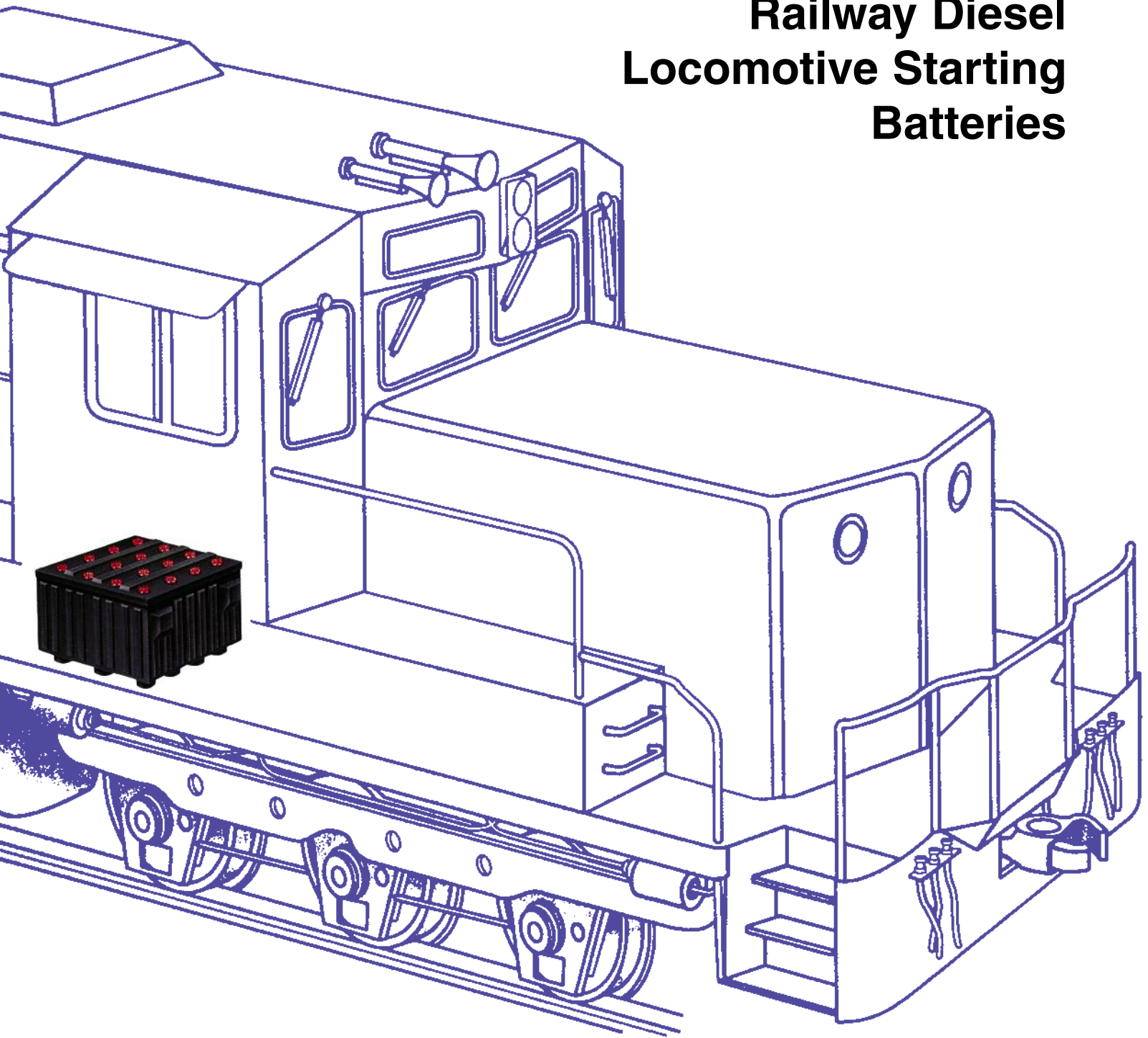




Railway Diesel Locomotive Starting Batteries



Consistent Reliable Power from GNB® Railway Diesel Locomotive Starting Batteries

Power and reliability. That's what GNB Railway Diesel Locomotive Starting Batteries are designed to do, and that's what they will deliver. GNB Starting Batteries give you the best of both.

For more than 60 years, GNB Industrial Power has been supplying both domestic and international railroads with dependable locomotive starting power – power that gets locomotives running in all types of weather conditions and temperature extremes.

Power in Reserve

GNB Starting Batteries have a high reserve capacity to meet the requirements of most railroads.

Economy Plus

With a myriad of features, GNB Starting Batteries offer excellent value. No new locomotive should be without them.

Total Battery Management

GNB Industrial Power's commitment doesn't stop with the sale. Our complete approach to the business of manufacturing, distribution, and recycling continues to set the standard in the battery industry.

Let GNB Industrial Power take the risk out of the disposal of your spent batteries. As part of a Total Battery Management program, GNB Industrial Power will pick up and transport any spent lead-acid battery to an EPA-approved recycling center. To arrange pick-up anywhere in the United States, call 1-888-438-5865. In Canada, call 1-800-231-9081. In Mexico, call 630-862-2443.



Types KDZ-2701 and KDZ-3001 Heavy Duty Batteries feature proven reliability and performance, quick engine cranking, high break-away current, long service life, and heavy-duty construction throughout. KDZ-2701 offers large reservoir of electrolyte. KDZ-3001 offers higher capacity per cube.

Type KDZ 501 features proven reliability and performance, excellent cranking capacity, designed to meet the requirements of railroads, copper core terminals for greater electrical conductivity and longer sustained cranking power.



Type KDZ 651 delivers the power you'll need, no matter what the conditions. It has a high reserve capacity of 650 Ahr for 8 hours at 77 °F. Copper cored terminals provide longer sustained cranking power.

- 1. Positive Plate Retainer** – reduce the loss of active material through dislodgment and sedimentation.
1a – vertically wrapped glass mat
1b – horizontally wrapped retainer
1c – welded boot
- 2. Separators** – micro-porous polyethylene material helps prevent shorts between positive and negative plates.
- 3. Cell Construction** – high-impact polypropylene
3a – highly reliable heat-sealed jar to cover bond
3b – molded terminal post seal
- 4. Outer Tray Construction** – tray and cover material are made of high-impact polyethylene.
- 5. Element Protector** – safeguards against damage to the separators and plates during hydrometer readings.
- 6. Easy Cell Replacement** – each cell can be replaced individually.
6a – antimony alloyed lead positive plate grids
6b – alloyed lead negative plate grids
- 7. Heat-Sealed Cells** – each cell is heat-sealed to prevent electrolyte leakage or spillage. This also helps reduce corrosion caused by electrolyte around the terminals.
- 8. Minimal Terminal Degradation** – solid lead posts, connectors, and copper-cored terminals. This results in excellent electrical contact and minimal terminal degradation at break-away current.
- 9. Bridge** – self-leveling design safeguards against premature shorting by distributing sediment evenly.

Advanced Flooded Cell Design...



...Means Longer Run Time.

GNB Industrial Power – The Industry Leader.



GNB Industrial Power, a division of Exide Technologies, is a global leader in motive power battery and charger systems for electric lift trucks and other material handling equipment. With a strong manufacturing base in both North America and Europe and a truly global reach (operations in more than 80 countries) in sales and service, GNB Industrial Power is best positioned to satisfy your power needs locally as well as all over the world.

Based on over 100 years of technological innovation, the Motive Power group leads the industry with the most recognized global brands, such as GNB® FLOODED CLASSIC®,

GNB® FLOODED CLASSIC PLATINUM™, TUBULAR-HP® HIGH PERFORMANCE, TUBULAR-LMT™ LOW MAINTENANCE, ELEMENT® and GNB® FUSION™. They have come to symbolize quality, reliability, performance and excellence in all the markets served.

GNB Industrial Power takes pride in its commitment to a better environment. Its Total Battery Management program, an integrated approach to manufacturing, distributing and recycling of lead acid batteries, has been developed to help ensure a safe and responsible life cycle for all of its products.

GNB Industrial Power

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www.gnb.com

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