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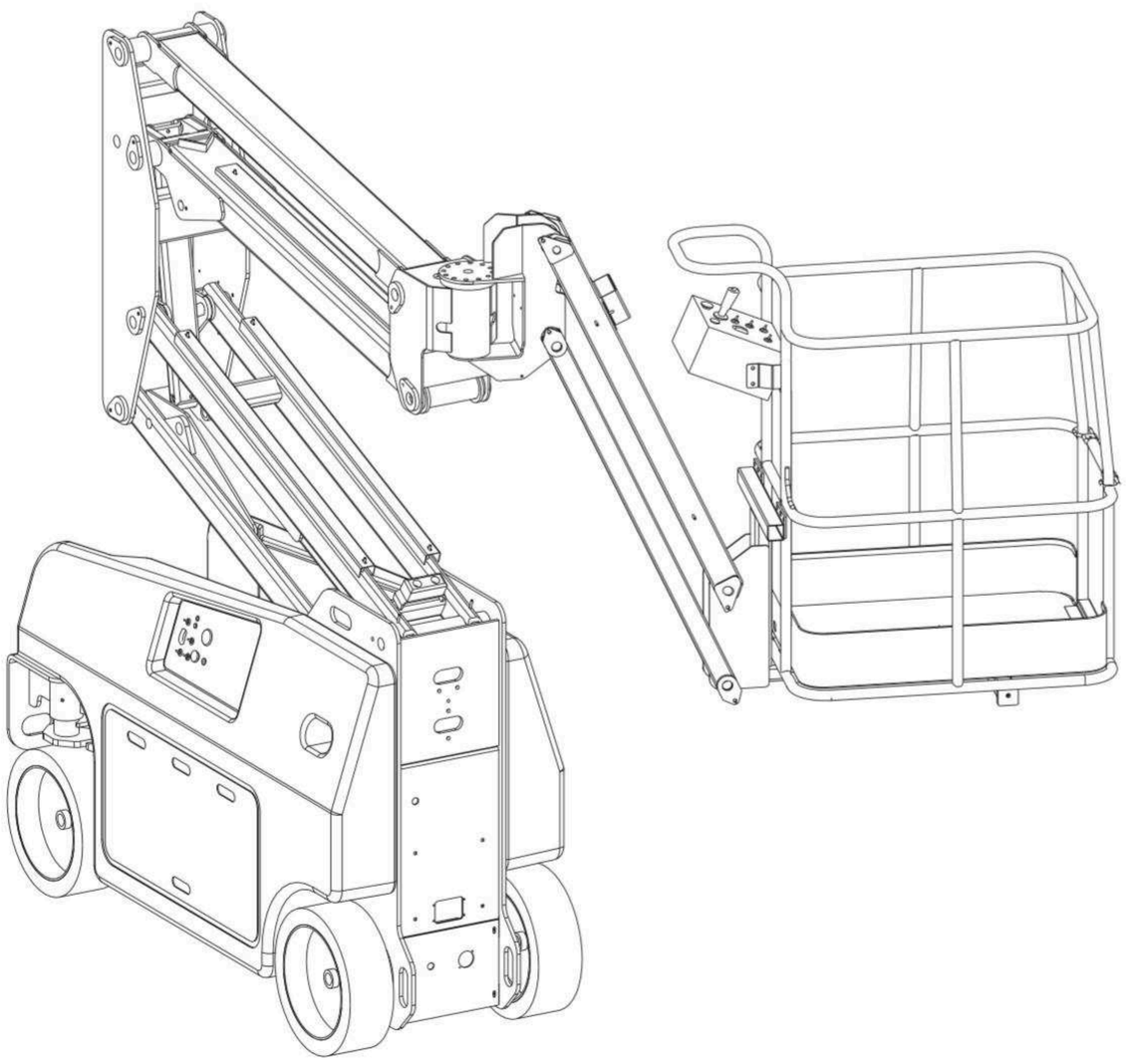
A TEREX COMPANY

Genie® Z-25/8™

Genie® Z-20/8™

Genie® Z-20/8N™

Service Manual



First Edition • Third Printing
Part No. 41314

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Specifications

Machine Specifications Z-25/8 Models

Stowed dimensions		
Length	16 ft	4.9 m
Width	46 in	1.2 m
Height	79 in	2 m
Ground clearance, at machine center at pothole bars	 5 in 2 in	 12.7 cm 5.1 cm
Operational dimensions		
Maximum platform height	25 ft	7.6 m
Maximum platform working height	31 ft	9.4 m
Maximum horizontal reach	7 ft 11 in	2.4 m
Tailswing	18 in	45.7 cm
Noseswing	58 in	147.3 cm
Wheelbase	5 ft 4 in	1.6 m
Minimum turning circle, outside	12 ft 7 in	3.8 m
Minimum turning circle, inside	22 in	56 cm
Jib boom rotation		180°
Jib boom range of motion		144°
Platform dimensions		
Length	30 in	76.2 cm
Width	46 in	116.8 cm
Maximum load capacity	500 lbs	227 kg
Fluid capacities		
Hydraulic tank capacity	8 gallons	30.3 liters
Hydraulic system capacity (including tank)	10 gallons	37.9 liters

Tires and wheels		
Tire size (solid rubber)		18 x 14 x 6 in 46 x 36 x 15 cm
Tire contact area	5.8 sq in	37.4 sq cm
Load range	3200 lbs	1873 Nm
Overall tire diameter	18 in	46 cm
Wheel diameter	14 in	36 cm
Wheel width	6 in	15 cm
Castle nut torque	300 ft-lbs	407 Nm
Gradeability (boom stowed)		20%

Performance Specifications Z-25/8 Models

Drive speeds, maximum		
Boom stowed, high range	2.7 mph 40 ft/11 sec	4.3 km/h 12.2 m/11 sec
Boom stowed, low range	1.4 mph 40 ft/27.3 sec	2.25 km/h 12.2 m/27 sec
Boom raised	0.6 mph 40 ft/52 sec	0.8 km/h 12.2 m/52 sec

Boom function speeds, maximum from platform controls	
Elevate up	27 to 33 seconds
Elevate down	32 to 38 seconds
Jib boom up	27 to 33 seconds
Jib boom down	17 to 23 seconds
Jib rotate, 180°	28 to 34 seconds

Continuous improvement of our products is a Genie policy. Product specifications are subject to change without notice.

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Troubleshooting Flow Charts



Observe and Obey:

- ☑ Troubleshooting and repair procedures shall be completed by a person trained and qualified on the repair of this machine.
- ☑ Immediately tag and remove from service a damaged or malfunctioning machine.
- ☑ Repair any machine damage or malfunction before operating the machine.
- ☑ Unless otherwise specified, perform each repair procedure with the machine in the following configuration:
  - Machine parked on a flat level surface
  - Boom in stowed position
  - Key switch in the OFF position with the key removed
  - Wheels chocked

Before Troubleshooting:

- ☑ Read, understand and obey the safety rules and operating instructions printed in the *Genie Z-20/8N, Z-20/8 and Z-25/8 Operator's Manual.*
- ☑ Be sure that all necessary tools and test equipment are available and ready for use.
- ☑ Read each appropiate flow chart thoroughly. Attempting shortcuts may produce hazardous conditions.
- ☑ Be aware of the following hazards and follow generally accepted safe workshop practices.

⚠DANGER Crushing hazard. When testing or replacing any hydraulic component, always support the structure and secure it from movement.

⚠WARNING Electrocution hazard. Contact with electrically charged circuits may result in death or serious injury. Remove all rings, watches and other jewelry.

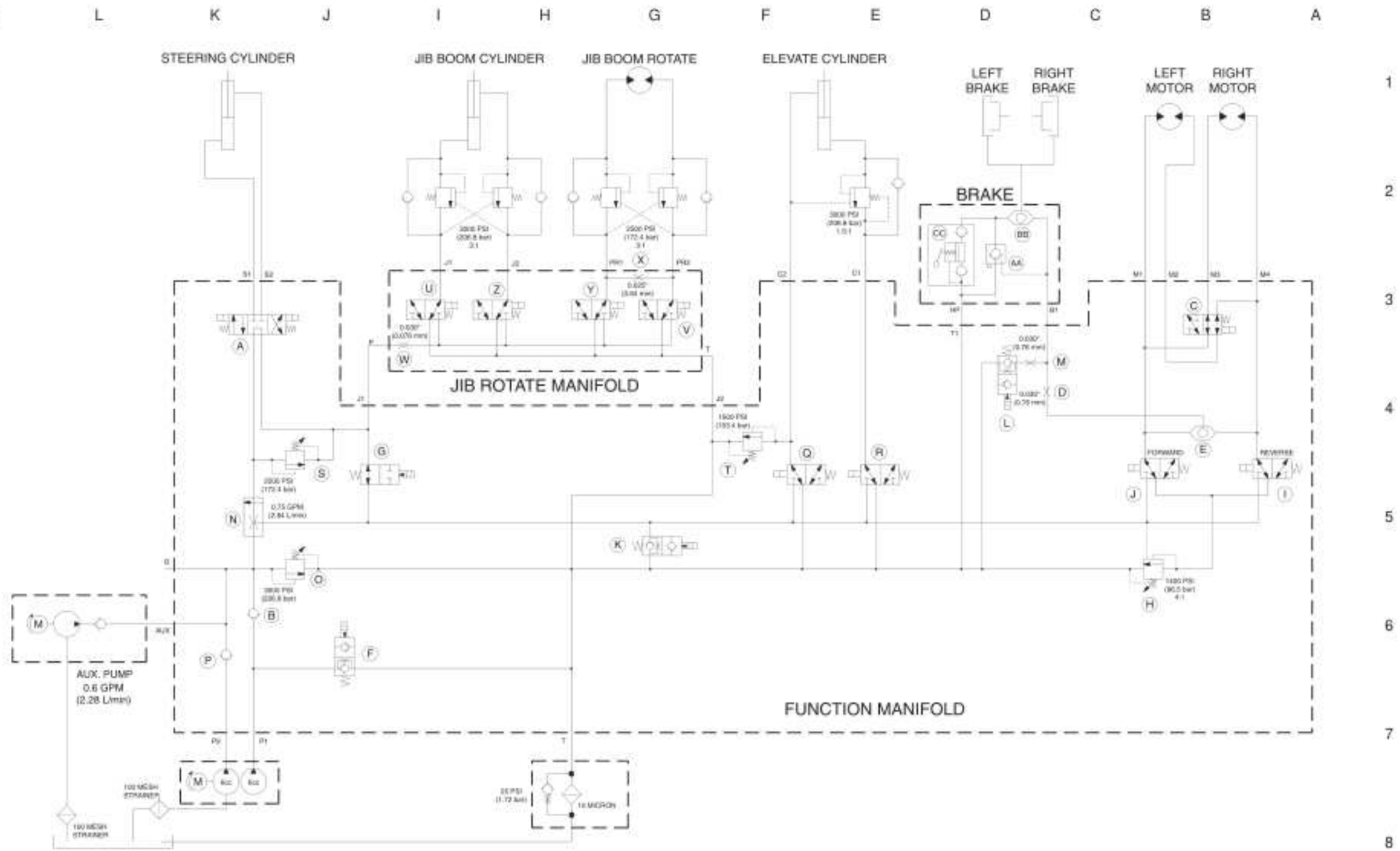
⚠WARNING Bodily injury hazard. Spraying hydraulic oil can penetrate and burn skin. Loosen hydraulic connections very slowly to allow the oil pressure to dissipate gradually. Do not allow oil to squirt or spray.

NOTICE Perform all troubleshooting on a firm level surface.

NOTICE Two persons will be required to safely perform some troubleshooting procedures.

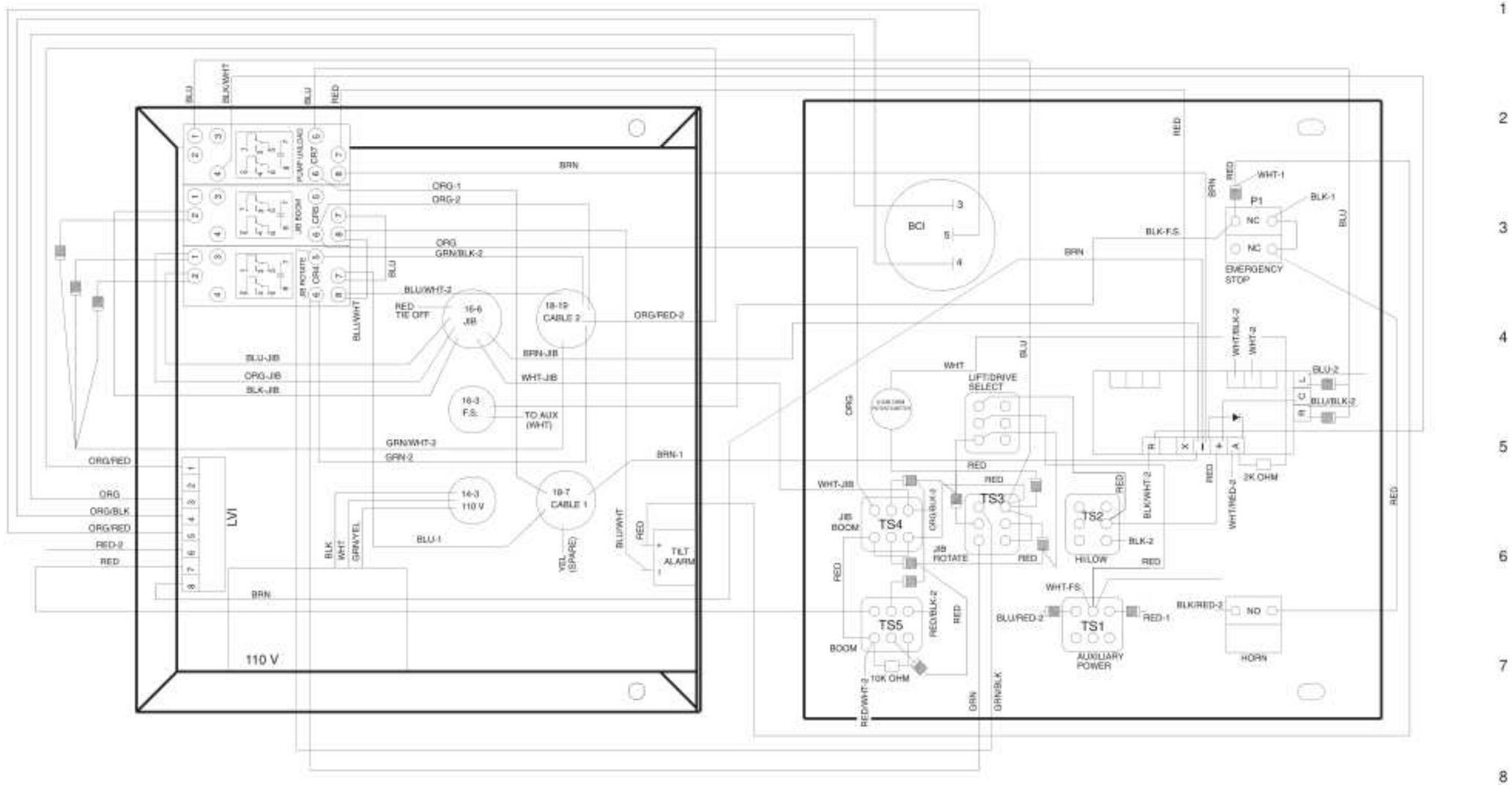
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Hydraulic Schematic, Z-25/8 (before serial number 229), Z-20/8 (before serial number 125), Z-20/8N (before serial number 968)



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Platform Control Box Wiring Diagram, Z-25/8 (after-serial number 228), Z-20/8 (after serial number 124), Z-20/8N (after serial number 967)



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