Service Manual

ZT 20D

Section 1 - General Information

Section 2 - Care and Safety

Section 3 - Routine Maintenance

Section B - Body and Framework

Section C - Electrics

Section D - Controls

Section E - Hydraulics

Section K - Engine



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Symptom	Problem	Correction
	Operator not in seat.	Sit in seat.
	Blown Fuse.	Replace fuse.
Engine Turns Over But Doesn't Start - There Is a Spark At Plug	No fuel or line plugged.	Fill tank or replace line.
	Bad fuel solenoid.	Contact JCB Dealer.
	Fuel valve turned OFF.	Turn fuel valve on.
	Dirt in fuel filter.	Replace fuel filter.
	Dirt, water, or stale fuel.	Contact JCB Dealer.
	Incorrect fuel in fuel system.	Drain tank and replace
	Choke is not ON.	Move choke lever to ON.
Engine Turns Over But Doesn't Start - No Spark at Plug	PTO switch is ON.	Turn PTO switch OFF.
	Control levers are not in park.	Put levers in park
	No operator in seat.	Sit on seat.
	Bad seat switch.	Contact JCB Dealer.
	Bad park switch.	Contact JCB Dealer.
Power Unit Jerky When Starting or Operates in One Direction Only	Motion control linkage needs adjustment.	Contact JCB Dealer.
	Hydrostatic pump failure	Contact JCB Dealer.
	Wheel motor failure.	Contact JCB Dealer.
	Bypass valve open.	Close bypass.
Power Unit Creeps When Motion Control Arms are in Neutral	Motion control linkage needs adjustment.	Contact JCB Dealer.
Power Unit Circles or Veers	Motion control linkage needs adjustment.	Contact JCB Dealer.
	Hydrostatic pump failure	Contact JCB Dealer.
	Wheel motor failure.	Contact JCB Dealer.
	Tyres improperly inflated.	Adjust pressures to 12 psi (0.8 bar) rear and 15 psi. (1.0 bar) front.
Abnormal Vibration	Engine mounting bolts loose.	Torque engine bolts
	Loose engine pulley.	Tighten pulley.
	Engine pulley damaged	Contact JCB Dealer.

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Specific Gravity Testing

The specific gravity of the electrolyte gives an idea of the state of charge of the battery. Readings should be taken using a hydrometer, when the electrolyte temperature is 15°C (60°F). If the battery has recently been on charge, wait approximately one hour (or slightly discharge the battery) to dissipate the surface charge before testing.

Readings should be as tabulated and should not vary between cells by more than 0.04. A greater variation indicates an internal fault on that particular cell.

If the electrolyte temperature is other than 15°C (60°F) a 'correction factor' must be applied to the reading obtained. Add 0.07 per 10°C (18°F) if the temperature is higher than 15°C (60°F) and subtract the same if the temperature is lower.

Table 2. Specific Gravity at 15°C (60°F)

	Fully Charged	Half Discharged	Fully Discharged
Ambient temperature up to 27°C (80°F)	1.270 - 1.290	1.190 - 1.210	1.110 - 1.130
Ambient temperature above 27°C (80°F)	1.240 - 1.260	1.170 - 1.190	1.090 - 1.110

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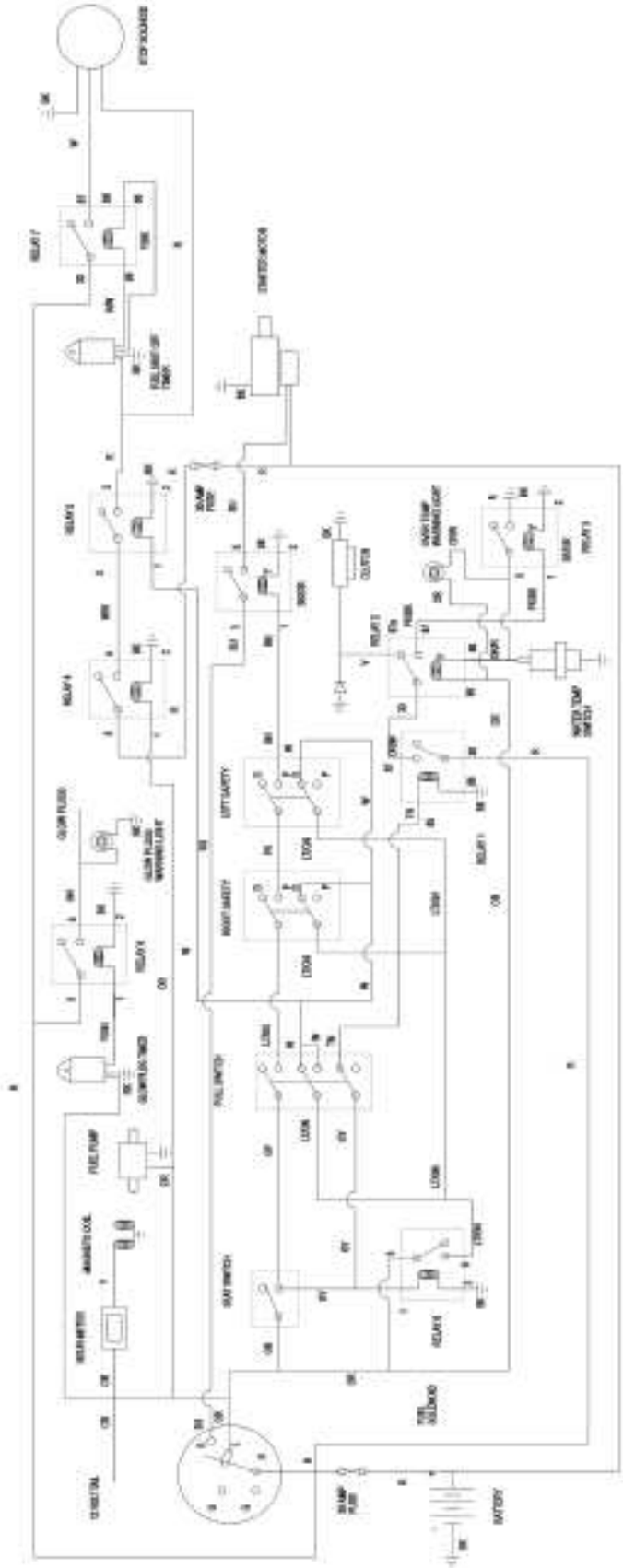


Fig 33. Electrical Schematic/Wiring Diagram- Logic

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