Genie Industries

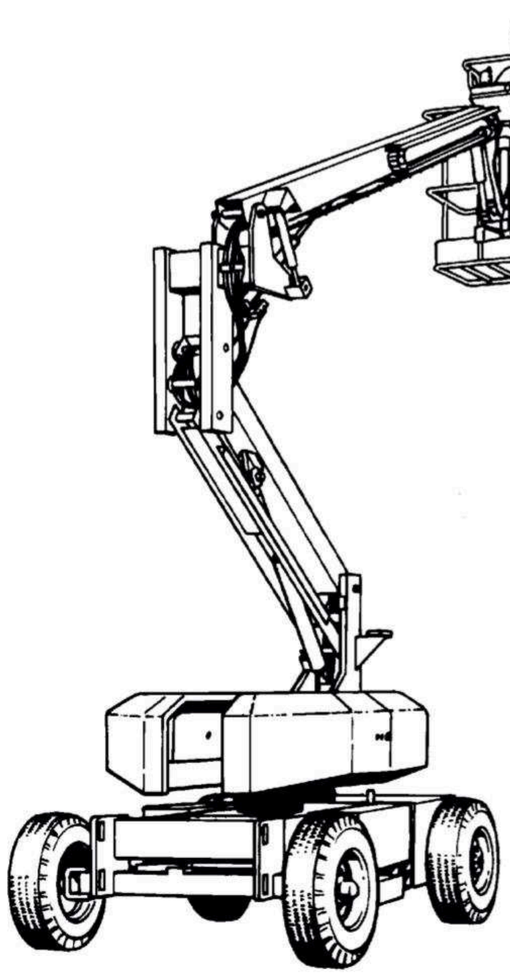
Technical Publications

Genie®

A TEREX COMPANY

# Genie Z-30/20™

# Service Manual



Third Edition, First Printing
Part No. 43063

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# Specifications

## Machine Specifications

| Stowed dimensions | | |
|---|---|---|
| Length | 15 ft 9 in | 4.8 m |
| Width | 5 ft 10 in | 1.8 m |
| Height | 6 ft 7 in | 2 m |
| Machine Weight | 8700 lbs | 3946.3 kg |
| Ground clearance | 7.38 in | 18.7 cm |
| **Operational dimensions** | | |
| Maximum platform height | 31 ft | 9.4 m |
| Maximum platform working height | 38 ft | 11.6 m |
| Maximum horizontal reach | 20 ft | 6.1 m |
| Maximum turntable tailswing | 14 in | 35.6 cm |
| Wheelbase | 6 ft | 1.8 m |
| Minimum turning radius, outside | 13 ft 9 in | 4.2 m |
| Minimum turning circle, inside | 6 ft 4 in | 1.9 m |
| Turntable rotation | | 359° |
| Platform rotation | | 130° |

| Tires and wheels | | |
|---|---|---|
| Tire size | | 9-14.5 LT |
| Load range | | F |
| Tire contact area | 43.5 sq in | 280 sq cm |
| Overall tire diameter | 28 in | 71 cm |
| Wheel diameter | 14.5 in | 36.8 cm |
| Wheel width | 7 in | 17.8 cm |
| **Wheel lugs** | | |
| Front | | 8 @ 5/8-18 |
| Rear | | 9 @ 5/8-18 |
| Lug nut torque | 125 ft-lbs | 169.5 Nm |
| **Platform dimensions** | | |
| Length | 48 in | 121.9 cm |
| Width | 30 in | 76.2 cm |
| Maximum capacity | 500 lbs | 227 kg |
| **Fluid Capacities** | | |
| Hydraulic tank capacity | 2.5 gallons | 9.5 liters |
| Hydraulic system capacity (including tank) | 4 gallons | 15.1 liters |

**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
  - Turntable rotated with the boom between the non-steering wheels
  - 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-30/20 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.

**⚠DANGER** 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.

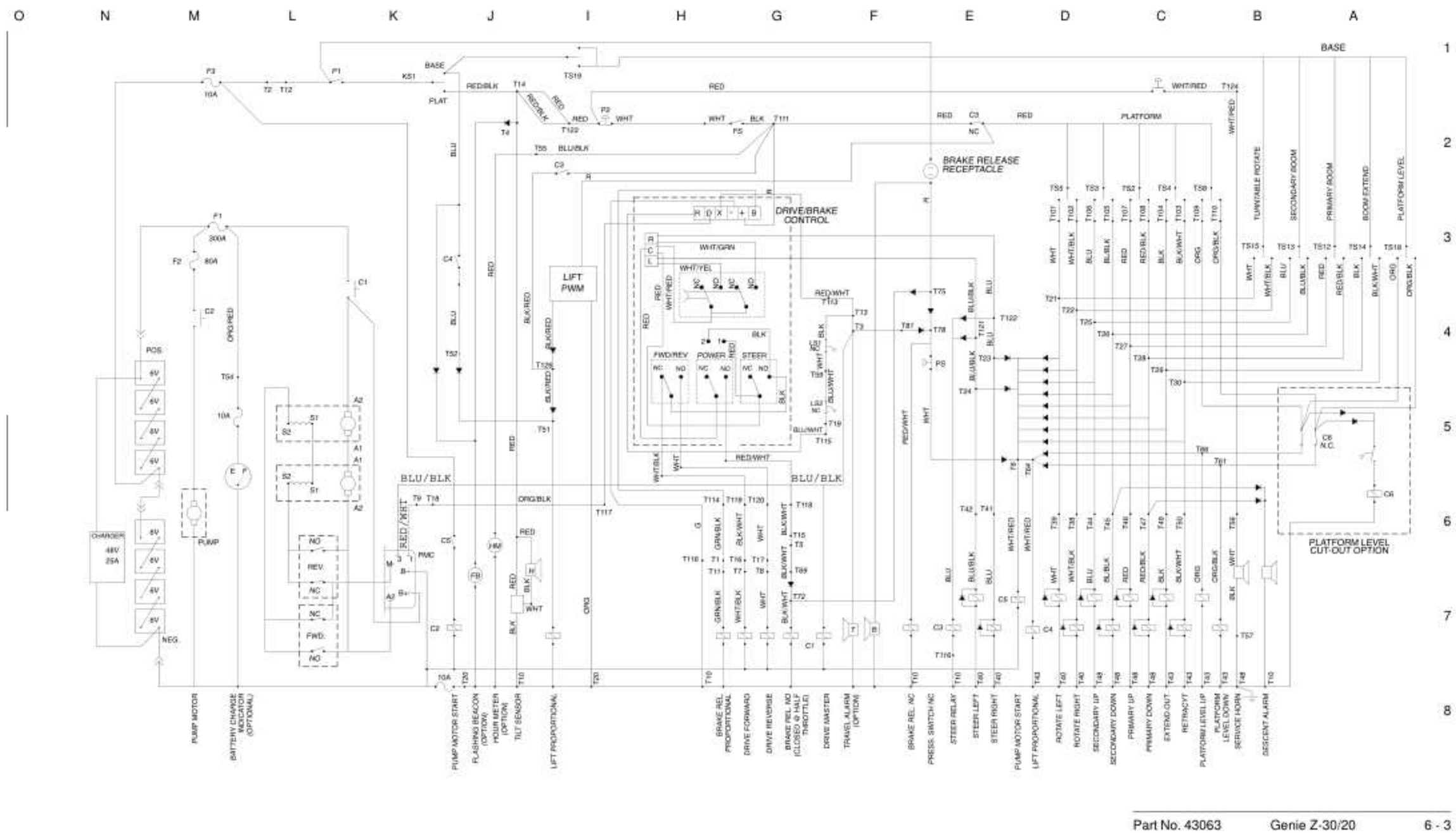
**NOTICE** Perform all troubleshooting on a firm level surface.

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



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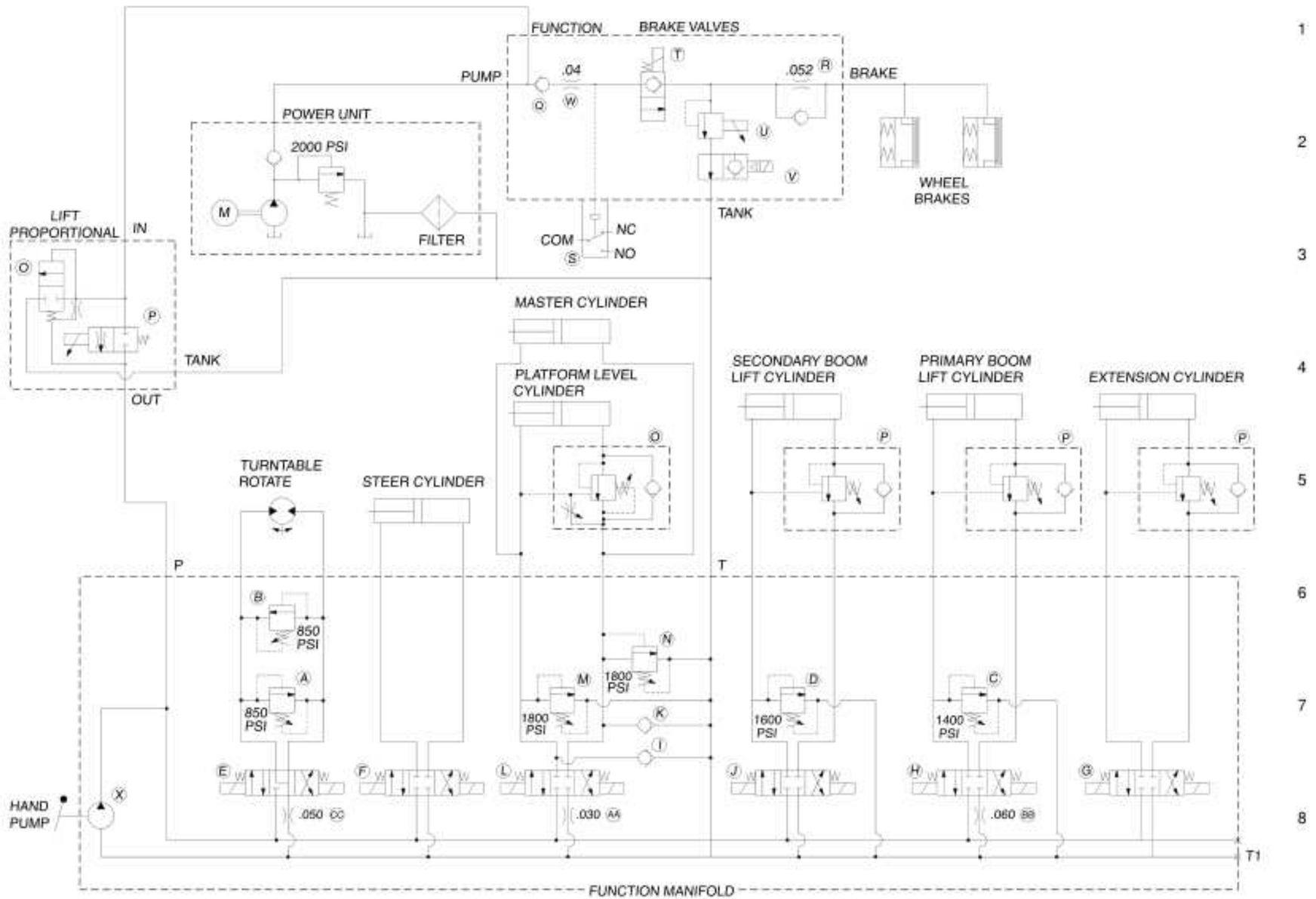
# Electrical Schematic






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# Hydraulic Schematic






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