Genie Industries

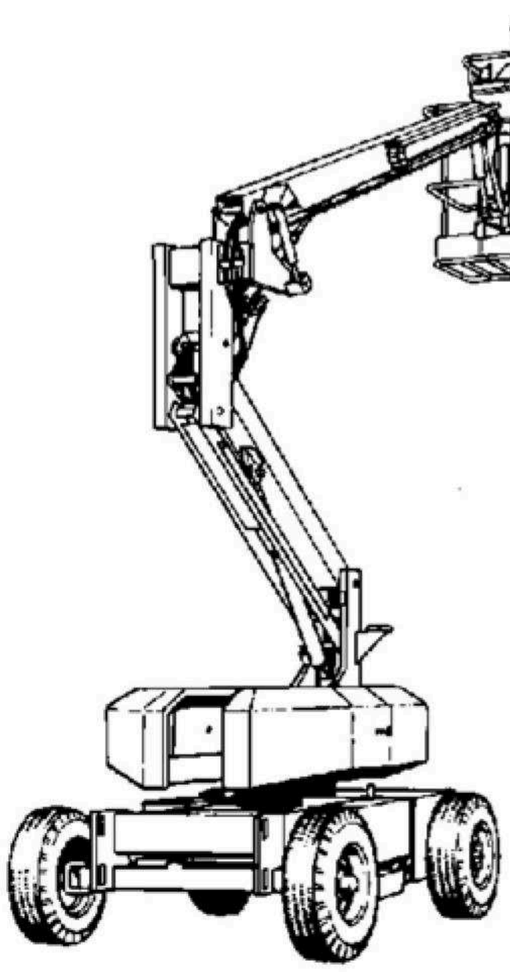
Technical Publications

Genie®

A TEREX COMPANY

Genie® Z-30/20HD™

Operating and Maintenance Manual



(from serial number 3084-101 to 3090-2213)

Second Edition, First Printing
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MidWestTech | Terex Genie Z-30/20HD Articulated Boom Lift Service Manual | Publication 139381

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SYMPTOM	PROBABLE CAUSE	PROCEDURE TO REPAIR ISOLATE MALFUNCTION
4. Primary Boom cylinder will not extend.	4.1 Platform overloaded.	4.1 Reduce maximum capacity to rated load.
	4.2 Hydraulic valve solenoid (PU) defective. (Hydraulic power unit motor will run.)	4.2 Located on top surface of each directional control valve is a window which lights whenever the coil is energized. Check for light or voltage at terminal #46 on printed circuit board. If light or 24 volts present, go to Step 4.4. No light and 24 volts, check solenoid for continuity. Replace if open. If 0 volts, proceed to Step 4.3.
	4.3 Platform Control Primary Boom Toggle Switch (TS2) defective. (Function operational from lower controls.)	4.3 Test voltage at terminal #27. If 24 volts, proceed. If 0 volts, test switch for continuity and replace if open.
	4.4 Diode in printed circuit board (PCB) failed open. (Power unit will not start.)	4.4 Test voltage at terminal #6. If 24 volts, proceed. If 0 volts, test diode for continuity. Replace if open.
	4.5 Primary Boom hydraulic directional control valve spool stuck.	4.5 Manually depress the hydraulic valve spool. If normal operation results, repair or replace valve.
	4.6 Primary Boom hydraulic cylinder seals leaking. (Platform will descend slowly without controller input.)	4.6 Check for signs of leakage. Repair or replace cylinder if necessary.

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SYMPTOM	PROBABLE CAUSE	PROCEDURE TO REPAIR ISOLATE MALFUNCTION
16. Machine will not reverse. (Forward operates proceed normally.)	16.1 Open circuit in controls.	16.1 Test voltage at terminal #8. If 36 volts, go to Step 16.4. If 0 volts, proceed.
	16.2 Open circuit in printed circuit board (PCB) .	16.2 Test voltage at terminal #17. If 36 volts, replace circuit board. If 0 volts, proceed.
	16.3 Reverse switch in accelerator switch assembly defective.	16.3 Test switch for continuity. Replace if open.
	16.4 SCR control defective.	16.4 Refer to The General Electric Troubleshooting Guide in Maintenance Section.
17. Machine will not drive full speed.	17.1 Drive attempted with platform elevated.	17.1 Lower platform completely. Refer to Operating Instructions for proper use.
	17.2 Limit switch (LSI) Located on turntable riser defective.	17.2 Test continuity between terminals 31 and 32 with limit switch wand in held position. 0 resistance indicates switch is good. If 10 K ohms resistance, check wand actuator. Replace switch if failed open.

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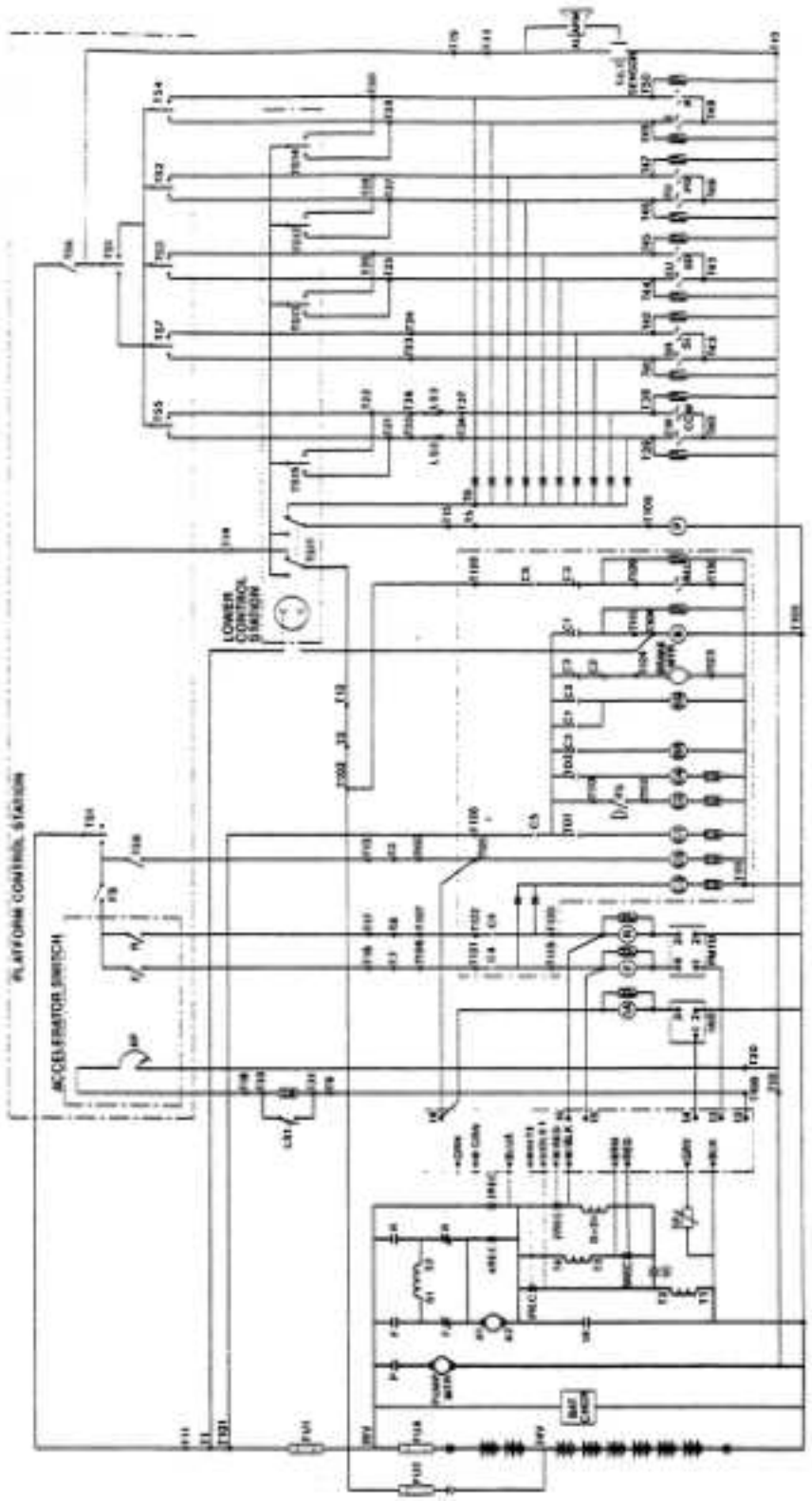


FIGURE 7-17
ELECTRICAL SCHEMATIC

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