A TEREX COMPANY

Service and Repair Manual

	Serial Number Range
S-100[¥]	from S-10015D-1001 to S-10016D-1549
S-105[¥]	from S-10515D-983 to S-10516D-1549
S-120[®]	from S-12015D-1012 to S-12016D-1549
S-125[®]	from S-12515D-984 to S-12516D-1549
	from S-100D-1550 from S-105D-1550 from S-120D-1550 from S-125D-1550

This manual includes:
Repair procedures
Fault Codes
Electrical and Hydraulic Schematics

For detailed maintenance procedures, Refer to the appropriate Maintenance Manual for your machine.

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Specifications

Machine Specifications, S-120 and S-125 Models

Stowed dimensions	S-120	S-125
Length, transport position	39 ft 11 in 12.17 m	39 ft 11 in 12.17 m
Length, stowed	42 ft 8 in 13 m	46 ft 9 in 14.25 m
Width, axles retracted	8 ft 2 in 249 cm	8 ft 2 in 249 cm
Width, axles extended	11 ft 335 cm	11 ft 335 cm
Height, stowed maximum	10 ft 1 in 308 cm	10 ft 1 in 308 cm
Weight	44,340 lbs 20,112 kg	44,640 lbs 20,248 kg
Ground clearance	15 3/4 in 40 cm	15 3/4 in 40 cm
Operational dimensions		
Platform height, maximum	120 ft 36.6 m	125 ft 38.1 m
Working height, maximum	126 ft 38.4 m	131 ft 39.9 m
Horizontal reach maximum	75 ft 22.9 m	80 ft 24.4 m
Maximum load capacity	750 lb 340 kg	500 lb 227 kg
Turntable tailswing, axles retracted	66 in 168 cm	66 in 168 cm
Turntable tailswing axles extended	48 in 122 cm	48 in 122 cm
Wheelbase	12 ft 366 cm	12 ft 366 cm
Turning radius, outside, axles retracted	22 ft 2 in 6.75 m	22 ft 2 in 6.75 m
Turning radius, inside, axles retracted	13 ft 2 in 4.01 m	13 ft 2 in 4.01 m
Turning radius, outside, axles extended	18 ft 10 in 5.74 m	18 ft 10 in 5.74 m
Turning radius, inside, axles extended	8 ft 6 in 2.59 m	8 ft 6 in 2.59 m
Turntable rotation (degrees)	360° continuous	
Platform rotation	160°	
Maximum allowable side force (ANSI and CSA)	150 lbs 667 N	
Maximum allowable side force (CE)	90 lbs 400 N	
Controls	12V DC proportional	
Platform dimensions		
Length	96 in 244 cm	
Width	36 in 91 cm	
Tires and wheels		
Tire size	445/65D22.5, FF	
Tire ply rating	18	
Tire weight, new foam-filled (minimum)	815 lbs 370 kg	
Overall tire diameter	46.5 in 118 cm	
Wheel diameter	22.5 in 57 cm	
Wheel width	13 in 33 cm	
Wheel lugs	10 @ 3/4 -16	
Lug nut torque, dry	420 ft-lbs 570 Nm	
Lug nut torque, lubricated	320 ft-lbs 434 Nm	

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Diagnostic Codes



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 firm, level surface
  - Boom in stowed position
  - Turntable rotated with the boom between the non-steer wheels
  - Turntable secured with the turntable rotation lock
  - Key switch in the off position with the key removed
  - Wheels chocked
  - All external AC power disconnected from the machine

Before Troubleshooting:

- ☑ Read, understand and obey the safety rules and operating instructions printed in the *Genie S-100, S-105, S-120, S-125 Operator's Manual*.
- ☑ Be sure that all necessary tools and test equipment are available and ready for use.
- ☑ Read each appropiate fault code 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/burn hazard. Contact with electrically charged circuits could 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.

Note: Perform all troubleshooting on a firm, level surface.

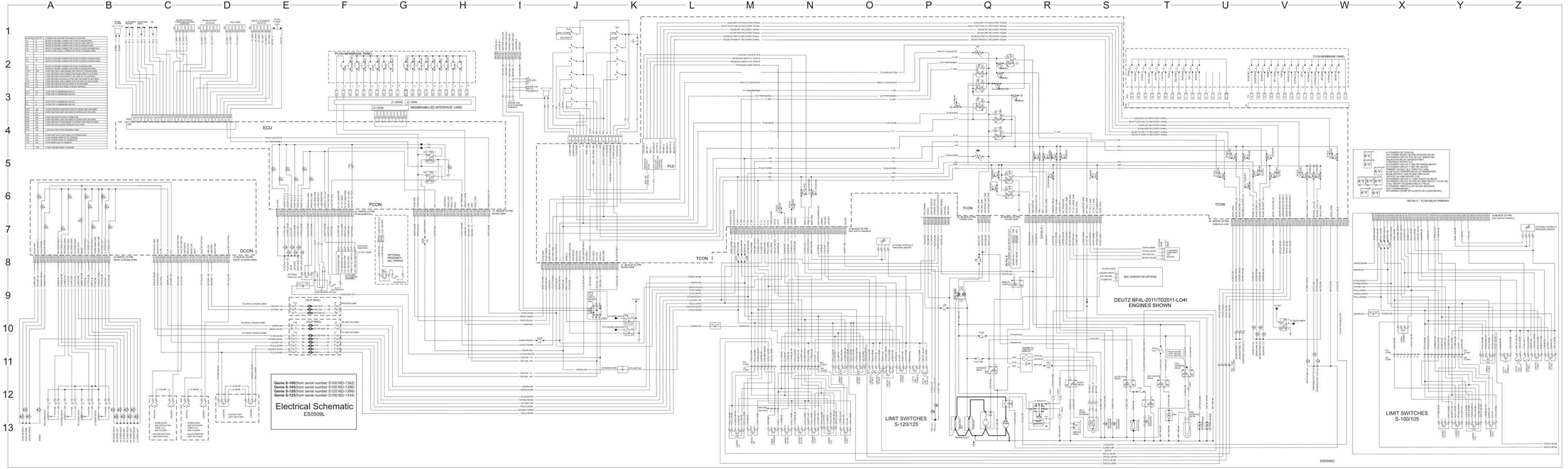
Note: Two persons will be required to safely perform some troubleshooting procedures.

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Hydraulic Schematic, S-120 • S-125 Models
(from serial number 1195 to serial number 2634)



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