



Remanufacturing:

Driving toward a cleaner environment



Value Proposition

Remanufacturing is one of the world's greenest and sustainable industries. Energy and natural resources are saved, air pollution is reduced, and products are kept out of the waste stream for longer periods of time. Most importantly, greenhouse gas emissions are significantly reduced.

Benefits of remanufacturing that accrue to society



Economy (remanufacturing vs new)

- ▶ 300,000 jobs
- ▶ \$30B annual sales
- ▶ Saves consumers money (35%+++ less than new)



Quality (remanufacturing vs new)

- ▶ Fulfills the same quality integrity and function as the original part
- ▶ OE manufacturing standards
- ▶ OE durability, endurance and performance specifications
- ▶ Compliance with safety requirements
- ▶ Returns end of life parts to original "same as new" condition



Conservation of energy (remanufacturing vs new)

- ▶ Equivalent to 69M barrels of crude oil conservation
- ▶ Comparable to electricity savings generated by 8 average size nuclear power plants
- ▶ Consumes 11X less energy (remanufactured starters vs new)
- ▶ Consumes 7X less energy (remanufactured alternators vs new)



Conservation of natural resources (remanufacturing vs new)

- ▶ Process uses existing natural resources as inputs
- ▶ Conserves 14M tons of natural resources (copper, aluminum, iron, steel, petroleum)
- ▶ 9X less virgin raw materials by weight (remanufactured starters vs new)
- ▶ 8X less virgin raw materials by weight (remanufactured alternators vs new)



Reduction of solid waste (remanufacturing vs new)

- ▶ Annual landfill reduction of several hundred million pounds of cores and materials
- ▶ Adds several life cycles to a product; fewer products enter waste stream
- ▶ Preserves clean water; ground water protected from leachates by
- ▶ reduction of cores and metals (iron, aluminum, copper) in land fills



Reduction of pollution (remanufacturing vs new)

- ▶ Annual carbon dioxide reduction of 28M tons (remanufacturing vs new production)

Call to Action! Federal Vehicle Repair Cost Savings Act of 2014 (H.R. 4056)



The Motor & Equipment Manufacturers Association (MEMA) applauds Reps. Gary Peters (D-Mich.) and James Lankford (R-Okla.) for their support and leadership demonstrated by the introduction of the “Federal Vehicle Repair Cost Savings Act of 2014 (H.R. 4056).”

A bill to reduce the operation and maintenance costs associated with the Federal fleet by encouraging the use of remanufactured parts to maintain Federal vehicles

1. There are approximately 588,000 vehicles in the civilian Federal fleet.
2. Federal agencies spent approximately \$975 million on repair and maintenance of these vehicles in 2011.
3. Remanufactured vehicle components, such as engines, starters, alternators, steering racks, and clutches, tend to be less expensive than comparable new replacement parts.
4. The United States Postal Service and United States Department of the Interior both informed the Government Accountability Office that they rely on the use of remanufactured vehicle components to reduce costs.

The term “remanufactured vehicle component” means a vehicle component (including an engine, transmission, alternator, starter, turbocharger, steering, or suspension component) that has been returned to same-as-new, or better, condition and performance by a standardized industrial process that incorporates technical specifications (including engineering, quality, and testing standards) to yield fully warranted products.



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