Genie®
A TEREX COMPANY

Service and Repair Manual

	Serial Number Range
S®-80 XC™	from S80XCH-101 from S80XCD-101
S®-80 HF	
S®-85 XC™	from S85XCH-101 from S85XCD-101
S®-85 HF	

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

Tires and wheels Rough Terrain and Non Marking	
Tire size	18-625 FF
Tire ply rating	16 ply
Overall tire diameter	40.7 in 103.3 cm
Tire pressure	Foam filled
Wheel diameter	24.5 in 62.2 cm
Wheel width	15 in 38.1 cm
Tire weight, new foam filled (minimum)	622 lbs 282 kg
High Flotation	
Tire size	41/18LL
Tire ply rating	20 ply
Overall tire diameter	41.2 in 104.6 cm
Tire pressure	100 psi 6.89 bar
Wheel diameter	22.5 in 57.2 cm
Wheel width	14 in 35.6 cm
Tire weight	250 lbs 113.4 kg

Lugs and Lug Nut Torque	
Wheel lugs	11 @ 3/4 - 16
Lug nut torque, dry	420 ft-lbs 569 Nm
Lug nut torque, lubricated	320 ft-lbs 434 Nm

Fluid capacities	
Fuel tank, Diesel models	35 gallons 132.5 liters
Fuel tank, Gas models	30 gallons 113.5 liters
LPG tank	33.5 lbs 15.2 kg
Hydraulic tank	40 gallons 151 liters
Hydraulic system (including tank)	64 gallons 242 liters
Turntable rotation drive hub (single fill port)	40 fl oz 1183 cc
Turntable rotation drive hub (dual fill port)	43 fl oz 1262 cc
Drive hubs four wheel drive	48 fl oz 1420 cc

Drive hub oil type: SAE 90 multipurpose hypoid gear oil API service classification GL5

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GM 3.0L Engine Fault Codes

Description	DTC Set 2 SPN-2/FMI-2	Description	DTC Set 2 SPN-2/FMI-2
DTC 11: Intake cam / distributor position error	520800 / 7	DTC 221: TPS1-2 higher than expected	653/6
DTC 16: Crank and/or cam no sync during start	636 / 8	DTC 222: TPS2 voltage low	520251 / 4
DTC 24: Exhaust cam position error	520801 / 7	DTC 223: TPS2 voltage high	520251 / 3
DTC 87 Fuel pressure lower than expected	94 / 1	DTC 234: Boost control overboost failure	1692 / 0
DTC 88 Fuel pressure higher than expected	94 / 0	DTC 236: TIP active	1692 / 2
DTC 91: FP low voltage	94 / 4	DTC 237: TIP low voltage	1127 / 4
DTC 92: FP high voltage	94 / 3	DTC 238: TIP high voltage	1127 / 3
DTC 107: MAP voltage low	106 / 4	DTC 261: Injector 1 open or short to ground	651 / 5
DTC 108: MAP pressure high	106 / 16	DTC 262: Injector 1 coil shorted	651 / 6
DTC 111: IAT higher than expected stage 1	105 / 15	DTC 264: Injector 2 open or short to ground	652 / 5
DTC 112: IAT voltage low	105 / 4	DTC 265: Injector 2 coil shorted	652 / 6
DTC 113: IAT voltage high	105 / 3	DTC 267: Injector 3 open or short to ground	653 / 5
DTC 116: ECT higher than expected stage 1	110 / 15	DTC 268: Injector 3 coil shorted	653/6
DTC 117: ECT voltage low	110 / 4	DTC 270: Injector 4 open or short to ground	654 / 5
DTC 118: ECT voltage high	110 / 3	DTC 271: Injector 4 coil shorted	654 / 6
DTC 121: TPS1-2 lower than expected	51 / 1	DTC 273: Injector 5 open or short to ground	655 / 5
DTC 122: TPS1 voltage low	51 / 4	DTC 274: Injector 5 coil shorted	655 / 6
DTC 123: TPS1 voltage high	51 / 3	DTC 276: Injector 6 open or short to ground	656 / 5
DTC 127: IAT higher than expected stage 2	105 / 0	DTC 277: Injector 6 coil shorted	656 / 6
DTC 129: BP pressure low	108 / 1	DTC 279: Injector 7 open or short to ground	657 / 5
DTC 134: EGO1 open / lazy	724 / 10	DTC 280: Injector 7 coil shorted	657 / 6
DTC 140: EGO3 open / lazy	520209 / 10	DTC 282: Injector 8 open or short to ground	658 / 5
DTC 154: EGO2 open / lazy	520208 / 10	DTC 283: Injector 8 coil shorted	658 / 6
DTC 160: EGO4 open / lazy	520210 / 10	DTC 285: Injector 9 open or short to ground	659 / 5
DTC 171: Adaptive-learn gasoline bank1 high	520200 / 0	DTC 308: Cylinder 8 emissions/catalyst damaging misfire	1330 / 31
DTC 172: Adaptive-learn gasoline bank1 low	520200 / 1	DTC 326: Knock1 excessive or erratic signal	731 / 2
DTC 174: Adaptive-learn gasoline bank2 high	520201 / 0	DTC 327: Knock1 sensor open or not present	731 / 4
DTC 175: Adaptive-learn gasoline bank2 low	520201 / 1	DTC 331: Knock2 excessive or erratic signal	520241 / 2
DTC 182: FT low voltage	174 / 4	DTC 332: Knock2 sensor open or not present	520241 / 4
DTC 183: FT high voltage	174 / 3	DTC 336: CRANK input signal noise	636 / 2
DTC 187: Gaseous fuel temp sender low voltage	520240 / 4	DTC 337: Crank signal loss	636 / 4
DTC 188: Gaseous fuel temp sendr high voltage	520240 / 3	DTC 341: CAM input signal noise	723 / 2
DTC 217: ECT higher than expected stage 2	110 / 0	DTC 342: Loss of CAM input signal	723 / 4
DTC 219: RPM higher than max allowed govern speed	515 / 15	DTC 359: Fuel run-out longer than expected	1239 / 7

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Electrical Schematic, Turntable Controller

(to serial number S80XCH-513, S85XCH- 518)

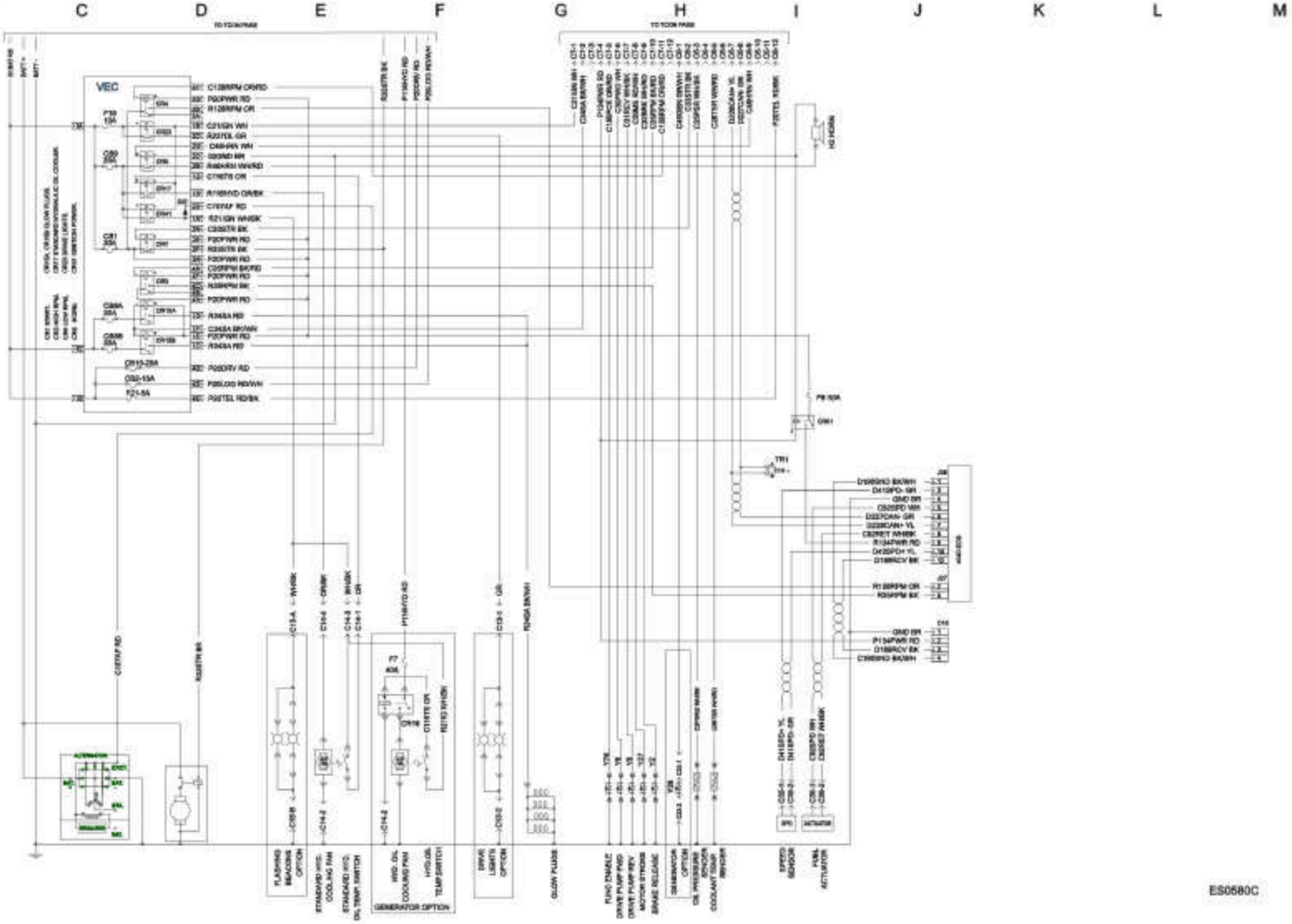


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Electrical Schematic

Perkins 404D-22T Engine



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