

Legacy® Platinum Motive Power Batteries Installation and Operating Instructions

SAFETY PRECAUTIONS

1. Never attempt to remove vent plugs or add water to the battery.
2. This battery contains sulfuric acid. Avoid exposure to eyes, skin or clothing. Wear personal protective equipment. In case of contact, flush immediately and thoroughly with water. See MSDS for additional information. (www.douglasbattery.com)
3. The cells in this battery are sealed by means of a pressure relief valve. Some hydrogen gas can vent during charging. Charge in a ventilated area and keep all ignition sources away from battery.
For VRLA Batteries - DO NOT REMOVE VENT VALVES.
4. Disconnect battery from truck before performing any maintenance or repair of electrical system.
5. Repair and/or service of the battery should be performed by an authorized Douglas representative.



WARNING: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known by the State of California to cause cancer and reproductive harm. Batteries also contain other chemicals known to the state of California to cause cancer. Wash hands after handling. Ventilate spaces where used or charged. If jump starting, refer to vehicle manufacturer's instructions. Not recommended for inverted use.

RECEIVING INSPECTION

1. Inspect battery carefully for signs of damage or rough handling. Report actual or suspected shipping damage to the carrier promptly.

PLACING IN SERVICE

1. Give the battery a freshening charge prior to installation. Use only an approved charger.
2. Make sure polarity of truck and battery connector are the same (plus to plus and minus to minus).
3. Make sure the battery's service weight (stamped on tray) falls within the battery weight range shown on the truck nameplate

OPERATION

1. Limit discharge of battery to 80% of its rated capacity. For extended life, limit discharge to 50%.
2. The open circuit voltage can be used to determine the battery's state-of-charge. The battery must be at rest for a minimum of 4 hours before measurements are taken.

Volts per cell	2.16+	2.11	2.06	2.01
% Charge	100	75	50	25

Reading taken at room Temperature

3. Recharge battery as soon as possible after discharging. Do not allow battery to remain in the discharged condition.
4. Operating temperatures should be between 45°F and 100°F. Operating above 100°F will reduce the service life. Operating below 45°F reduces available capacity and requires special charger settings.

MAINTENANCE

1. Legacy® Platinum batteries never need watering or gravity readings.
2. Replace worn or damaged cables and connectors promptly.
3. To determine condition of the battery, a discharge test should be performed at the 6-hr rate to 1.70 volts per cell (100% depth of discharge).

CHARGING

1. Charge battery with a properly sized Legacy Platinum charger or other battery charger designed for VRLA-Gel charging and approved by Douglas Battery.
2. Do not use standard ferro-resonant chargers; permanent damage to the battery can result and will void the warranty.
3. In average motive power service, an extended charge of about 3 hours at least once per week is required.

WARNING: Avoid short circuits. Do not use non-insulated tools. Do not place or drop metal objects on top of the battery. Before servicing, remove rings, wristwatches and articles of clothing with metal parts that might come into contact with the battery terminals. Metal parts of the battery are always live. Do not place tools or other objects on the battery.

WARNING: Do NOT use any type of oil, organic solvent, alcohol, detergent, strong acids, strong alkalis, petroleum-based solvent, or ammonia solution to clean the jars or covers. These materials may cause permanent damage to the battery jar and cover and will void the warranty.

