880B Excavator

Service Manual

9-68143

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SPECIFICATIONS

General

Type of system	24 volt negative ground
Batteries	Two 12 volt; 625 amp, at 0° F (-18° C) for 30 sec, 138 plate, wired in series
Alternator	24 volts, 62 amperes
Voltage Regulator	24 volts, transistorized, non-adjustable
Starter	24 volt, heavy duty, enclosed shift lever type
Circuit Breakers	Six manually resettable type, located in cab instrument panel

SAFETY RULES

This Safety Alert Symbol Indicates Important Safety Messages In This Manual. When You See This Symbol, Carefully Read The Message That Follows And Be Alert To The Possibility Of Personal Injury Or Death.

WARNING: Never operate the alternator on an open circuit. With no battery or other electrical load on the circuit, a voltage buildup will occur within the alternator. This voltage buildup could be extremely hazardous to anyone touching the alternator "BAT" terminal.

POISON DANGER: BATTERY ACID CAUSES SEVERE BURNS. BATTERIES CONTAIN SULFURIC ACID. Avoid contact with skin, eyes, or clothing.

Anti-dote: EXTERNAL: Flush with water. INTERNAL: Drink large quantities of water or milk. Follow with Milk of Magnesia, beaten egg or vegetable oil. Call physician immediately. EYES: Flush with water for 15 minutes and get prompt medical attention. KEEP OUT OF REACH OF CHILDREN.

WARNING: Never check battery charge by placing a metal object across the posts -the sparks could cause an explosion. Use a voltmeter or hydrometer.

CAUTION: Think out the circuit before making or breaking a connection. A wrong connection can be painful and expensive.

CAUTION: Disconnect both leads from the batteries when working on the engine or electrical system. Always disconnect the ground lead first.

WARNING: Batteries produce explosive gases. Keep flames, sparks and cigarettes away. Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries.

WARNING: This machine is equipped with a 24-volt starting sytem. Sparking will occur across greater distances than with a conventional 12 volt system. NEVER WEAR RINGS OR OTHER METAL OBJECTS that may ground a live circuit.

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