



Service and Repair Manual

Serial Number Range

S[®]-80 XC[™]

from S80XCH-3101

S[®]-80 HF

S[®]-85 XC[™]

from S85XCH-3091
from S85XCD-2002

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.

Original Instructions
Part No. 1315679GT
Rev A
April 2022

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Table of Contents

Section 4	Fault Codes.....	96
	Introduction	96
	Control System Fault Codes	97
	How to Retrieve Control System Fault Codes	97
	Control System Fault Codes	98
	Engine Fault Codes	116
	Deutz TD 2.9 L4 Teir IV Engine Fault Codes.....	117
	Deutz TCD 2.2 L3, TD 2.9 L4 Stage IV Engine Fault Codes.....	128
	Perkins 404-22 Engine Fault Codes.....	138
	GM 3.0L Engine Fault Codes.....	140
<hr/>		
Section 5	Schematics	145
	Introduction	145
	Electrical Symbol Legend	146
	Hydraulic Symbols Legend	147
	Limit Switch Location Legend	148
	Engine Relay Layout - Deutz TD 2.9 L4, TCD 2.2 L3	149
	Engine Relay Layout - Deutz TD2011L04i	150
	Engine Relay Layout - Perkins 404D-22T	151
	Engine Relay Layout - GM 3.0L	152
	Connector Pin Legend	153



Specifications

Deutz TD 2.9 L4 Engine

Displacement	177 cu. in 2,9 liters
Number of cylinders	4
Bore and Stroke	3.6 x 4.3 in 92 x 110 mm
Horsepower net intermittent @ 2600 rpm	74.2 hp 55 kW
Induction system	turbocharged
Firing order	1 - 3 - 4 - 2
Low idle, standby	1000 rpm
Low idle, function enable	1500 rpm
High idle	2500 rpm
Compression ratio	17.4:1
Compression pressure (psi or bar) of the lowest cylinder must be at least 75% of the highest cylinder	
Governor	electronic
Valve clearance, cold	
Intake	0.012 in 0,3 mm
Exhaust	0.020 in 0,5 mm
Lubrication system	
Oil pressure, hot (@ 2000 rpm)	40 - 60 psi 2,8 - 4,1 bar
Oil capacity (including filter)	12.8 quarts 12,1 liters
Oil viscosity requirements	Low ash oil required
-22°F to 86°F / -30°C to 30°C	5W-30 (synthetic)
-4°F to 104°F / -20°C to 40°C	10W-40
Above 5°F / -15°C	15W-40

Unit ships with 15W-40. Extreme operating temperatures may require the use of alternative engine oils. For oil requirements, refer to the Engine Operator Manual for your engine.

Oil Temperature sender	
Installation torque	8 - 18 ft-lbs 11 - 24 Nm
Oil Pressure sender	
Installation torque	8 - 18 ft-lbs 11 - 24 Nm
Fuel injection system	
	Motorpal
Injection pump pressure, maximum	15,000 psi 1034 bar
Injector opening pressure	3046 psi 210 bar
Fuel requirement	
For fuel requirements, refer to the engine Operator Manual for your engine.	
Starter motor	
Current draw, normal load	140 - 200A
Cranking speed	250 - 350 rpm
Battery – Engine starting and control system	
Type	12V DC, Group 31
Quantity	2
Battery capacity, maximum	1000A
Reserve capacity @ 25A rate	200 minutes
Alternator output	95A @ 14V DC
Fan belt deflection	3/8 - 1/2 in 9 - 12 mm



Control System

The Control System on this machine allows access to calibrations through the Service Mode. The procedures that follow will require the operator to be in Service Mode. Service Mode can only be entered at machine start up and requires a special code.

- 1 At the ground controls, select the ground control mode using the key switch.
- 2 Push and hold buttons numbered **2** and **3** underneath the display screen.
- 3 Pull out the red Emergency Stop button.
- 4 You will be prompted for a password. Enter **3 - 3 - 2 - 4**.
- 5 Press the Gear button to access the settings menu.

Note: There will be a delay while the menu is being loaded on the display screen.

- 6 The machine will now operate normally and allow the viewing and modification of calibrations and parameters.

Note: When a parameter is changed in Service Mode, the change is effective immediately when button 4 (OK) is pushed. Machine restart is not required. A confirmation beep accompanies every save (button 4).

Note: Pushing in the red Emergency Stop button will exit Service Mode.

Note: If there has been no input for 10 minutes while in Service Mode, the ALC-600 will power down and Service Mode will be exited, unless the engine is running.

1-3

Full Machine Calibration

Full machine calibration must be completed in the proper sequence when the ALC-600 controller (TCON) in the ground control box has been replaced.

How to Fully Calibrate the Machine

Calibration procedures shall only be completed by qualified technicians that have Genie factory service training.

WARNING

Tip-over hazard. Failure to calibrate the machine in the proper sequence could cause the machine to tip over resulting in death or serious injury.

Note: A digital level will be required to perform this procedure.

Note: Start this procedure with the machine in the fully stowed position.

Control System

1-7 How to Replace the Display Controller (DISCON) Module

- 1 Push in the red Emergency Stop button to the off position at both the ground and platform controls.
- 2 Disconnect the negative terminal from the start battery and auxiliary battery, if equipped.

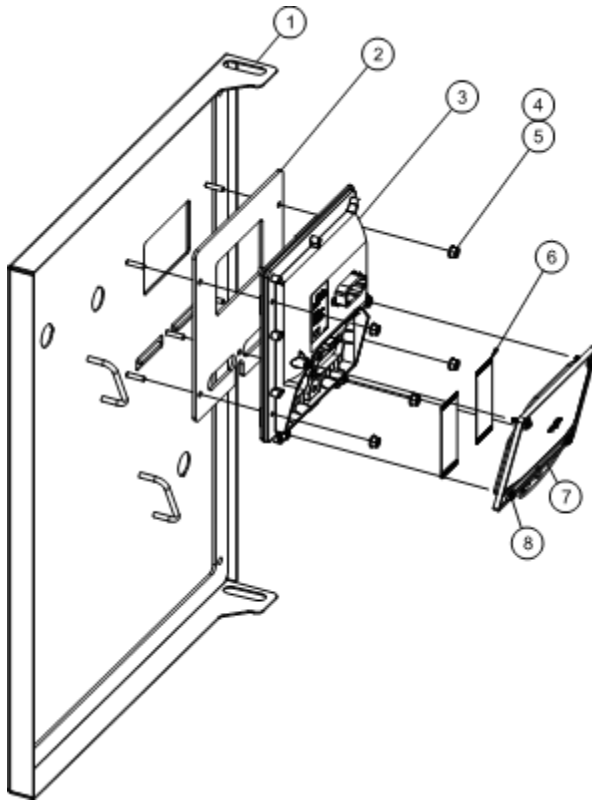


Illustration 1

- 1 ground box lid
- 2 DISCON gasket
- 3 DISCON
- 4 8/32 nylock nuts
- 5 #8 flat washers
- 6 ribbon cable
- 7 DISCON door
- 8 Torx head screws

- 3 Open the ground box lid (1) and disconnect the wire harness going to the display controller (DISCON).
- 4 Remove the DISCON door from the back by loosening the four Torx head screws (8) and remove the two ribbon cables (6) connecting the ground box overlay to the DISCON.

Note the orientation of the cables for reassembly.

- 5 Remove the DISCON from the ground control box lid by removing the five hex nuts and washers (4, 5). Discard the nuts and washers.

Note the lanyard attachment point for reassembly.

- 6 Remove the old DISCON gasket (2) from the ground box lid and clean the lid surface from any dirt, oil or old adhesive residue. Use a 99% solution of isopropyl alcohol to clean the surface. Allow the surface to completely dry.

Note: Both the ground box lid and new gasket must be 70° F / 21° C or higher at the time of application. Application of the new gasket at lower temperatures is not recommended.

- 7 Peel the adhesive protective film from the back of the new gasket. Carefully line up the new gasket over the ground box lid, making sure the cutouts for the LCD screen, ribbon cables and mounting studs are centered and lining up with the gasket. Apply the new gasket to the ground box lid and work from the center out to eliminate air bubbles and make sure all the gasket edges are securely fixed.

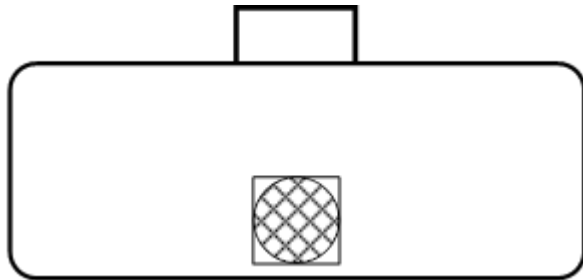
Note: Once applied it is not recommended to lift the gasket and attempt to reposition it.

Platform Components

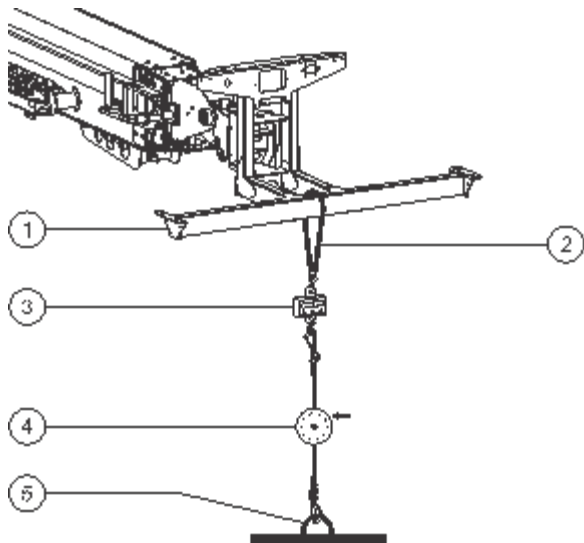
- 10 Place a test weight on the platform floor using a suitable lifting device. Place the weight near the center entry point of the platform, as far away from the operator controls as possible.

Weight = 1,000 lbs / 454 kg

Note: If test weights are not available, you may use an industrial scale to weigh available objects until it equals the platform's maximum capacity.



Note: Alternate method for achieving rated load in the platform is to attach a hanging scale to the bottom of the platform and apply load using a winch or chain hoist until the readout displays the appropriate weight.



Platform hidden from illustration for clarity

- 1 platform support
- 2 sling
- 3 hanging scale
- 4 winch or chain hoist
- 5 anchoring device

- 11 Follow the prompts to accept the weight.
- 12 Calibration is now complete.
- 13 Exit Service Mode.
- 14 Push in the red Emergency Stop button to the off position.

Confirm calibration:

- 15 Start the engine from the ground controls.
- 16 Add an additional 50 lbs / 23 kg of weight or load to the platform.
 - ⦿ Result: The alarm sounds. The engine turns off. The platform overload indicator light flashes at the platform controls and *Platform Overload* is displayed on the LCD screen at the ground controls.

Note: There may be a 2 second delay before the overload indicator lights flash and the alarm sounds.

- 17 Test all machine functions from the ground controls.
 - ⦿ Result: Engine does not start. Limited APU functionality. Elevate and extend functions do not operate.
- 18 Remove the weight or rated load from the platform.

Boom Components

- 22 Tag, disconnect and plug the boom extension cylinder hydraulic hoses. Cap the fittings on the cylinder.

▲ 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.

- 23 Tag and disconnect the electrical connector for the cable break limit switch.
- 24 Tag and disconnect all boom wire harness electrical connectors located at the pivot end of the boom.
- 25 Tag, disconnect and plug the hydraulic hoses from the bulkhead fittings at the pivot end of the boom. Cap the bulkhead fittings.

▲ 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.

- 26 Remove the external snap rings from both boom pivot pins at the short and long link arms. Do not remove the pins.

- 27 Using the overhead crane, adjust the boom as necessary to relieve pressure from the pivot pins.

- 28 Use a soft metal drift to remove each boom pivot pin. Carefully remove the boom assembly from the machine and place it on a structure capable of supporting it.

▲ WARNING Crushing hazard. The boom could fall if not properly supported by the overhead lifting device when each boom pivot pin is removed.

▲ CAUTION Crushing hazard. The long and short link arms may fall if not properly supported when the boom pivot pins are removed.

Engines

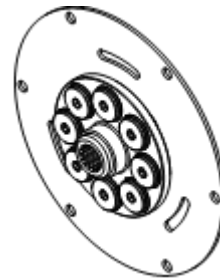
5-1 RPM Adjustment

Refer to Maintenance Procedure in the appropriate Service or Maintenance Manual for your machine, *Check and Adjust the Engine RPM.*

5-2 Flex Plate

The flex plate acts as a coupler between the engine and the pump. It is bolted to the engine flywheel and has a splined center to drive the pump.

Type "B" flex plates combines the pump coupler, as part of the flex plate, which is installed onto the engine flywheel.



Type "B"
(flexplate with coupler combined)

How to Remove the Flex Plate

Note: Perform this procedure with the engine off and cool to the touch.

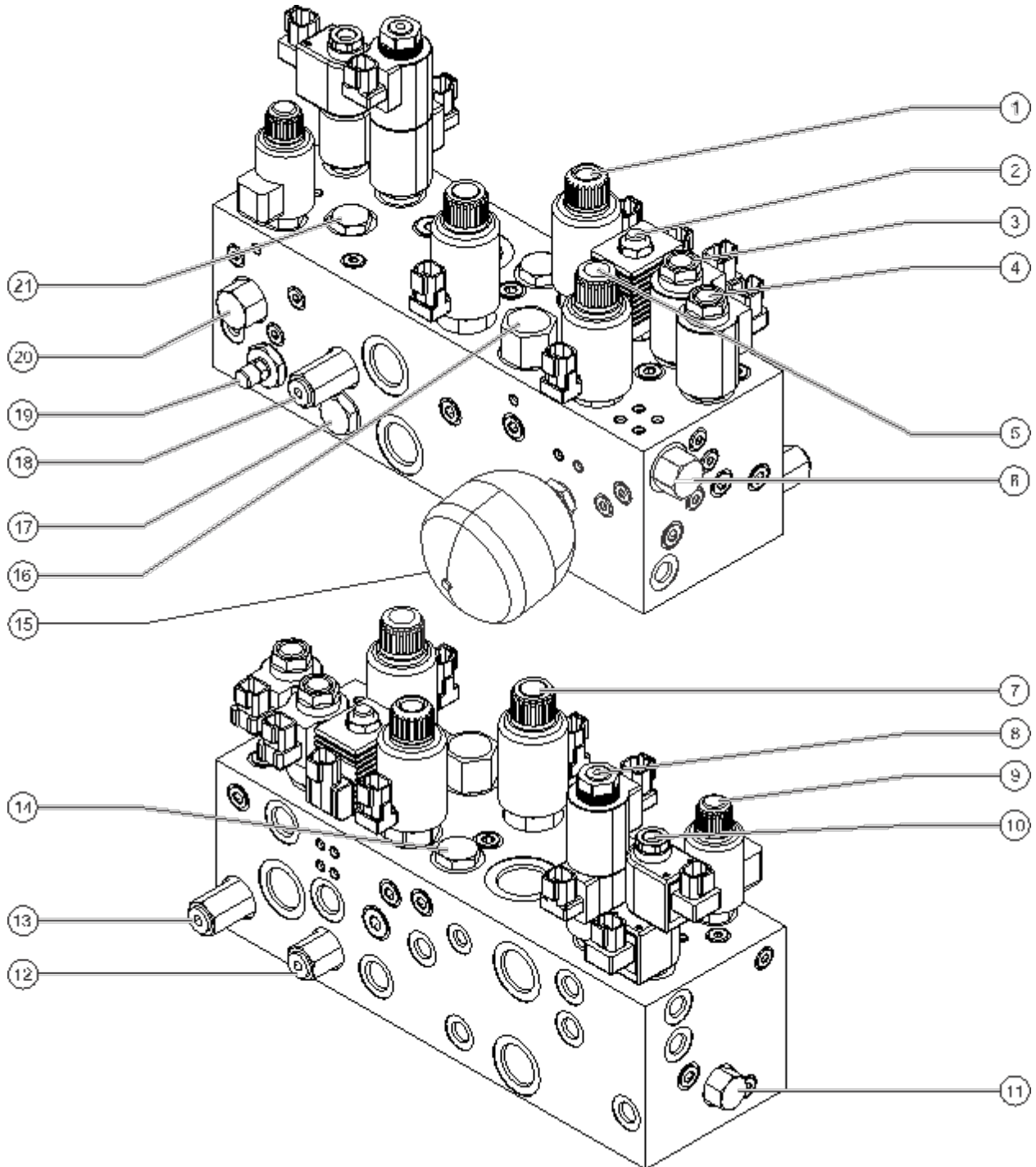
- 1 Open the engine side turntable cover.
- 2 Tag and disconnect the battery cables from the battery(s).

▲ WARNING

Electrocution/burn hazard. Contact with electrically charged circuits could result in death or serious injury. Remove all rings, watches and other jewelry.

- 3 Tag and disconnect the wiring plug at the electronic displacement controller (EDC), located on the drive pump.

Manifolds



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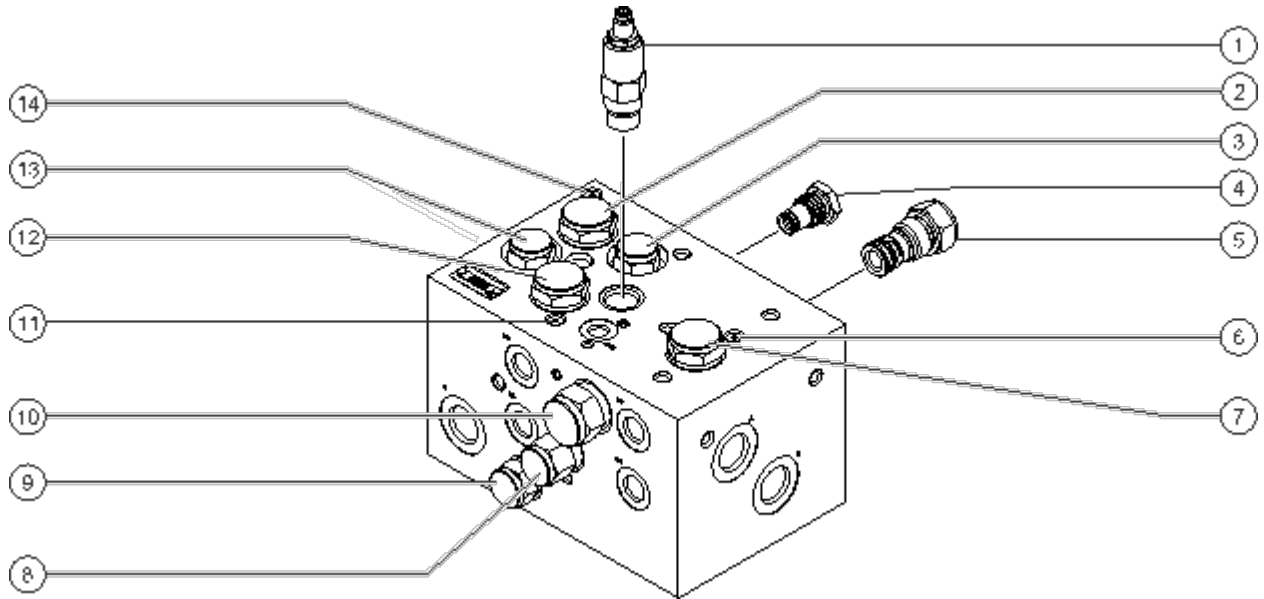
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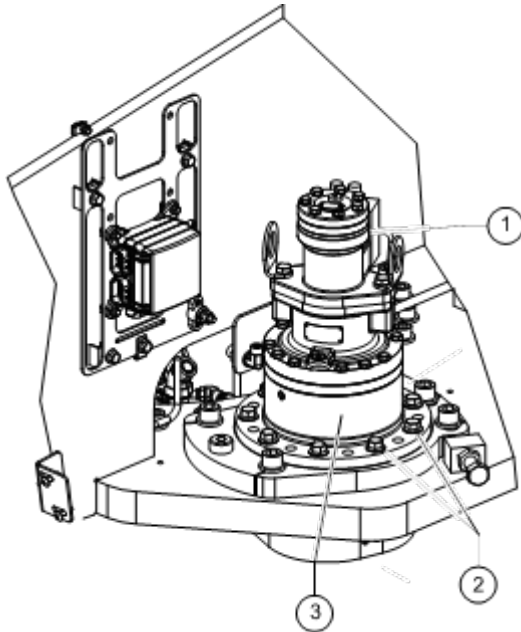
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Manifolds



Turntable Rotation Components

- 5 Clean up any oil that may have spilled.



- 1 motor
- 2 drive hub mounting bolts
- 3 drive hub with brake

How to Adjust the Turntable Rotation Gear Backlash

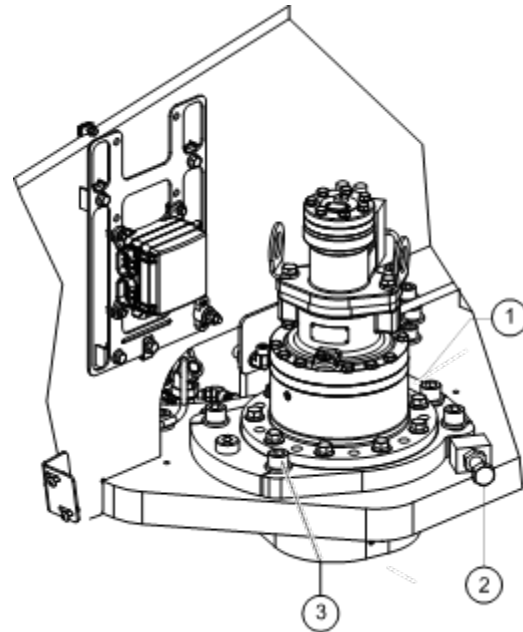
The turntable rotation drive hub is mounted on an adjustable plate that controls the gap between the rotation motor pinion gear and the turntable bearing ring gear.

Note: Perform this procedure with the boom between the non-steer end tires and with the machine on a firm and level surface.

- 1 Secure the turntable from rotating with the turntable rotation lock pin.

Note: The turntable rotation lock pin is located next to the boom rest pad.

- 2 Loosen the backlash pivot plate mounting fasteners.



- 1 backlash pivot plate
- 2 adjustment bolt with lock nut
- 3 backlash pivot plate mounting bolts

Control System Fault Codes

ID	Component	ID	Name	Cause	Effect	Solution
12	Machine CAN Bus	13	Not detected	Machine CANBUS CAN+ or CAN- shorted to supply.	Machine will not be functional.	<p>*Verify with a voltmeter that CAN+ and CAN- lines are not shorted.</p> <p>*Measure the resistance between D82CAN+ (YL, TCON J5-3) and D81CAN- (GR, TCON J5-4); should be between 55 and 65 ohms.</p> <p>*D81CAN+ (YL, TCON J5-3) should be between 1V and 5V.</p> <p>*D81CAN- (GR, TCON J5-4) should be between 1V and 5V.</p> <p>*Remove short(s) and cycle power.</p>
13	Jib Up/Down Switch	27	Active at startup	Toggle switch input was detected as HIGH at start-up.	The Jib Up or Down functions will not operate.	<p>*Verify with a voltmeter that the Jib Up/Down Toggle Switch (TS8) is operating properly.</p> <p>* C43JU (BL, PCON J17-6) should be 0 V with the switch OFF and 12 V with the switch held in the UP position.</p> <p>* C44JD (BL/BK, PCON J17-8) should be 0 V with the switch OFF and 12 V with the switch held in the DOWN position.</p> <p>*Cycle power to allow the machine to re-test the fault.</p>
15	Foot Switch	27	Active at startup	Foot switch input was detected as HIGH at start-up, or the foot switch was held for too long and caused the foot switch timer to elapse.	Machine will not be functional.	<p>* Release foot switch and cycle power.</p> <p>* If problem persists, with a voltmeter verify that C24FS (WH, PCON J12-2) is LOW when foot switch is released and 12 V when held down.</p>
		28	Timeout	Foot switch depressed too long without action.	Machine will not be functional.	
17	Aux Pump Coil	11	Shorted to supply voltage	TCON detected that C27AUX circuit is shorted to 12 V or GND.	Machine will not be functional.	<p>*Check C27AUX (RD, TCON J3-3) wiring. *With a voltmeter verify that C27AUX (RD, TCON J3-3) is 0 V when the Auxiliary Power toggle switch is OFF and 12 V when switch is ON.</p> <p>*Verify the terminals of the APU solenoid have a resistance greater than 5 ohms. If not, replace the solenoid.</p>
19	Aux Enable Switch	27	Active at startup	Aux button held at startup.	Machine will not be functional.	Release Aux button, check DISCON overlay and ribbon cable if issue persists.

Control System Fault Codes

ID	Component	ID	Name	Cause	Effect	Solution
78	Platform Controller (PCON)	13	Not detected	TCON has not detected the PCON primary processor on the communications bus.	Controls from the platform will not operate.	<ul style="list-style-type: none"> * Verify PCON is receiving power. Check for 12 V on J15-2 (+) and J15-1 (-). * Verify PCON is receiving ESTOP signals. With ground ESTOP pulled out and keyswitch set to Platform, verify 12 V is reaching PCON J15-10. * Verify CAN bus is functional. Pull out connector J15 from the PCON and with a voltmeter set to resistance verify that pins 3 and 4 on the harness connector measure between 110 and 130 Ohms. Check wiring and boom cable for open or short circuits if resistance check fails. * Replace PCON if necessary.
		29	Software version mismatch	PCON software is out of date.	Machine limited to recovery functions	Download latest software from firmware site and update machine.
79	Display Controller (DISCON)	13	Not detected	TCON has not detected the DISCON on the communications bus.	Controls from the ground will not operate.	<ul style="list-style-type: none"> * Verify DISCON is operating by checking that the display on the front is operating properly. * If there is no display, try to power up the DISCON by setting the key switch to Ground, pull out the ground ESTOP and press the Ground Function Enable button. The display should start. * If there is still no display, check DISCON power on J10 pins 2 (+) and 1 (-). * If DISCON operates but fault persists, check the CAN bus wiring. Disconnect J10 and with a voltmeter set to resistance verify that the resistance between pins 3 and 4 on the harness connector are between 55 and 65 ohms. Check CAN wiring if resistance check fails. * Replace DISCON if required.
		29	Software version mismatch	DISCON software is out of date.	Machine limited to recovery functions.	Download latest software from firmware site and update machine.



Deutz TD 2.9 L4 Teir IV Engine Fault Codes

SPN = Suspect Parameter Number

FMI = Failure Mode Identifier

KWP = Keyword Protocol

SPN	FMI	KWP	Description
175	2	738	Sensor oil temperature; plausibility error
175	2	739	Sensor oil temperature; plausibility error oil temperature too high
175	3	743	Sensor error oil temperature; signal range check high
175	4	744	Sensor error oil temperature; signal range check low
190	0	389	Engine speed above warning threshold (FOC-Level 1)
190	2	421	Offset angle between crank- and camshaft sensor is too large
190	8	419	Sensor camshaft speed; disturbed signal
190	8	422	Sensor crankshaft speed; disturbed signal
190	11	390	Engine speed above warning threshold (FOC-Level 2)
190	12	420	Sensor camshaft speed; no signal
190	12	423	Sensor crankshaft speed; no signal
190	14	391	Engine speed above warning threshold (Overrun Mode)
190	14	1222	Camshaft- and Crankshaft speed sensor signal not available on CAN
411	0	791	Physical range check high for differential pressure Venturiunit (EGR)
411	1	792	Physical range check low for differential pressure Venturiunit (EGR)
411	3	795	Sensor error differential pressure Venturiunit (EGR); signal range check high
411	4	381	Physical range check low for EGR differential pressure
411	4	796	Sensor error differential pressure Venturiunit (EGR); signal range check low

SPN	FMI	KWP	Description
412	3	1007	Sensor error EGR cooler downstream temperature; signal range check high
412	4	1008	Sensor error EGR cooler downstream temperature; signal range check low
520	9	306	Timeout Error of CAN-Receive-Frame TSC1TR; Setpoint
597	2	49	Break lever mainswitch and break lever redundancy switch status not plausible
624	3	971	SVS lamp; short circuit to batt.
624	4	972	SVS lamp; short circuit to grd.
624	5	969	SVS lamp; open load
624	12	970	SVS lamp; powerstage over temperature
630	12	376	Access error EEPROM memory (delete)
630	12	377	Access error EEPROM memory (read)
630	12	378	Access error EEPROM memory (write)
639	14	84	CAN-Bus 0 "BusOff-Status"
651	3	580	Injector 1 (in firing order); short circuit
651	4	586	High side to low side short circuit in the injector 1 (in firing order)
651	5	568	Injector 1 (in firing order); interruption of electric connection
652	3	581	Injector 2 (in firing order); short circuit
652	4	587	High side to low side short circuit in the injector 2 (in firing order)
652	5	569	Injector 2 (in firing order); interruption of electric connection
653	3	582	Injector 3 (in firing order); short circuit
653	4	588	High side to low side short circuit in the injector 3 (in firing order)
653	5	570	Injector 3 (in firing order); interruption of electric connection



Deutz TCD 2.2 L3, TD 2.9 L4 Stage IV Engine Fault Codes

DTC = Diagnostic Trouble Code

FMI = Failure Mode Identifier

SPN = Suspect Parameter Number

DTC	SPN	FMI	Description
111	102	0	Engine intake manifold pressure above normal operational range.
1114	102	1	Engine intake manifold pressure below normal operational range.
1115	102	3	Intake manifold pressure sensor voltage above normal or shorted to high.
1116	102	4	Intake manifold pressure sensor voltage below normal or shorted to low.
1118	102	1	Intake manifold pressure below normal operational range.
1121	102	2	DFC for signal variation check for pressure sensor of the intake manifold.
1122	102	0	Intake air pressure valve sensor, warning condition exceeded.
1123	102	1	Intake air pressure valve sensor, shutoff condition exceeded.
1124	1209	2	Engine exhaust pressure turbine upstream differs from ambient pressure while engine not running.
1125	1209	15	Engine exhaust pressure turbine upstream above upper limit.
1126	1176	1	Engine turbocharger compressor intake pressure below normal operational range.
1127	1209	2	Engine exhaust pressure turbine upstream tuck check failed. Pressure does not change between engine operating points.
1130	1209	3	Engine exhaust pressure sensor voltage above normal or shorted to high.
1131	1209	4	Engine exhaust pressure sensor voltage below normal or shorted to low.

DTC	SPN	FMI	Description
1134	3251	3	DPF voltage above normal or shorted to high.
1135	3251	4	DPF voltage below normal or shorted to low.
1136	3251	14	DPF reporting communication error.
1137	3251	14	DPF reporting data error.
1138	3251	14	DPF reporting fast channel 1 error.
1139	3251	14	DPF reporting fast channel 2 signal range error.
1149	3251	2	DPF difference pressure value not plausible.
1150	3251	0	DPF difference pressure above shut off threshold.
1151	3251	16	DPF difference pressure above warning threshold.
1152	3251	1	DPF difference pressure below shut off threshold.
1153	3251	18	DPF difference pressure below warning threshold.
1161	5571	16	Rail fuel pressure relief valve above normal operational range.
1162	5571	2	Rail fuel pressure relief valve is forced to open, perform pressure increase.
1163	5571	2	Rail fuel pressure relief valve is forced to open. Performed by pressure increase.
1164	5571	16	Rail fuel pressure relief valve is forced to open. Shutoff conditions.
1165	5571	15	Rail fuel pressure relief valve is forced to open. Warning conditions.
1166	5571	0	Open rail fuel pressure relief valve was detected.
1167	5571	2	Unexpected opening of the rail fuel pressure relief valve.
1168	5571	2	Successful rail fuel pressure relief valve opening cannot be ensured.
1169	5571	13	Averaged rail fuel pressure after valve opening is outside the expected tolerance range.

Perkins 404-22 Engine Fault Codes

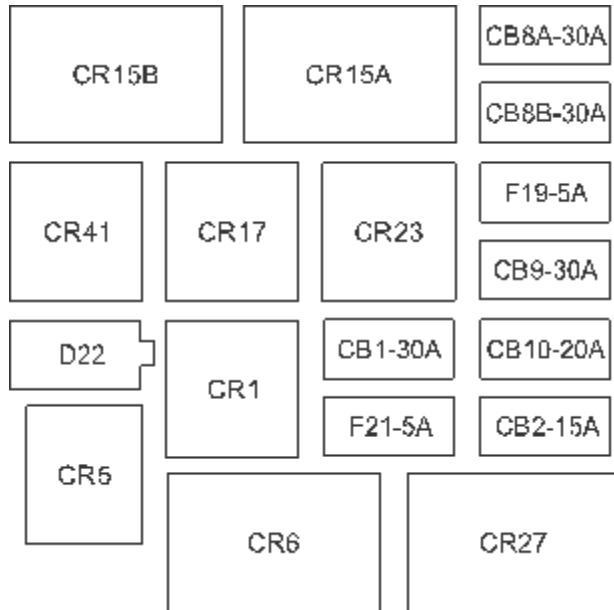
SPN = Suspect Parameter Number

FMI = Failure Mode Identifier

SPN	FMI	Description
3251	3	Particulate Trap Differential Pressure: Voltage Above Normal
3251	4	Particulate Trap Differential Pressure: Voltage Below Normal
3473	7	Aftertreatment #1 Failed to Ignite: Not Responding Properly
3473	11	Aftertreatment #1 Failed to Ignite : Other Failure Mode
3484	0	Aftertreatment #1 Ignition : High-most severe (3)
3484	3	Aftertreatment #1 Ignition : Voltage Above Normal
3484	4	Aftertreatment #1 Ignition : Voltage Below Normal
3556	6	Aftertreatment 1 Hydrocarbon Doser 1: Current Above Normal
3610	3	Diesel Particulate Filter Outlet Pressure or 1: Voltage Above Normal"
3610	4	DieselParticulate Filter Outlet Pressure Sensor 1: Voltage Below Normal
3713	7	DPF Active Regeneration Inhibited Due to System Timeout: Not Responding Properly
3713	31	DPF Active Regeneration Inhibited Due to System Timeout
3719	0	Particulate Trap #1 Soot Load Percent: High- most severe (3)
3719	16	Particulate Trap #1 Soot Load Percent: High-moderate severity (2)
4016	6	High Current Auxiliary Power Relay 1: Current Above Normal
4201	3	Engine Speed Sensor #1: Voltage Above Normal

SPN	FMI	Description
4201	4	Engine Speed Sensor #1: Voltage Below Normal
4201	8	Engine Speed Sensor #1: Abnormal Frequency, Pulse \Nidth, or Period
4201	10	Engine Speed Sensor #1: Abnormal Rate of Change
4765	1	Aftertreatment #1 Diesel Oxidation Catalyst Intake Gas Temperature: Low-most severe (3)
4765	3	Aftertreatment #1 Diesel Oxidation Catalyst Intake Gas Temperature: Voltage Above Normal
4765	4	Aftertreatment #1 Diesel Oxidation Catalyst Intake Gas Temperature: Voltage Below Normal
4765	15	Aftertreatment #1 Diesel Oxidation Catalyst Intake Gas Temperature: High-least severe (1)
4765	16	Aftertreatment #1 Diesel Oxidation Catalyst Intake Gas Temperature: High-moderate severity (2)
5487	3	Aftertreatment 1 Burner Unit Combustion Chamber Temperature: Voltage Above Normal
5487	4	Aftertreatment 1 Burner Unit Combustion Chamber Temperature: Voltage Below Normal
6581	6	Aftertreatment 1 Hydrocarbon Doser 2 : Current Above Normal

Engine Relay Layout - Deutz TD 2.9 L4, TCD 2.2 L3



Deutz TD 2.9 L4, TCD 2.2 L3

Fuses

CB8A	30A	Refer to electrical schematic for circuits
CB8B	30A	
F19	15A	
F21	10A	
CB9	30A	
CB10	20A	
CB1	30A	
CB2	15A	

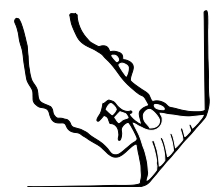
Diode

D22	6A	Alternator Ext.
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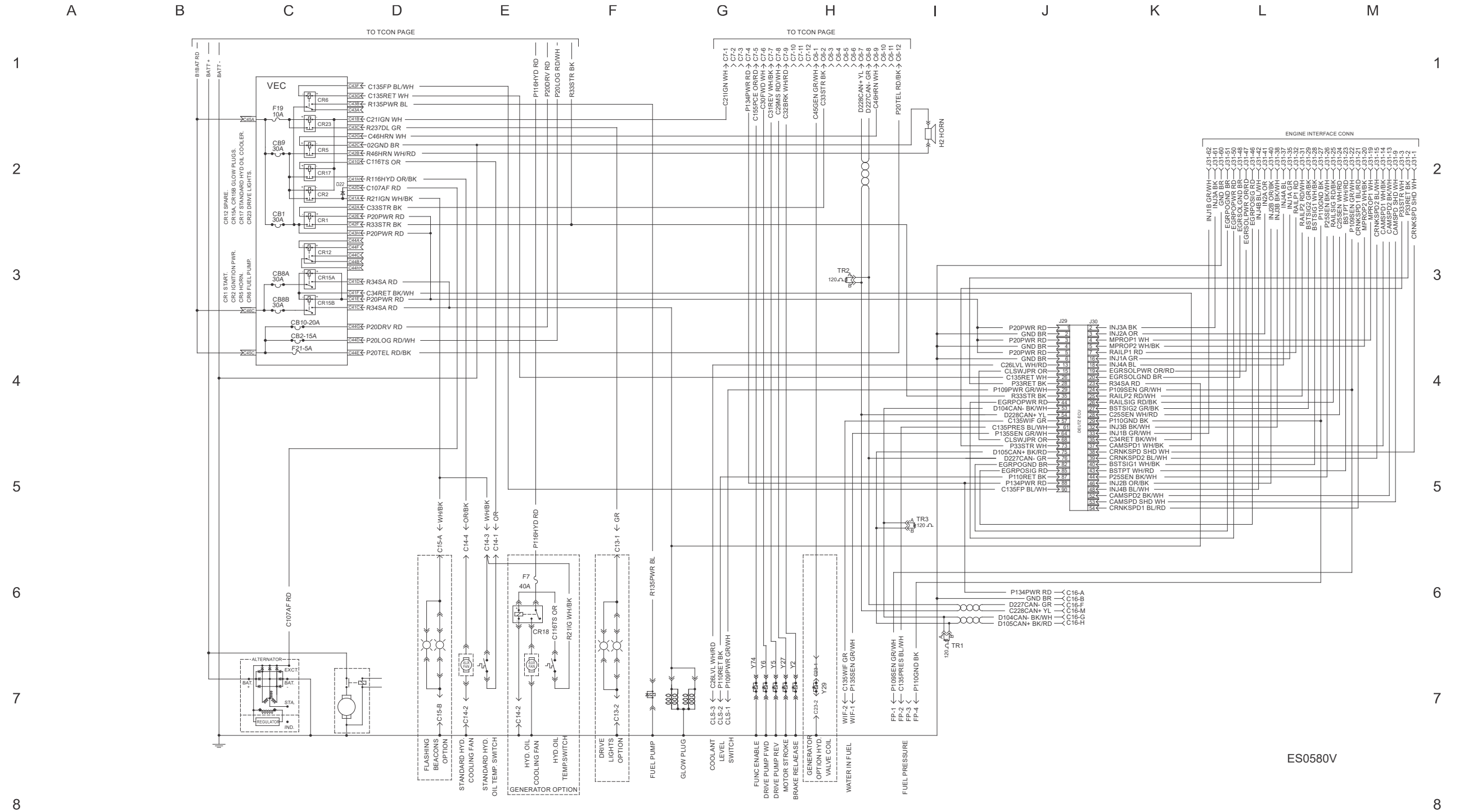
Relays

CR1	Ignition on
CR5	Horn
CR6	Fuel pump
CR15A	Glow plugs
CR15B	Glow plugs
CR17	Hydraulic oil cooler
CR27	Auxiliary
CR41	R21IGN

Electrical Schematic, Platform Controller
(from S80XCH-3101, S85XCH-3091, S85XCD-2002)



Electrical Schematic, Deutz TD 2.9 L4 Tier IV Engine (from S80XCH-3101, S85XCH-3091, S85XCD-2002)



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