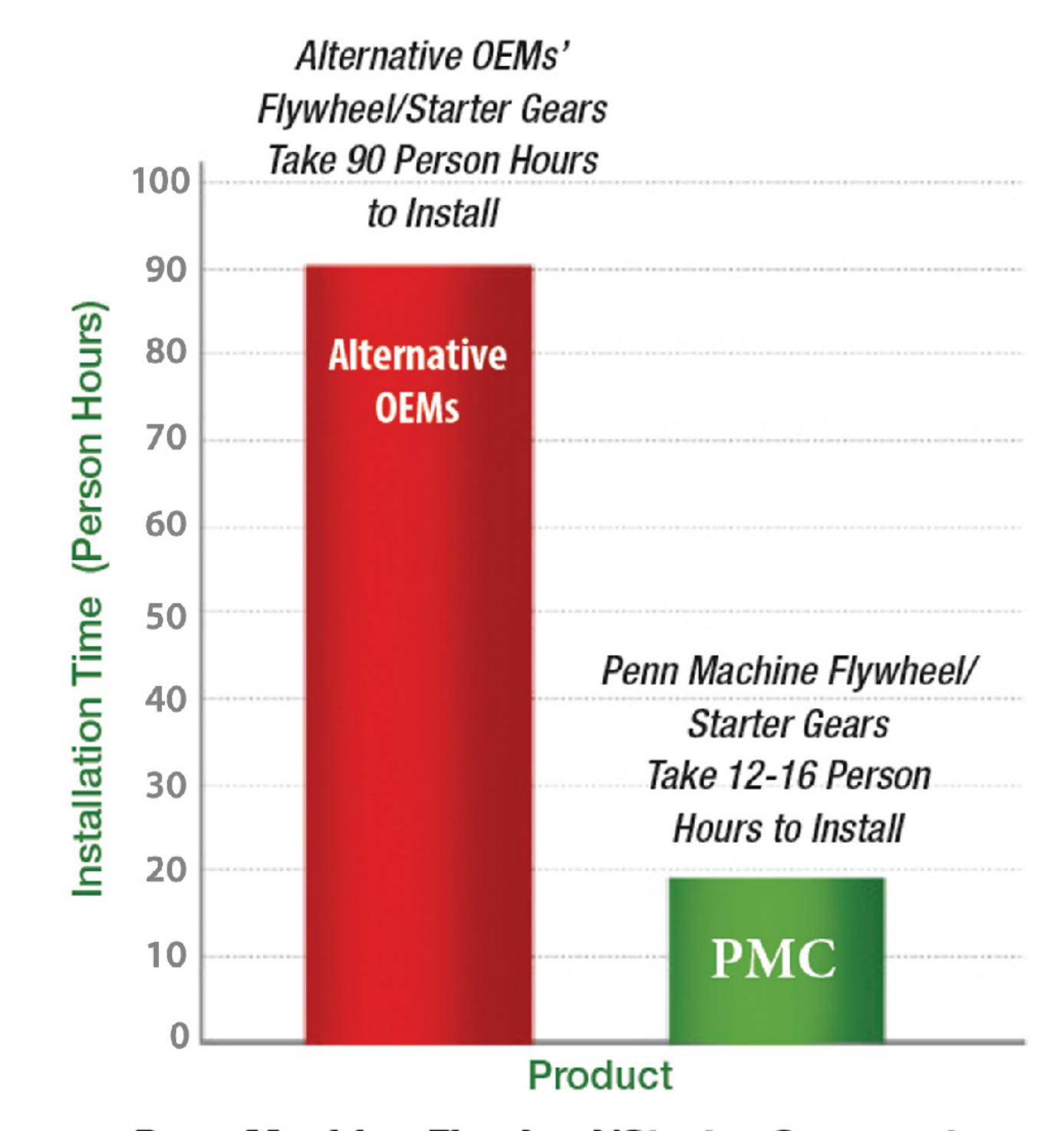
**00493643/40121149** (3 piece)

00708066/40122615 (3 piece chamfered)

### **Installation Instructions**

- Remove flywheel bolts from old starter gear. Torch cut gear to remove. Protect other critical components during cutting.
- 2. Remove old gear halves, clean flywheel, check clean & re-tap mounting holes.
- 3. Disassemble PMC 3-piece split starter gear. Remove Allen screws & locking plate. Mount loose segments to the flywheel & snug down bolts.
- 4. Reassemble the split locking plates. Loctite Allen screws & torque to 100-130 inch pounds.
- 5. Tighten flywheel bolts per OEM specifications.





Penn Machine Flywheel/Starter Gears cut installation time by more than 80%

# A Leader in Wheels & Maintenance Equipment for Transit, Rail & Mining/Industrial Applications

In 1920, Penn Machine Company (PMC) began as a coal company and pioneered the manufacture of quality replacement parts for coal mining equipment. Over the years, the company has grown to become a major supplier of heavy-duty OEM and aftermarket components for transit, railroad, mining, steel, construction, and general industrial applications. Our business is domestic and international in scope. Our capabilities and experience combine to provide a wide range of quality manufactured products and services. Penn Machine is comprised of three market-focused stand-alone business units: Transit, Locomotive, and Industrial/Mining. The company has operations in Johnstown and Blairsville, PA, and is part of The Marmon Group, a global organization of manufacturers owned by Berkshire Hathaway Corp.









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