



Section 5

SCHEMATICS

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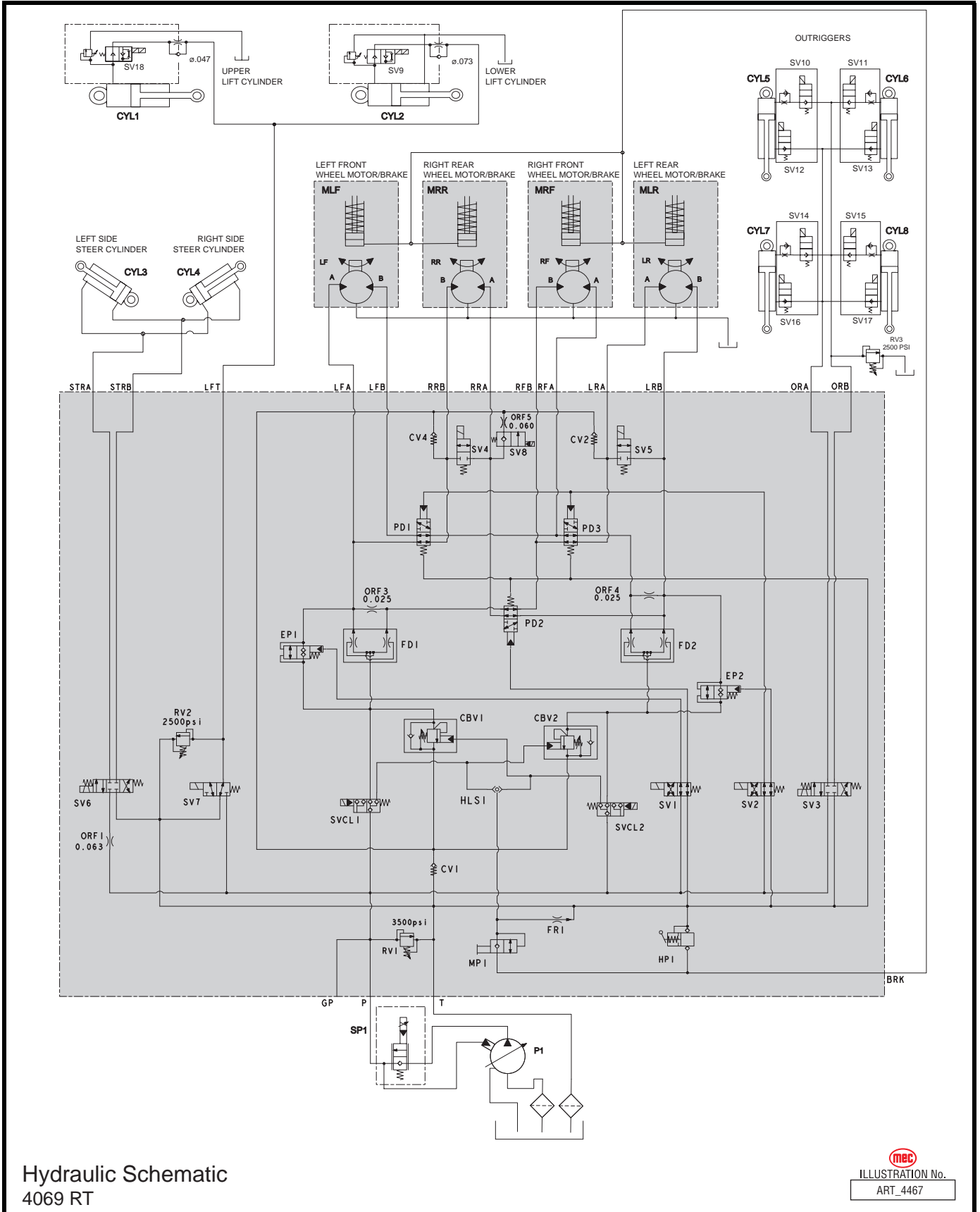
HYDRAULIC SCHEMATICS TABLE

Callout	Description
CBV1, CBV2	Counterbalance Valve, Drive
CV1	Check Valve
CV2	Check Valve
CV4	Check Valve
CYL1	Cylinder, Upper Lift
CYL2	Cylinder, Lower Lift
CYL3-CYL4	Cylinder, Steer
CYL5-8	Cylinder, Outrigger
EP1	Pilot Operated Valve, Mid Speed
EP2	Pilot Operated Valve, Low Speed
FD1	Flow Divider, Drive Mid & Low
FD2	Flow Divider, Drive Mid & Low
FR1	Flow Regulator Valve, Brake Apply
HLS1	Shuttle Valve, Brake Release
HP1	Hand Pump, Brake Release
MLF	Motor, Left Front
MLR	Motor, Left Rear
MP1	Manual Operated Valve, Brake Release
MRF	Motor, Right Front
MRR	Motor, Right Rear
ORF1	Orifice, Steer Speed .063
ORF3	Orifice, Flow Divider Bypass.025

Callout	Description
ORF4	Orifice, Flow Divider Bypass.025
ORF5	Orifice, Bypass Control .060
P1	Pump
PD1	Pilot Operated Valve, High Torque Shift
PD2	Pilot Operated Valve, Mid Range Shift
PD3	Pilot Operated Valve, High Torque Shift
RV1	Relief Valve, Main
RV2	Relief Valve, Lift
SP1	Proportional Solenoid Valve
SV1	Solenoid Valve, High Speed
SV10-SV17	Solenoid Valve, Outrigger
SV18	Solenoid Valve, Down Valve, Upper Lift Cyl
SV2	Solenoid Valve, High Torque
SV3	Solenoid Valve, Outrigger Directional
SV4	Solenoid Valve, Rear Wheel Bypass
SV5	Solenoid Valve, Rear Wheel Bypass
SV6	Solenoid Valve, Steer Directional
SV7	Solenoid Valve, Platform Lift
SV8	Solenoid Valve, Rear Wheel Bypass
SV9	Solenoid Valve, Down Valve, Lower Lift Cyl
SVCL1	Solenoid Valve, Drive Forward
SVCL2	Solenoid Valve, Drive Reverse

HYDRAULIC SCHEMATIC

Figure 5-1: Hydraulic Schematic



Hydraulic Schematic
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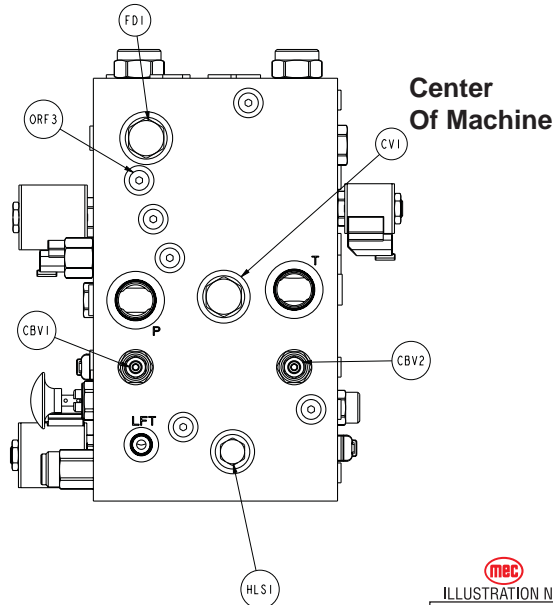
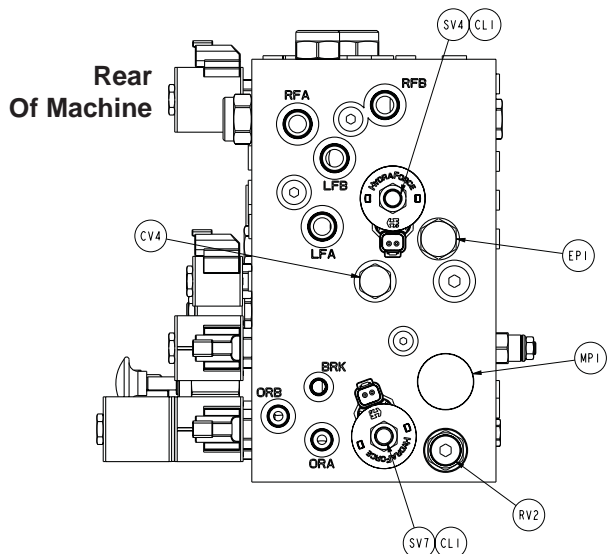
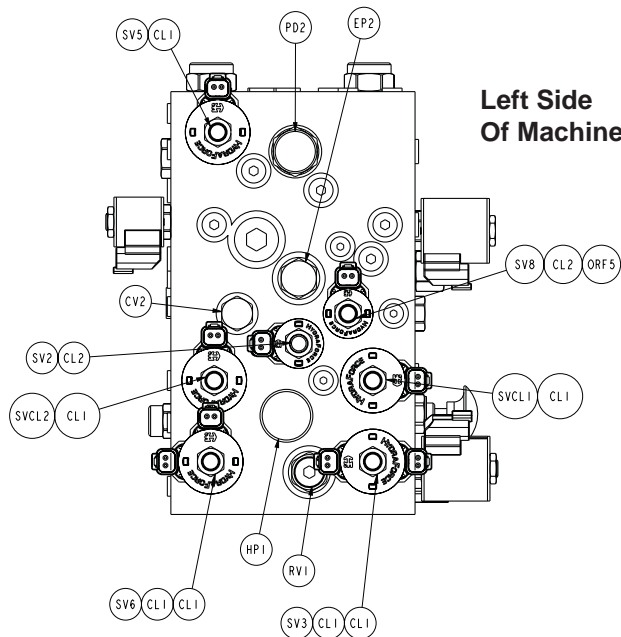
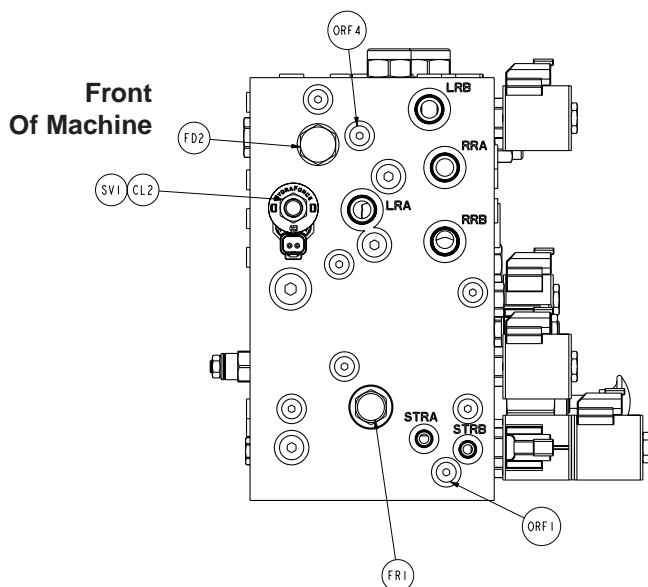
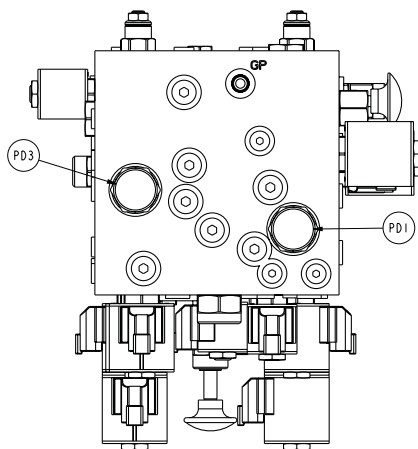

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Figure 5-2: Functions Manifold

CL2	COIL #10
CL1	COIL #8
CV1	CHECK VALVE - ANTI CAVITATION
CV2	CHECK VALVE - ANTI CAVITATION
CV4	CHECK VALVE - ANTI CAVITATION
HP1	HAND PUMP - BRAKE RELEASE
SV1	SOLENOID VALVE - HIGH SPEED
SV2	SOLENOID VALVE - HIGH TORQUE
SV3	SOLENOID VALVE - OUTRIGGER DIRECTIONAL
SV4	SOLENOID VALVE - REAR WHEEL BYPASS
SV5	SOLENOID VALVE - REAR WHEEL BYPASS
SV6	SOLENOID VALVE - STEER DIRECTIONAL
SV7	SOLENOID VALVE - PLATFORM LIFT
SV8	SOLENOID VALVE - REAR WHEEL BYPASS
FD1	FLOW DIVIDER VALVE - DRIVE MID & LOW
FD2	FLOW DIVIDER VALVE - DRIVE MID & LOW
MP1	MANUAL OP. VALVE - BRAKE EMR. RELEASE

SVCL1	SOLENOID VALVE - DRIVE FORWARD
SVCL2	SOLENOID VALVE - DRIVE REVERSE
EP1	PILOT OP. VALVE - MID SPEED
EP2	PILOT OP. VALVE - LOW SPEED
RV1	RELIEF VALVE - MAIN
RV2	RELIEF VALVE - PLATFORM LIFT
FR1	FLOW REGULATING VALVE - BRAKE APPLY
HLS1	SHUTTLE VALVE - BRAKE RELEASE
ORF1	ORIFICE - STEER SPEED CONTROL
ORF3	ORIFICE - FLOW DIVIDER BYPASS
ORF4	ORIFICE - FLOW DIVIDER BYPASS
ORF5	ORIFICE - BYPASS CONTROL
PD1	PILOT OP. VALVE - HIGH TORQUE SHIFT
PD2	PILOT OP. VALVE - MID RANGE SHIFT
PD3	PILOT OP. VALVE - HIGH TORQUE SHIFT
CBV1	COUNTERBALANCE VALVE - DRIVE
CBV2	COUNTERBALANCE VALVE - DRIVE



Functions Manifold
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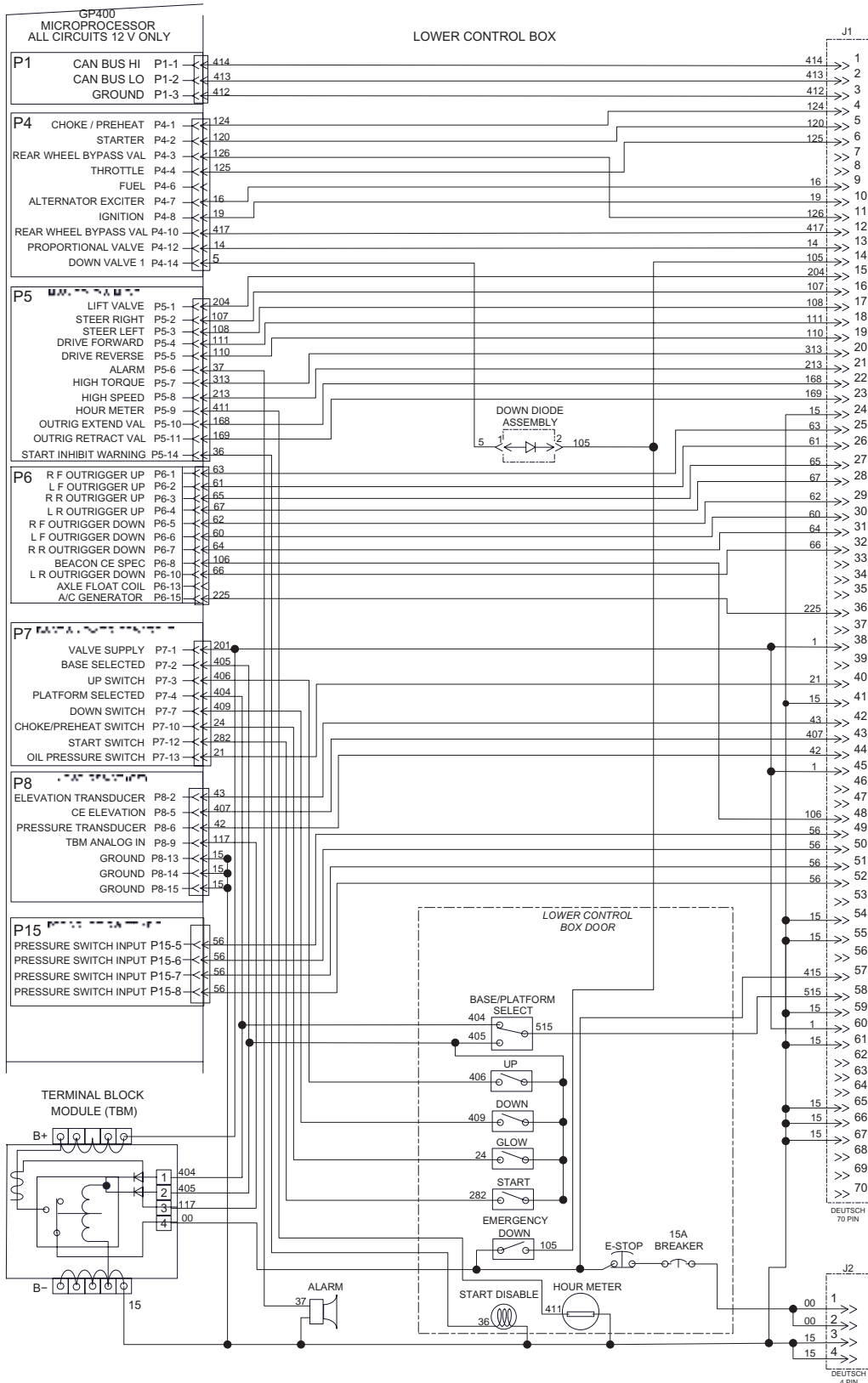


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ELECTRICAL SCHEMATICS

Figure 5-3: Electrical Schematic, 1 of 4

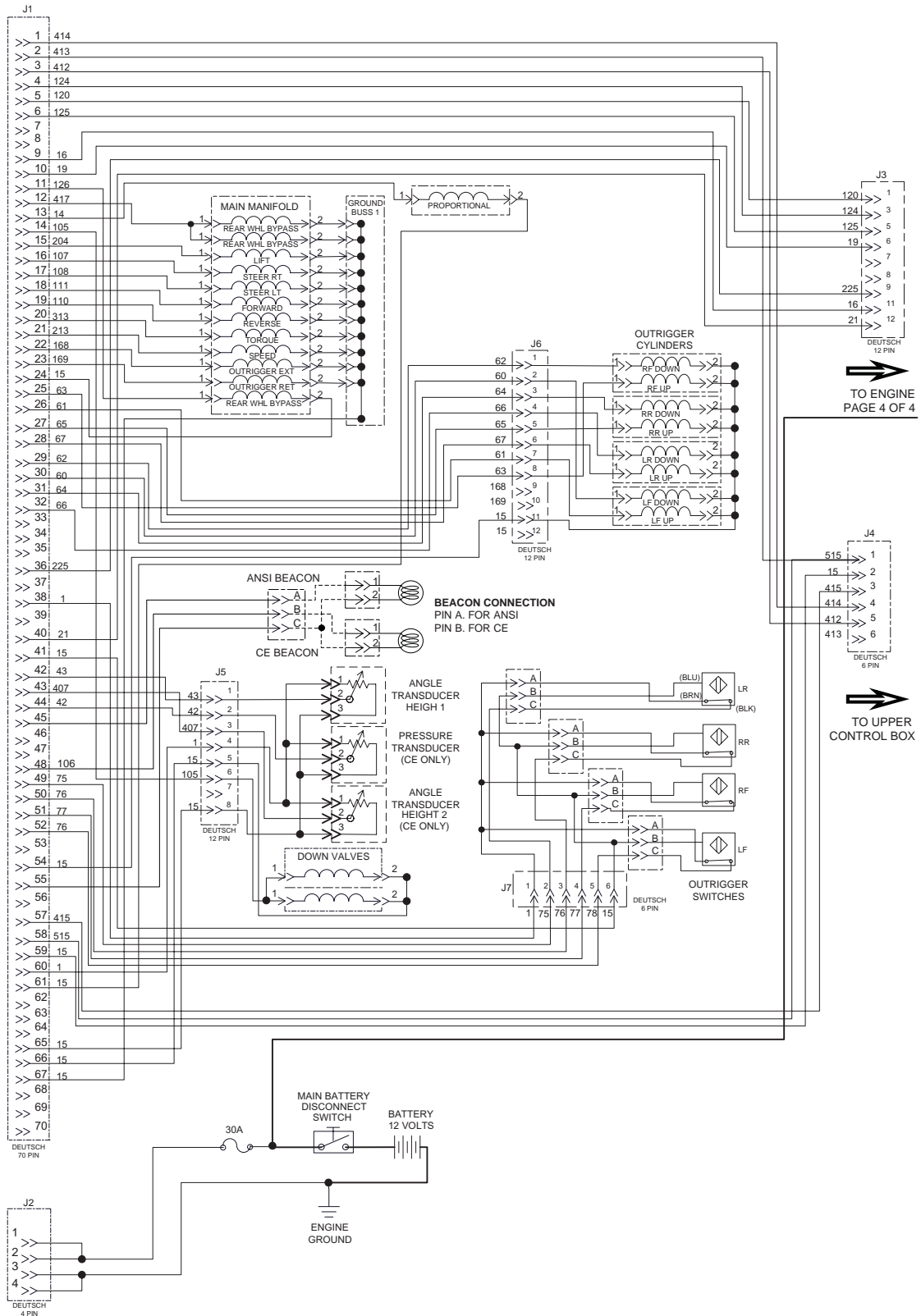


Electrical Schematic, 1 of 4
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Figure 5-4: Electrical Schematic, 2 of 4

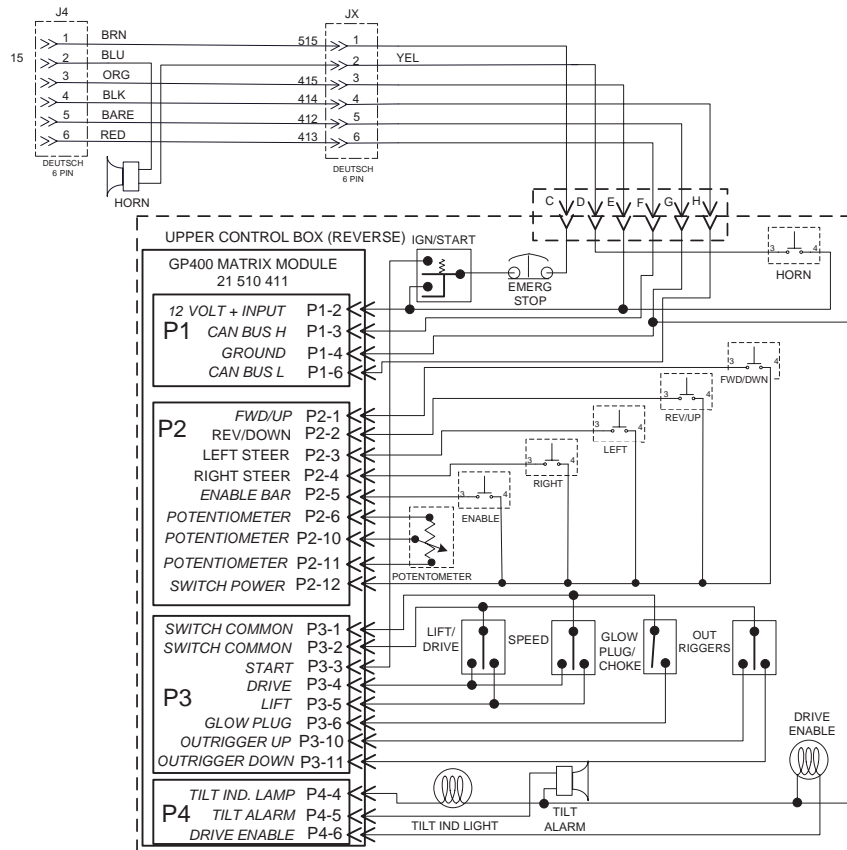


Electrical Schematic, 2 of 4
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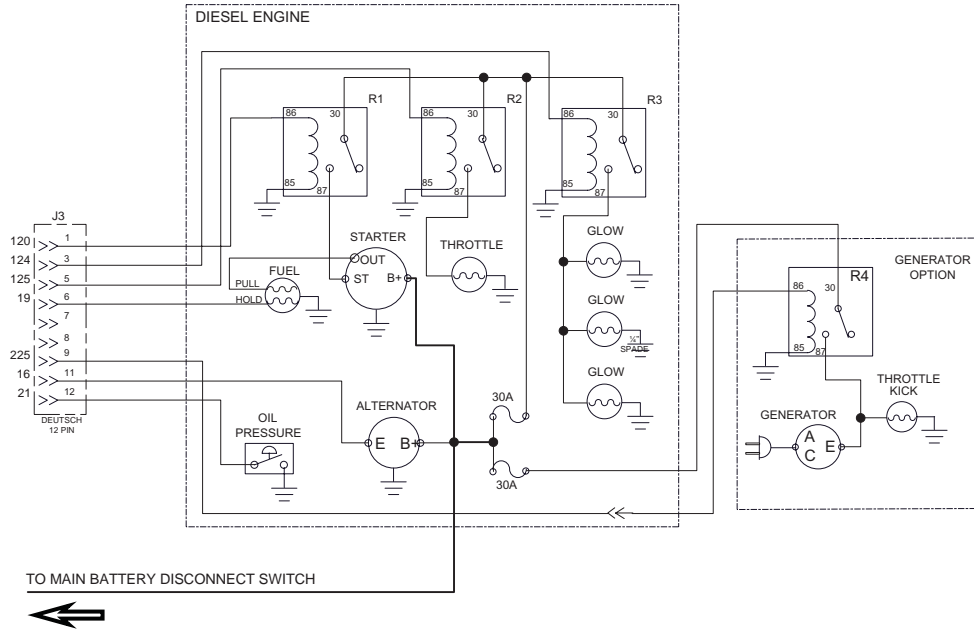
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Electrical Schematic, 3 of 4
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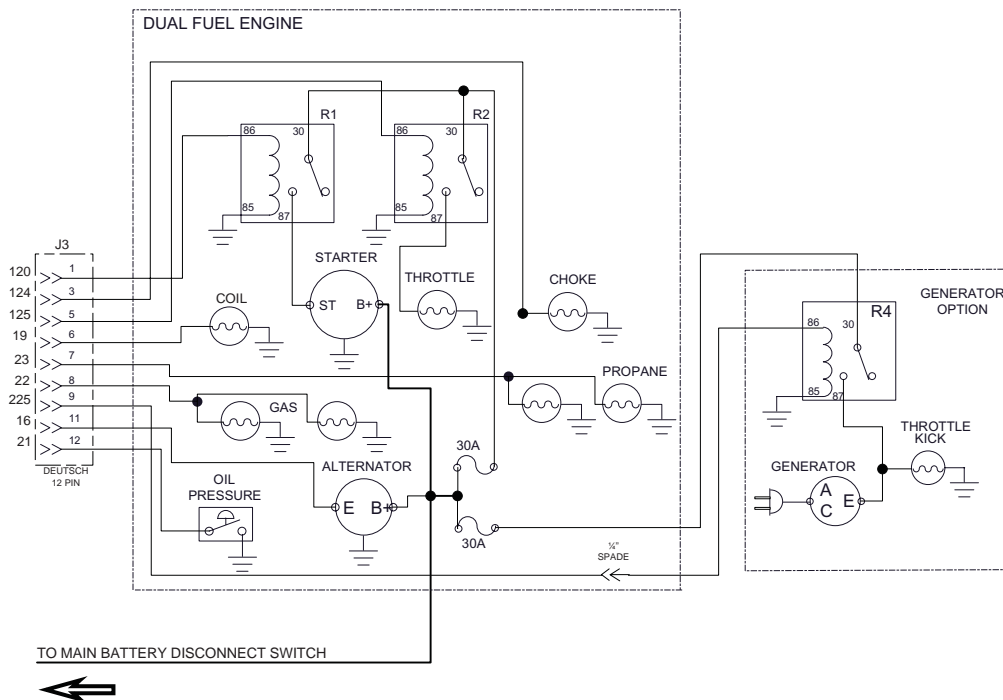

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Figure 5-6: Electrical Schematic, 4 of 4



DIESEL ENGINE and optional Generator

DUAL FUEL ENGINE and optional Generator



Electrical Schematic, 4 of 4
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