A TEREX COMPANY

Service Manual

Serial Number Range

Z-80/60™

from Z80-101 to Z8013-4591

Part No. 88619

Rev F3

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Specifications

REV G

Machine Specifications

Tires and wheels	
Tire size (foam filled and non-marking)	18-625 FF
Tire size (Hi-flotation)	445D50/70
Tire ply rating (foam filled and non-marking)	16
Tire weight, new foam-filled (minimum) (Rough terrain)	622 lbs 282 kg
Tire ply rating (Hi-flotation)	14
Overall tire diameter (foam filled and non-marking)	40.7 in 103.3 cm
Overall tire diameter (Hi-flotation)	45.47 in 115.5 cm
Wheel diameter (foam filled and non-marking)	24.5 in 62.2 cm
Wheel diameter (Hi-flotation)	28 in 71.1 cm
Wheel width (foam filled, non-marking and Hi-flotation)	15 in 38.1 cm
Tire Pressure (Hi-flotation)	80 lbs / 5.5 bar
Wheel lugs	10 @ 3/4-16
Lug nut torque, lubricated	320 ft-lbs 434 Nm
Lug nut torque, dry	420 ft-lbs 570 Nm

Fluid capacities	
Fuel tank	35 gallons 132.5 liters
LPG tank	33.5 lbs 15.2 kg
Hydraulic tank	45 gallons 170 liters
Hydraulic system (including tank)	80 gallons 303 liters
Drive hubs (before serial number 958)	50 fl oz 1.5 liters
Drive hubs (after serial number 957)	44 fl oz 1.3 liters
Turntable rotation drive hub	40 fl oz 1.2 liters
Drive hub oil type:	EP 80-90W gear oil API Service Classification GL5

For operational specification, refer to the Operator's Manual.

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

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Continental Engine ECM Fault Code Chart

REV B

System	Code	Fault Name	Shutdown	Adaptive Learn	Adaptive Learn KC*	Power Derate 1	Power Derate 2	Low Rev Limit	Fault Conditions
MAP	**108**	MAP Pressure High		Y	Y				MAP pressure > 16 psi and TPS < 10% and RPM > 1800 To Unlatch, MAP pressure must be < 10 psi
	107	MAP Voltage Low		Y	Y				MAP voltage < 0.05 vdc and TPS > 2% and RPM < 7000 To Unlatch, MAP voltage must be > 0.5 vdc
ECT/ CHT	**118**	ECT Voltage High		Y					ECT voltage > 4.95 vdc
	117	ECT Voltage Low		Y					ECT voltage < 0.05 vdc
	116	ECT higher than expected 1		Y	Y	Y			ECT > 210° F and RPM > 600
	217	ECT higher than expected 2	**Y**						ECT > 230° F and RPM > 600
IAT	**113**	IAT Voltage High		Y					IAT voltage > 4.95 vdc
	112	IAT Voltage Low		Y					IAT voltage < 0.05 vdc
	111	IAT higher than expected 1		Y		Y			IAT > 200° F and RPM > 1000
	127	IAT higher than expected 2	**Y**						IAT > 210° F and RPM > 1000
BP	**2229**	BP Pressure High		Y	Y				BP pressure > 16 psi
	129	BP Pressure Low		Y	Y				BP pressure < 8.3 psi
Battery Voltage	**563**	Voltage High		Y	Y				Voltage > 18 vdc
	562	Voltage Low		Y	Y				Voltage < 9.5 vdc and RPM > 1500
5V External	**643**	5VE1 High Voltage		Y					5VE1 > 5.4 vdc
	642	5VE1 Low Voltage		Y					5VE1 < 4.6 vdc
TPS	**123**	TPS1 High Voltage	**Y**						TPS1 voltage > 4.8 vdc
	122	TPS1 Low Voltage	**Y**						TPS1 voltage < 0.2 vdc
	223	TPS2 High Voltage	**Y**						TPS2 voltage > 4.8 vdc
	222	TPS2 Low Voltage	**Y**						TPS2 voltage < 0.2 vdc
	221	TPS1 > than TPS2	**Y**						(TPS1 percent - TPS2 percent) > 20%
	121	TPS1 < than TPS2	**Y**						(TPS1 percent - TPS2 percent) < -20%
	2112	Unable to reach > TPS	**Y**						(target TPS - actual TPS) > 20%
	2111	Unable to reach < TPS	**Y**						(target TPS - actual TPS) < -20%
	2135	TPS1/2 simultaneous voltages out of range	**Y**						Uses same parameters as individual TPS1/2 voltage fault detection above

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Hydraulic Schematic

REV D

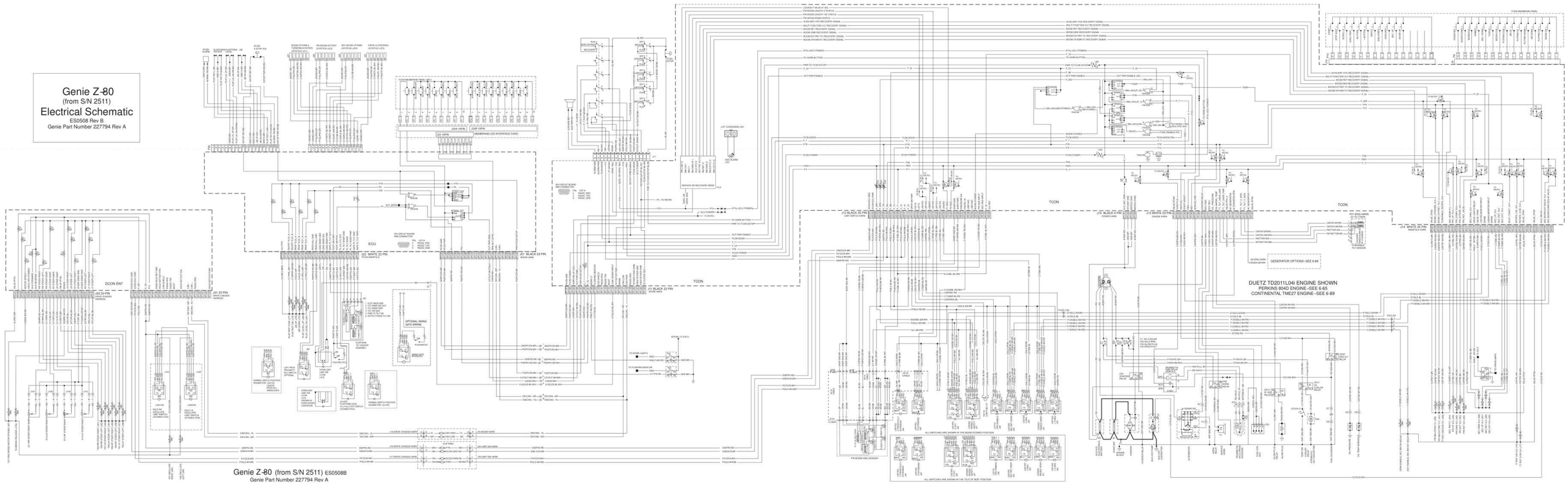
2 Wheel Drive (2 and 4 Wheel Steer)
(before serial number 990)

Note: 'alpha' callouts refer to components shown in the manifold illustrations. Refer to the Repair Section.

	RATIO	PRESSURE
A	3:1	1000 psi / 69 bar
B	1.5:1	2000 psi / 138 bar
C	3:1	2000 psi / 138 bar
D	3:1	2500 psi / 172 bar
E	3:1	3000 psi / 207 bar
F	3:1	3300 psi / 227.5 bar
G	1.5:1	3500 psi / 241.3 bar
H	3:1	3500 psi / 241.3 bar

COUNTERBALANCE VALVE

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