980B
Excavator

Service Manual

9-66739

CASE CONSTRUCTION

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SPECIFICATIONS

General

Type of system	24 volt start, 12 volt operating negative ground
Batteries	Two 12 volt; 180 amp, 138 plate batteries, wired in series
Alternator	12 volts, 62 amperes
Dual Voltage Charge Control Unit	Duvac, solid state, non-adjustable
Voltage Regulator	12 volts, transistorized, non-adjustable
Starter	24 volt, heavy duty, enclosed shift lever type
Circuit Breakers	Six manually resettable type, located in cab instrument panel
Oil Pressure Switch	Closes at 3-6 psi (21-41 kPa)
Starter Magnetic Switch	12 volts

Control System

Drive Lock Solenoids	12 volts, 1 ampere
Drive Range Solenoid	12 volts, .7 ampere
Drive Brake Solenoid	12 volts, 1 ampere
Fast Hoist Solenoid	12 volts, 1 ampere
Fast Hoist Cutout Pressure Switches	closes at 800 psi (5 500 kPa)

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 system. 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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