A TEREX COMPANY

Service and Repair Manual

ZX®-135/70

Serial Number Range

from ZX13514-2533 to
ZX13516H-3199
Includes:
ZX13514-2463
ZX13514-2469
ZX13514-2631

ZX135H-3200 to
ZX135H-4000

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	
Tire size	445D50/710, 18PR
Tire ply rating	18
Tire weight, new foam-filled (minimum)	800 lbs 363 kg
Overall tire diameter	45.47 in 115.5 cm
Wheel diameter	28 in 71.1 cm
Wheel width	15 in 38.1 cm
Wheel lugs	10 @ 3/4 -16
Lug nut torque, dry (before sn 15-2585)	420 ft-lbs 569.4 Nm
Lug nut torque, lubricated (before sn 15-2585)	320 ft-lbs 433.9 Nm
Lug nut torque, dry, dull gray (from sn 15-2585	320 ft-lbs 433.9 Nm
Fluid capacities	
Fuel tank	40 gallons 151.4 liters
Hydraulic tank	65 gallons 246 liters
Hydraulic system (including tank)	123 gallons 466 liters
Drive hubs	47 fl oz 1390 cc
Turntable rotation drive hub	40 fl oz 1183 cc
Drive hub oil type: SAE 90 multipurpose hypoid gear oil API service classification GL5	

Performance Specifications

Drive speed, maximum	
Stowed position, high speed	3.0 mph 4.8 km/h 40 ft / 9.1 sec 12.2 m / 9.1 sec
Raised or extended	0.7 mph 1.1 km/h 40 ft / 40 sec 12.2 m / 40 sec
Primary and Secondary booms raised, and Primary and Jib extended	0.4 mph 0.6 km/h 40 ft / 68 sec 12.2 m / 68 sec
Braking distance, maximum	
High range on paved surface	3 to 6 ft 1 to 2 m
Gradeability	See Operator's Manual

Boom function speeds, maximum from platform controls	
Jib boom up/down	38 to 43 seconds
Jib boom extend/retract	28 to 38 seconds
Primary boom up/down -60° to +70°	110 to 125 seconds
Primary boom extend/retract	35 to 48 seconds
Secondary boom up/down	80 to 95 seconds
Secondary boom extend/retract	88 to 98 seconds
Turntable rotate, 360° fully stowed	88 to 92 seconds
Turntable rotate, 360°jib or primary booms extended	160 to 180 seconds
Turntable rotate, 360°jib and primary booms extended	280 to 350 seconds

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

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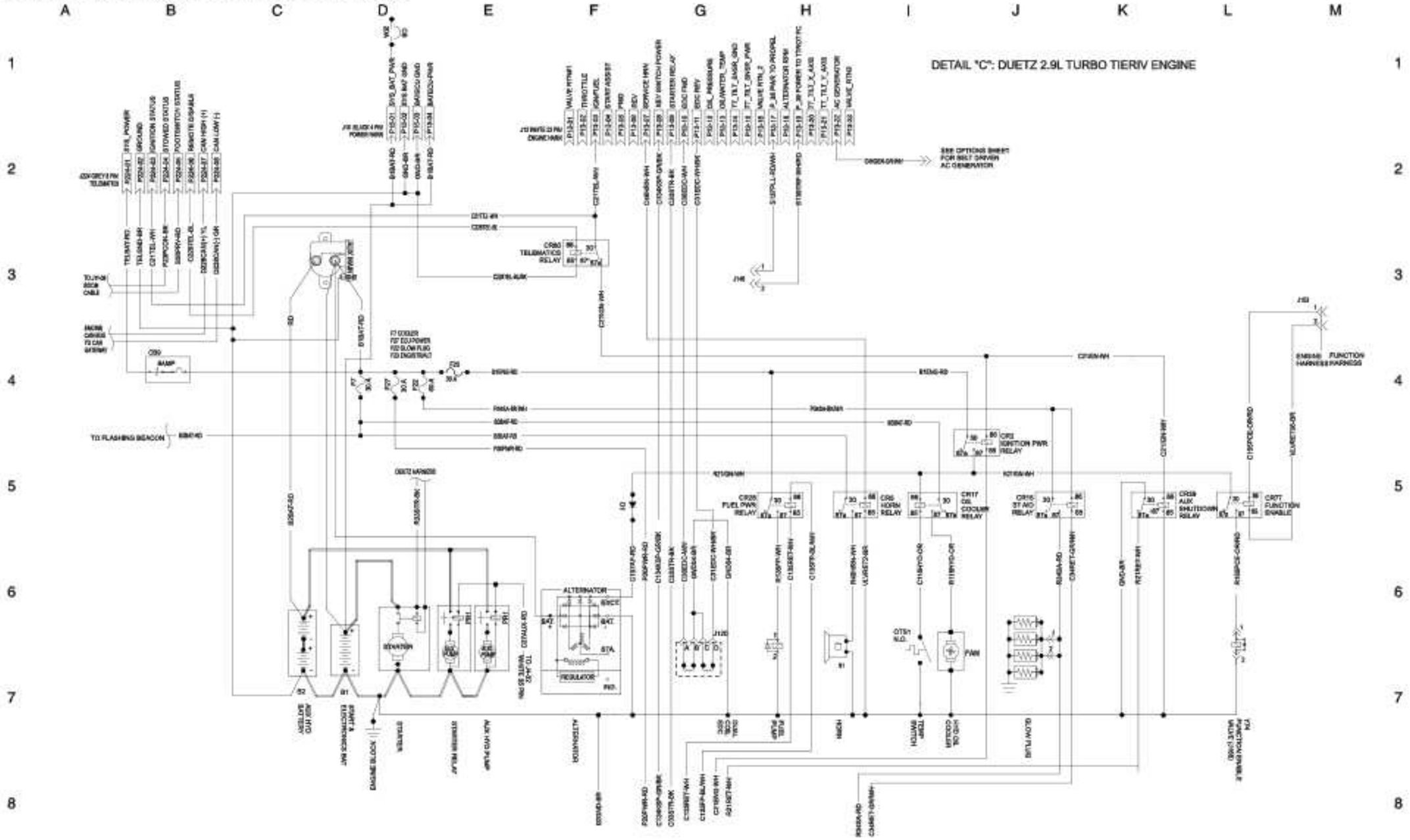
Perkins 854F-34T Engine Fault Code

SPN = Suspect Parameter Number
FMI = Failure Mode Identifier

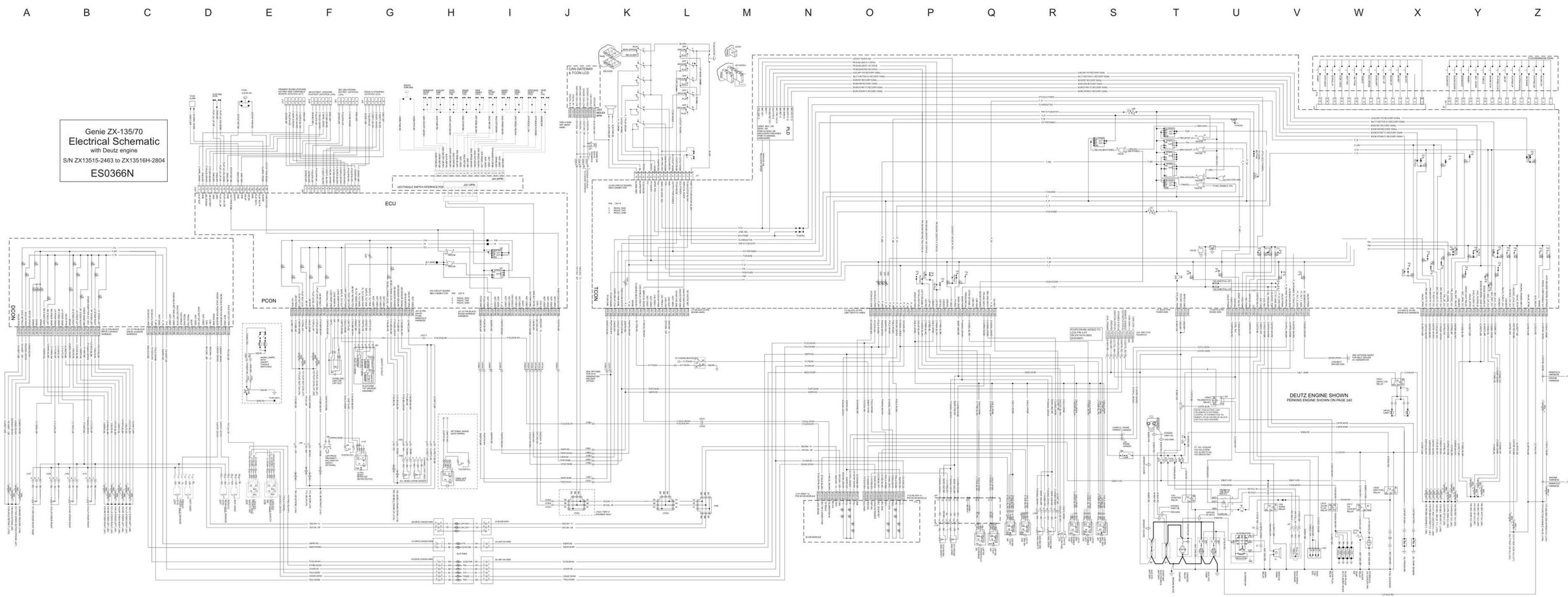
SPN	FMI	Description	Refer to Engine Manual
1076	2	Engine Fuel Injection Pump Fuel Control Valve :Erratic, Intermittent, or Incorrect	Solenoid Valve - Test
1076	5	Engine Fuel Injection Pump Fuel Control Valve :Current Below Normal	Solenoid Valve - Test
1076	6	Engine Fuel Injection Pump Fuel Control Valve :Current Above Normal	Solenoid Valve- Test
1081	5	Engine Wait to Start Lamp :Current Below Normal	Indicator Lamp Circuit - Test
1081	6	Engine Wait to Start Lamp :Current Above Normal	Indicator Lamp Circuit- Test
1127	16	Engine Turbocharger 1 Boost Pressure : High - moderate severity (2)	Intake Manifold Air Pressure Is High
1127	18	Engine Turbocharger 1 Boost Pressure :Low - moderate severity (2)	Intake Manifold Air Pressure Is Low
1188	5	Engine Turbocharger Wastegate Actuator 1 Position :Current Below Normal	Solenoid Valve - Test
1188	6	Engine Turbocharger Wastegate Actuator 1 Position :Current Above Normal	Solenoid Valve - Test
1209	3	Engine Exhaust Gas Pressure :Voltage Above Normal	Engine Pressure Sensor Open or Short Circuit - Test
1209	4	Engine Exhaust Gas Pressure :Voltage Below Normal	Engine Pressure Sensor Open or Short Circuit- Test
1221	2	Continuously Monitored Systems Support/Status :Erratic,Intermittent,or Incorrect	ECM Memory- Test
1221	14	Continuously Monitored Systems Support/Status : Special Instruction	Another diagnostic code has requested engine speed limitation. The warning lamp will flash.The engine speed is limited to 1200rpm. Troubleshoot all other diagnostic codes.No troubleshooting is required for this diagnostic code.
1239	0	Engine Fuel Leakage 1 :High- most severe (3)	Fuel Rail Pressure Problem
1485	7	ECM Main Relay :Not Responding Properly	Electrical Power Supply- Test
1485	14	ECM Main Relay :Special Instruction	Electrical Power Supply- Test

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Deutz TD2.9 Engine Electrical Schematic



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