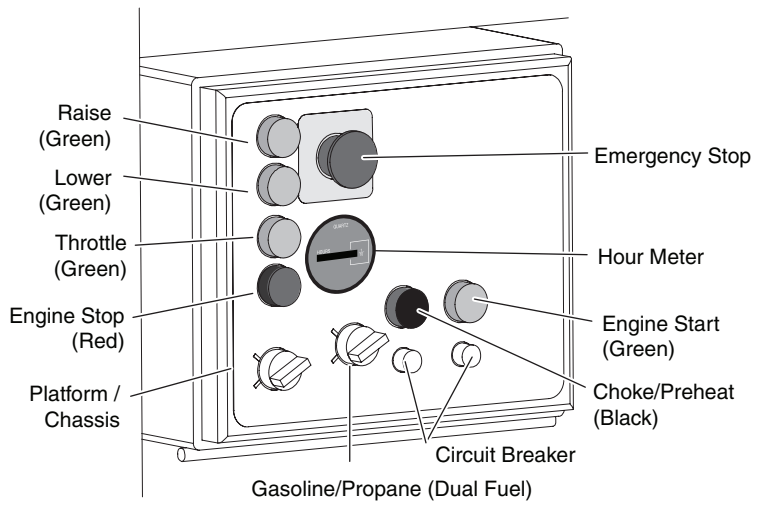
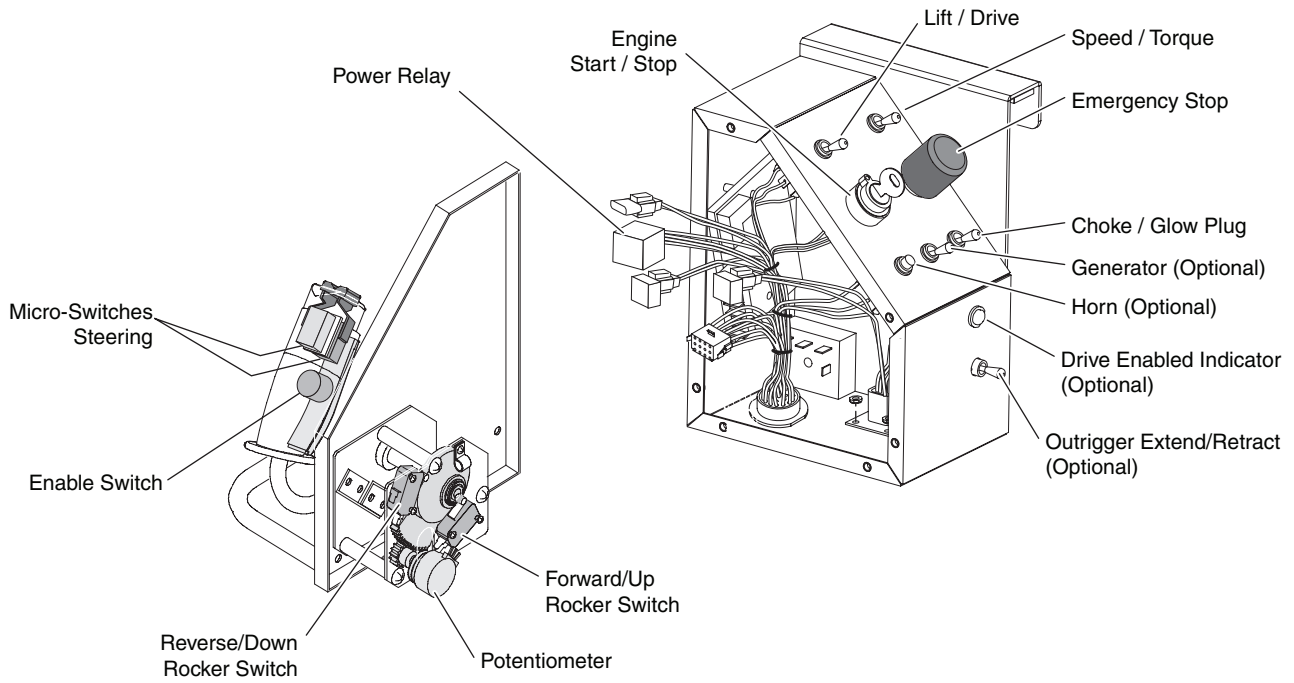


CONTROLS AND SWITCHES



A large, stylized red graphic consisting of two curved, overlapping shapes that form a partial circle, framing the central text.

SECTION 5: SCHEMATICS

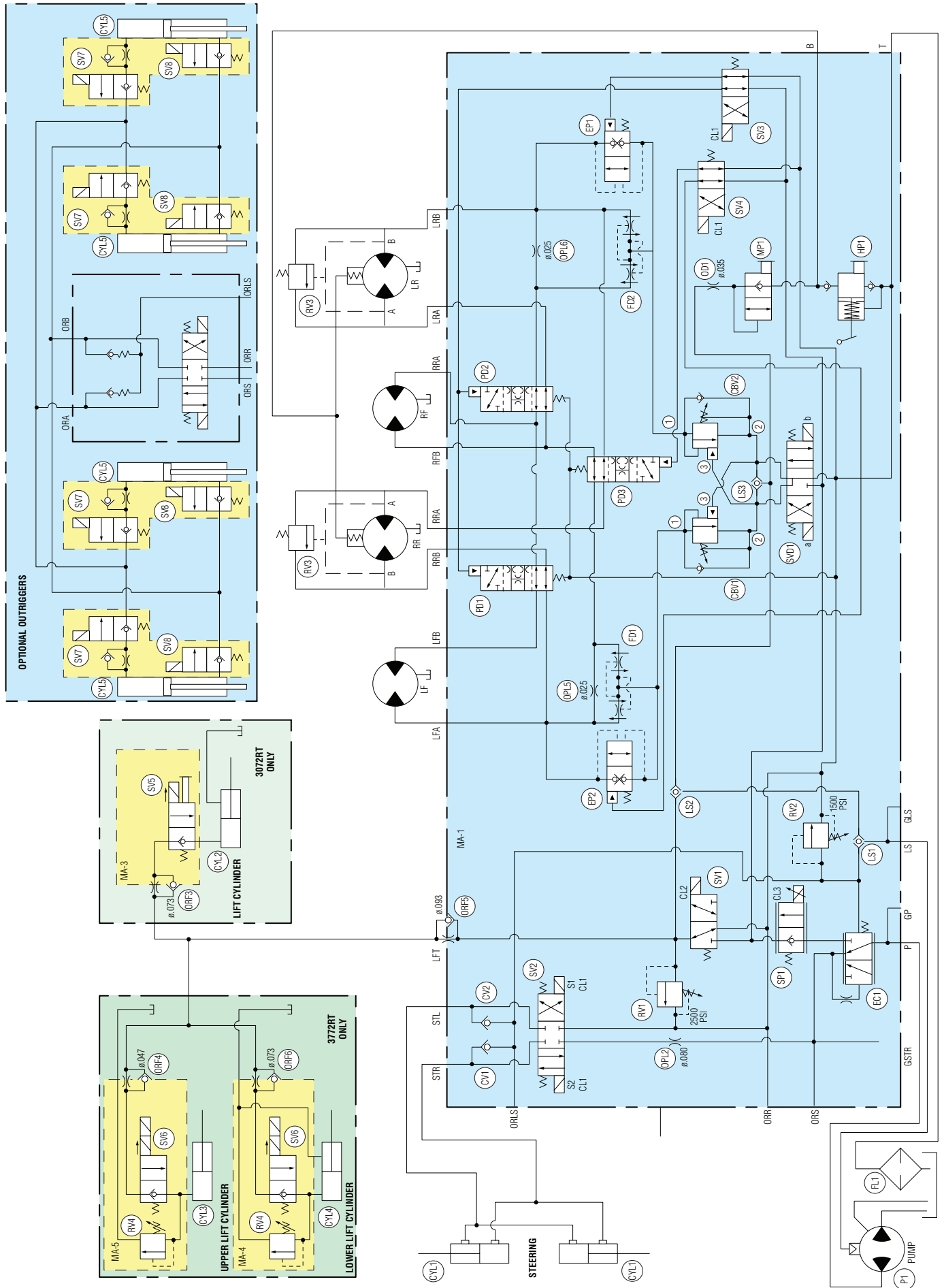
- Hydraulic Schematic 5-2**
 - Main Hydraulic Manifold 5-4
 - Optional Outriggers Hydraulic Manifold 5-5
- Electric Schematics 5-6**
 - Circuit Board 5-8
 - Controls.....5-10
 - Engine5-13
 - Optional Outriggers5-15
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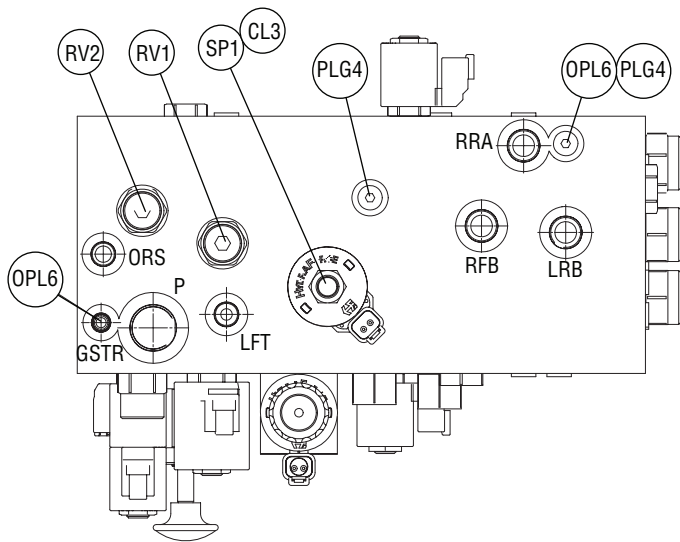
HYDRAULIC SCHEMATIC

| Callout | Description |
|--|--|
| Lift Cylinder Components (3072RT) | |
| CYL2 | Cylinder |
| MA3 | Manifold, Lift Cylinder |
| SV5 | Solenoid Valve - 12V Cable Attach |
| ORF3 | Orifice - 0.073 |
| Lift Cylinder Components (3772RT) | |
| CYL3 | Cylinder, Upper |
| MA5 | Manifold, Lift Cylinder, Upper |
| SV6 | Solenoid Valve - 12V Dual Coil |
| RV4 | Relief Valve - 3200 PSI |
| ORF4 | Orifice - 0.073 |
| CYL4 | Cylinder, Lower |
| MA4 | Manifold, Lift Cylinder, Lower |
| SV6 | Solenoid Valve - 12V Dual Coil |
| RV4 | Relief Valve - 3200 PSI |
| ORF6 | Orifice - 0.047 |
| Wheel Motor Components | |
| LF | Wheel Motor - Left Front |
| LR | Wheel Motor - Left Rear |
| RV3 | Relief Valve - 3000 PSI - Cross Port Relief |
| RF | Wheel Motor - Right Front |
| RR | Wheel Motor - Right Rear |
| RV3 | Relief Valve - 3000 PSI - Cross Port Relief |
| P1 | Pump - Variable Displacement Pressure Compensated |
| FL1 | Return Filter - 10 Micron |
| CYL1 | Cylinder, Steering |
| Optional Outriggers Components | |
| CYL5 | Outrigger Cylinder |
| SV7 | Solenoid Valve, Poppet N.C. |
| SV8 | Solenoid Valve, Poppet N.C. |
| SV9 | Spool Valve, 4Way - 3 Position |

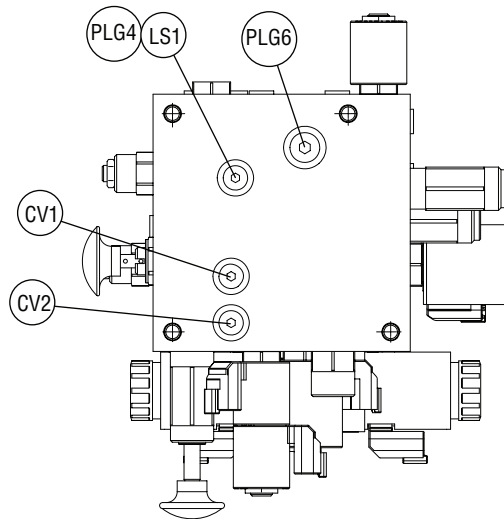
| Callout | Description |
|----------------------------|--|
| Manifold Components | |
| MA1 | Manifold, Main Valve Block |
| SVD1 | Spool Valve, Drive, 4 Way - 3 Position |
| SV1 | Spool Valve, Lift, 3 Way |
| SV2 | Spool Valve, Steer, 4 Way - 3 Position |
| SV3 - SV4 | Spool Valve, Series Parallel, 4 Way - 3 Position |
| SP1 | Proportional Valve - 12V |
| RV1 | Relief Valve, Lift - 2500 PSI |
| RV2 | Relief Valve, Steer - 1500 PSI |
| PD1 - PD2 - PD3 | Piloted Spool Valve, 4 Way - 3 Position |
| EP1 - EP2 | Piloted Poppet Valve |
| MP1 | Manual Pull Valve |
| LS1 - LS2 - LS3 | Load Sense Shuttle Check Valve |
| CBV1 - CBV2 | Counter Balance Valve |
| CL1 | Coil, Series 8 - 12V |
| CL2 | Coil, Series 10 - 12V |
| CL3 | Coil, Series 10 E-Coil - 12V |
| HP1 | Hand Pump, Brake Release |
| FD1 - FD2 | Flow Divider / Combiner |
| EC1 | Pressure Compensator |
| CV1 - CV2 | Check Valve, Load Sense |
| OD1 | Orifice Disc, Brake - 0.035 |
| OPL2 | Orifice Plug, Steer - 0.080 |
| OPL5 - OPL6 | Orifice Plug, Flow Divider Bleed - 0.025 |
| ORF5 | Orifice, Decent Control - 0.093 |



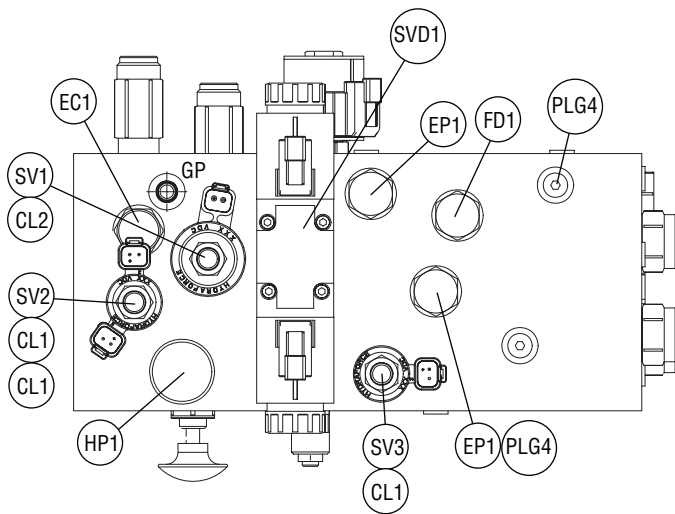
Main Hydraulic Manifold



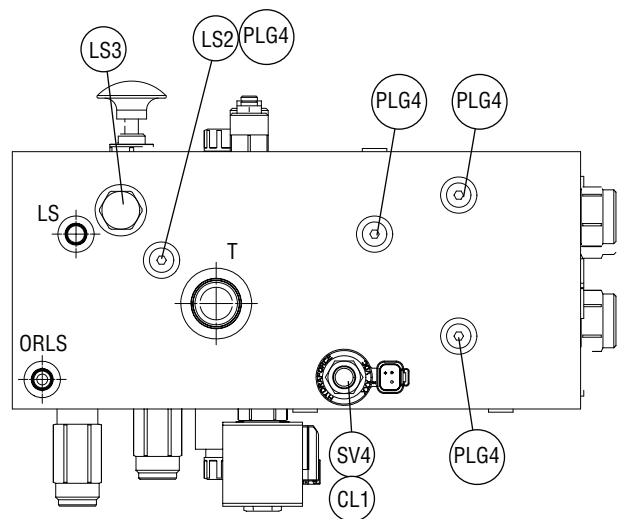
LEFT



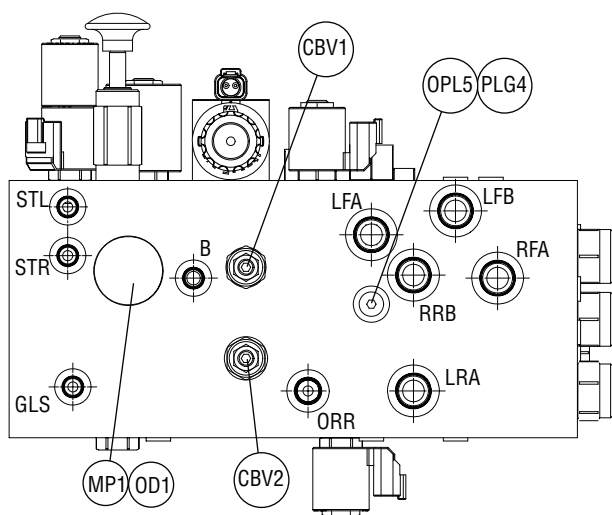
BOTTOM



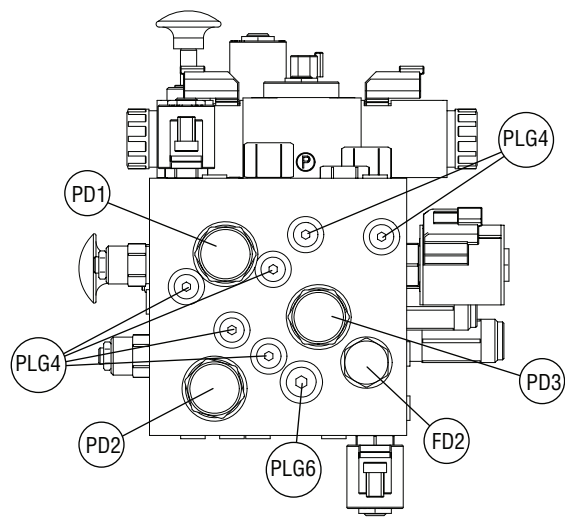
FRONT



BACK

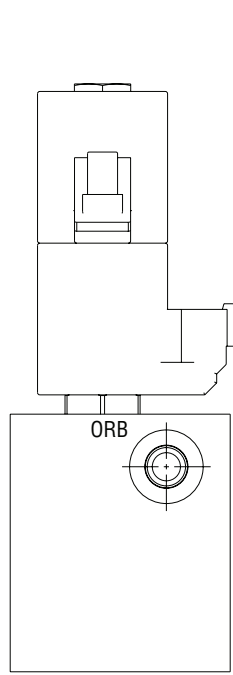


RIGHT

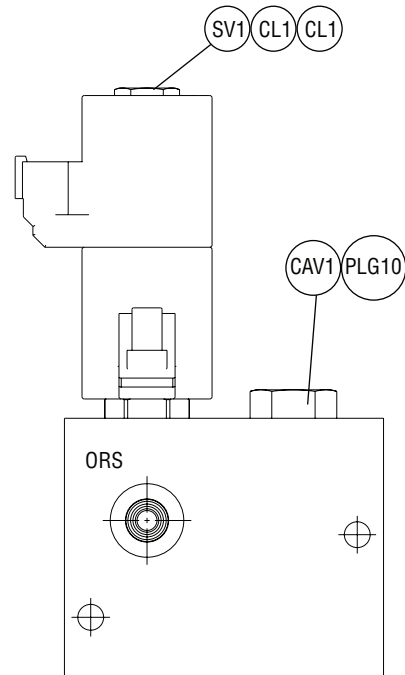


TOP

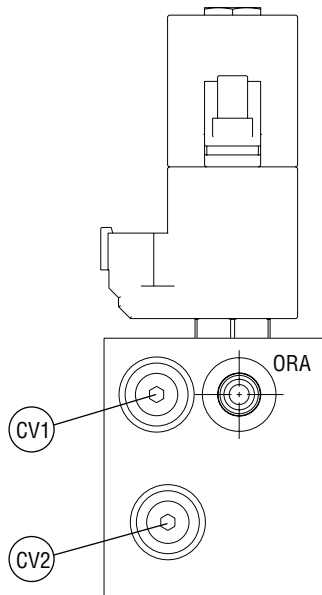
Optional Outriggers Hydraulic Manifold



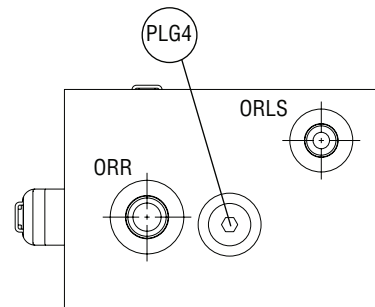
LEFT



FRONT

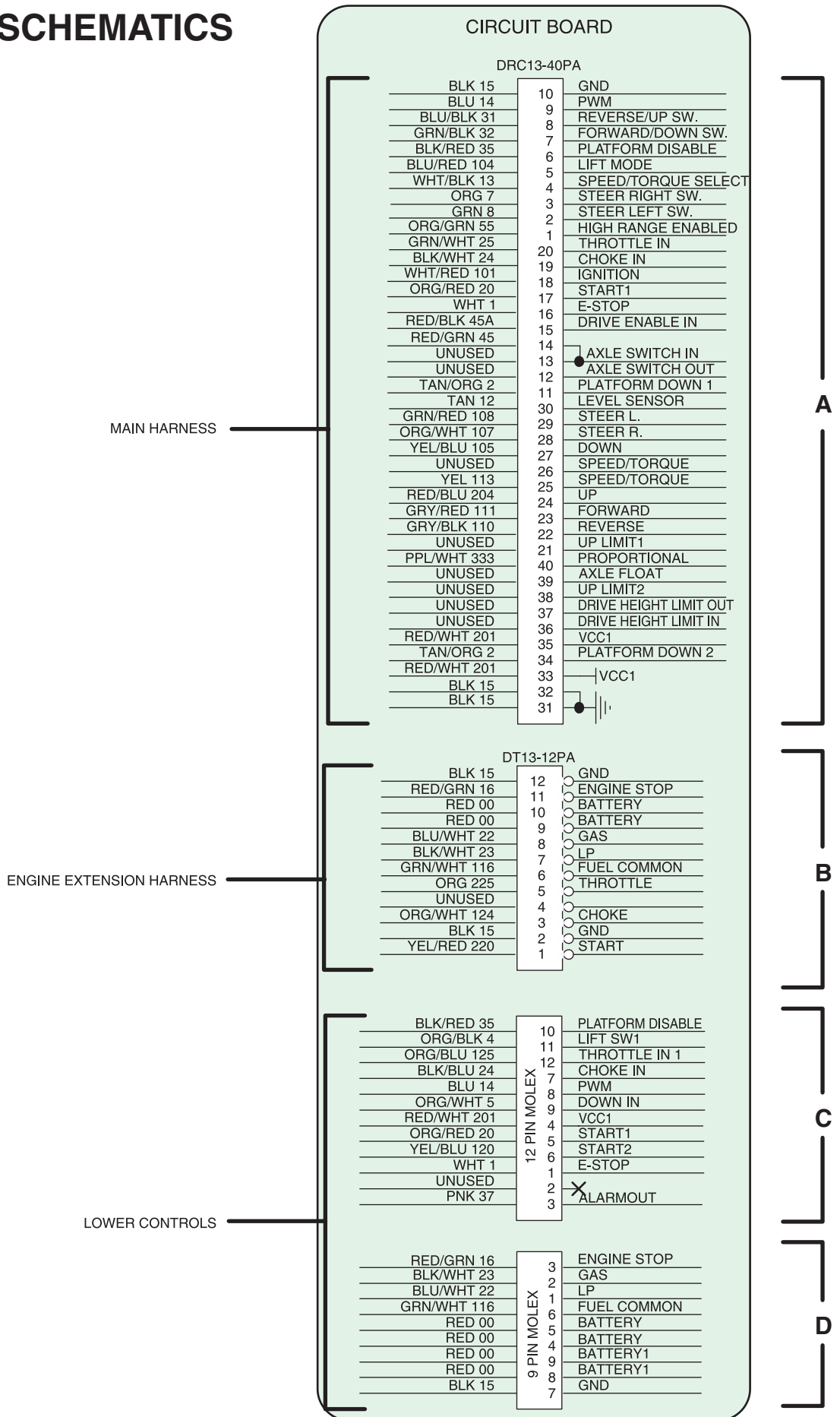


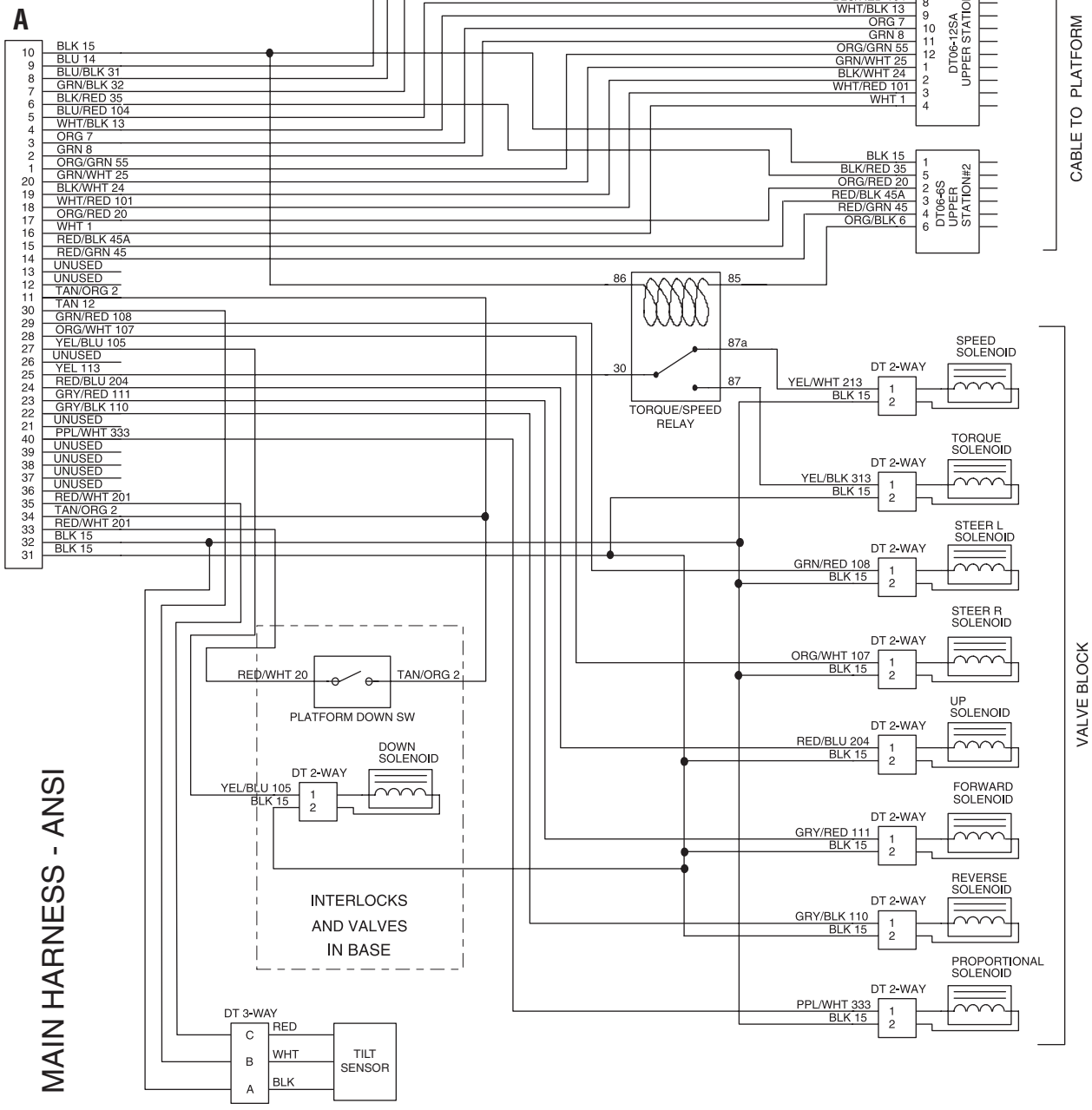
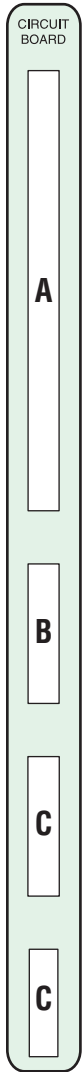
RIGHT



BOTTOM

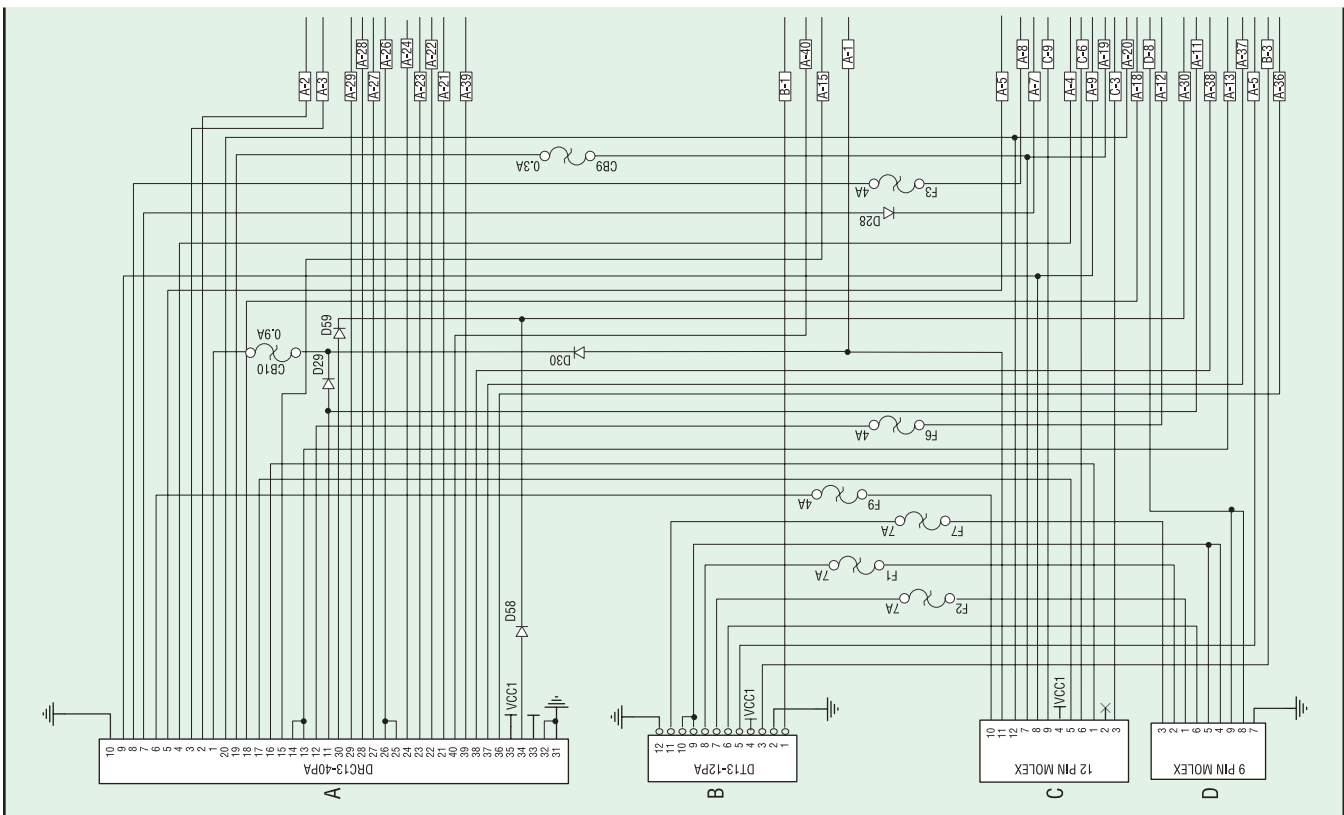
ELECTRIC SCHEMATICS

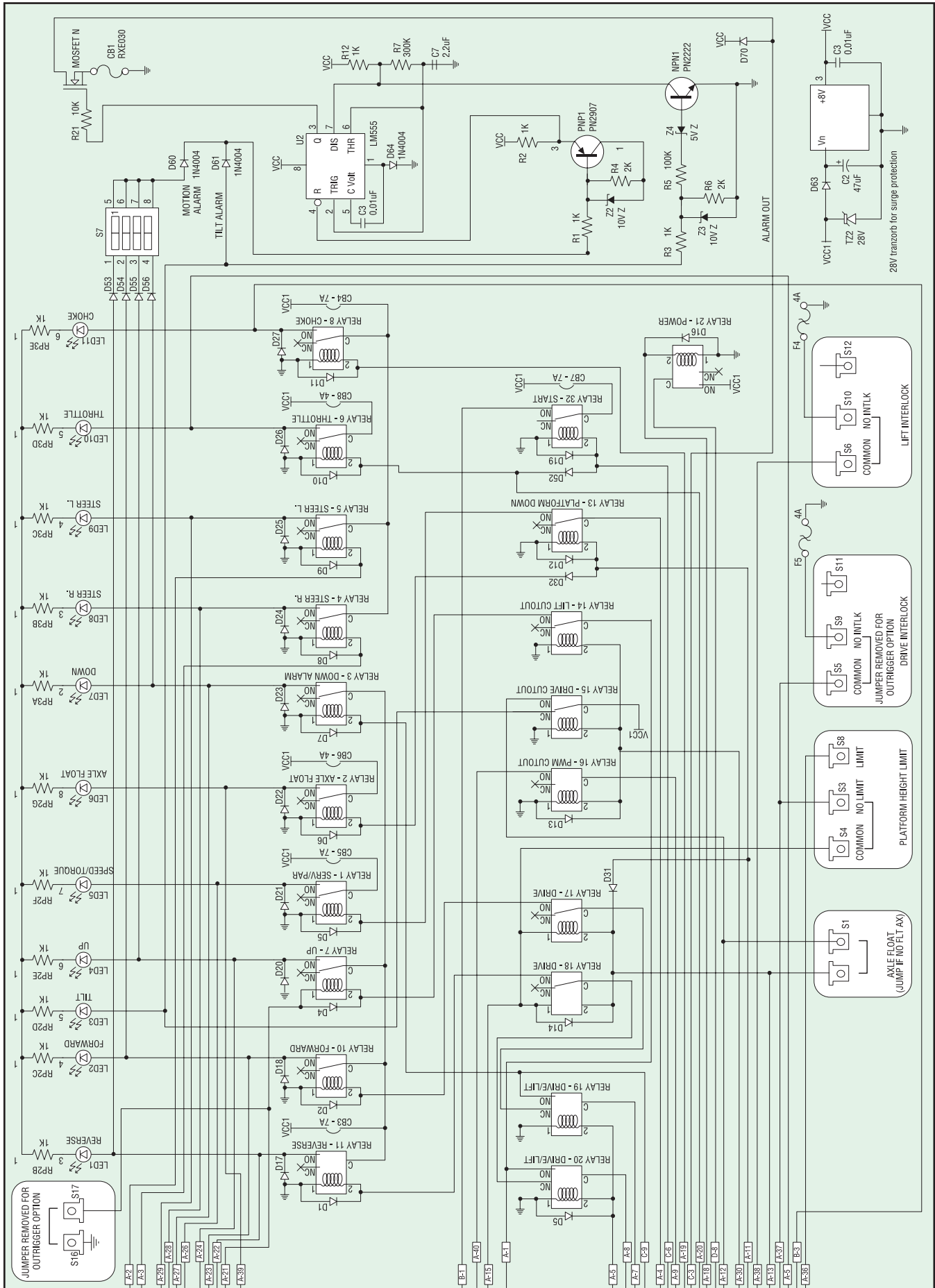




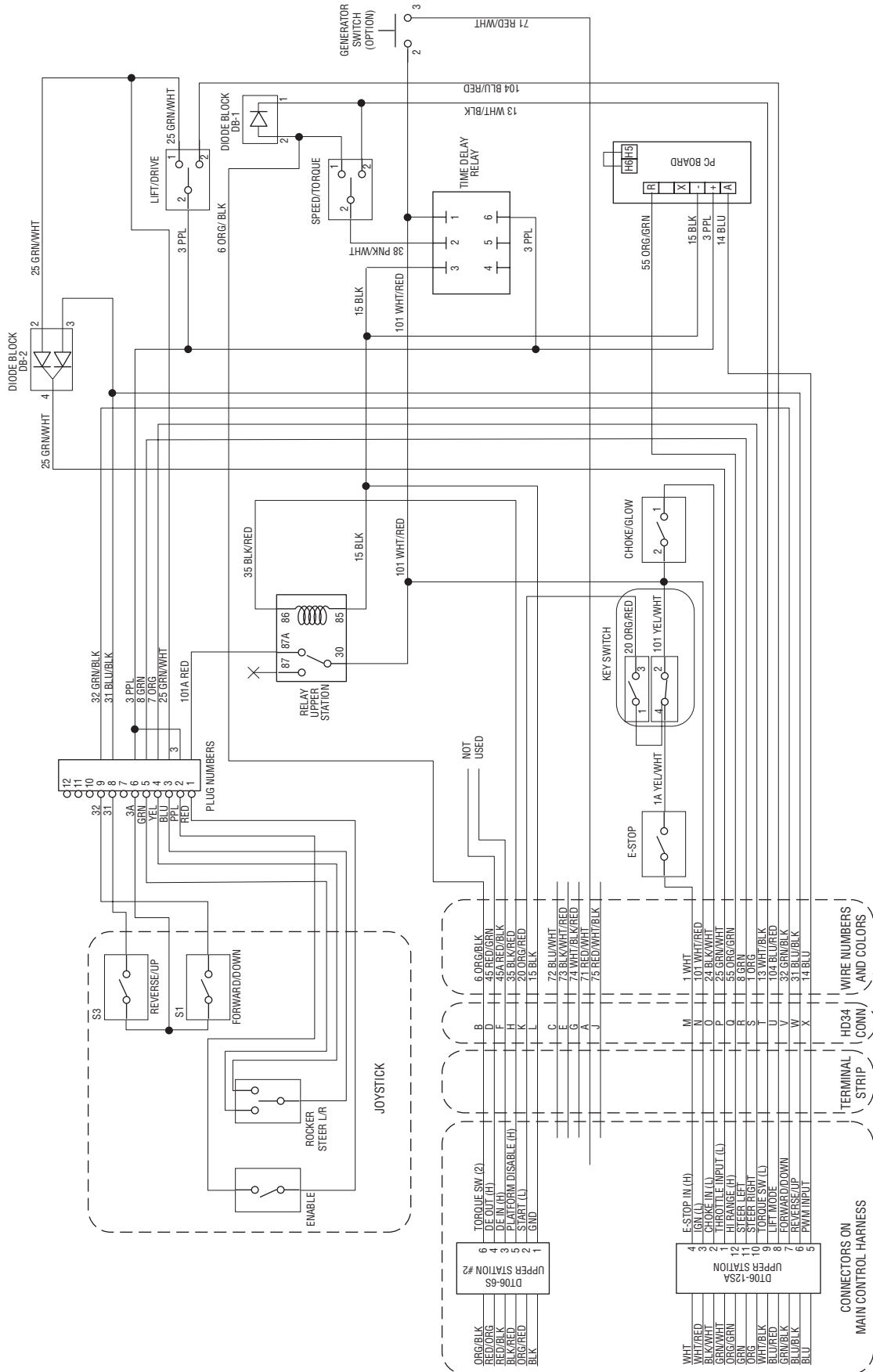
Circuit Board

The Circuit Board schematic is broken into two pages for clarity. The cable connections are shown on this page. Match the numbers to line-up the traces.

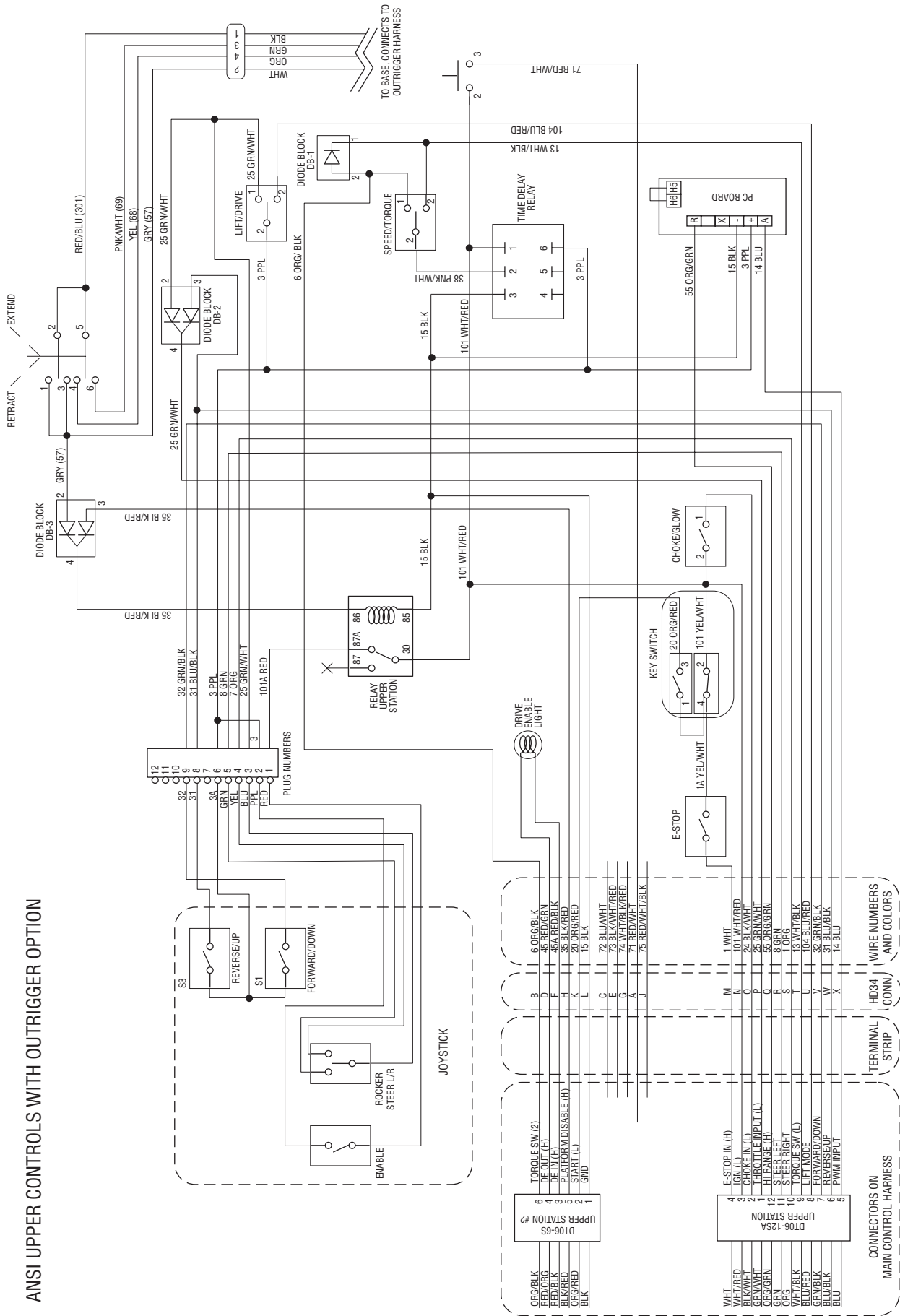




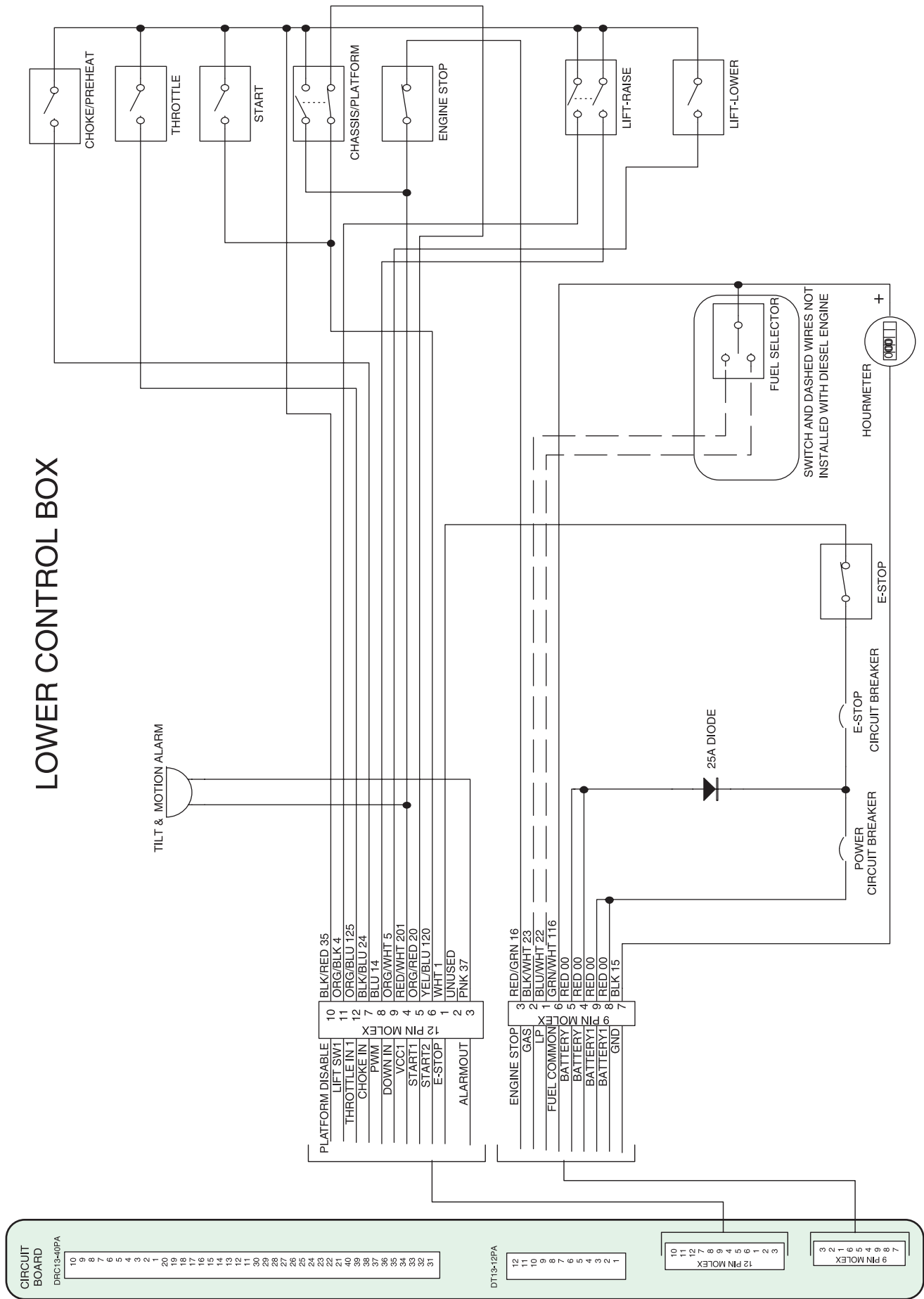
ANSI UPPER CONTROLS WITHOUT OUTRIGGER OPTION

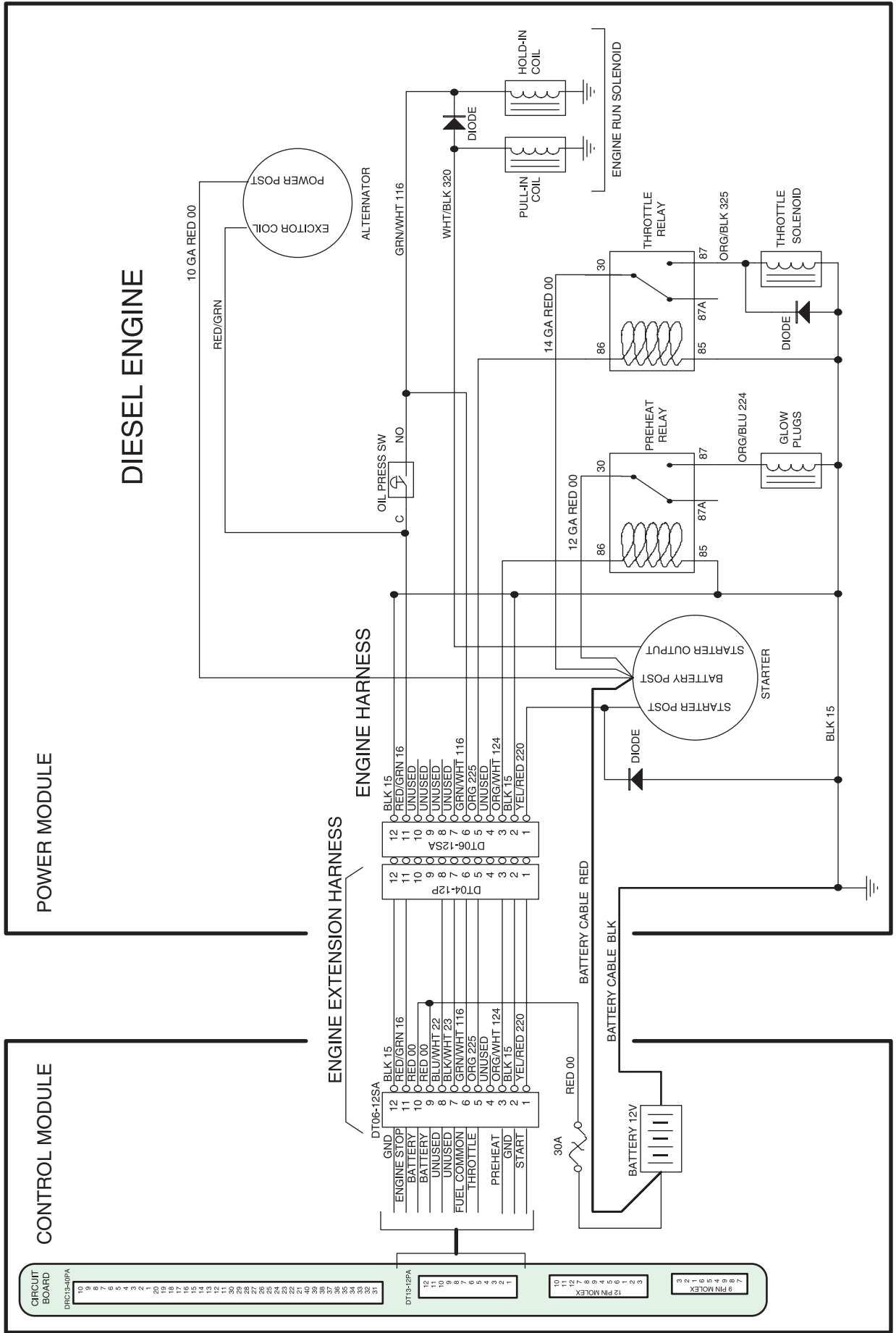


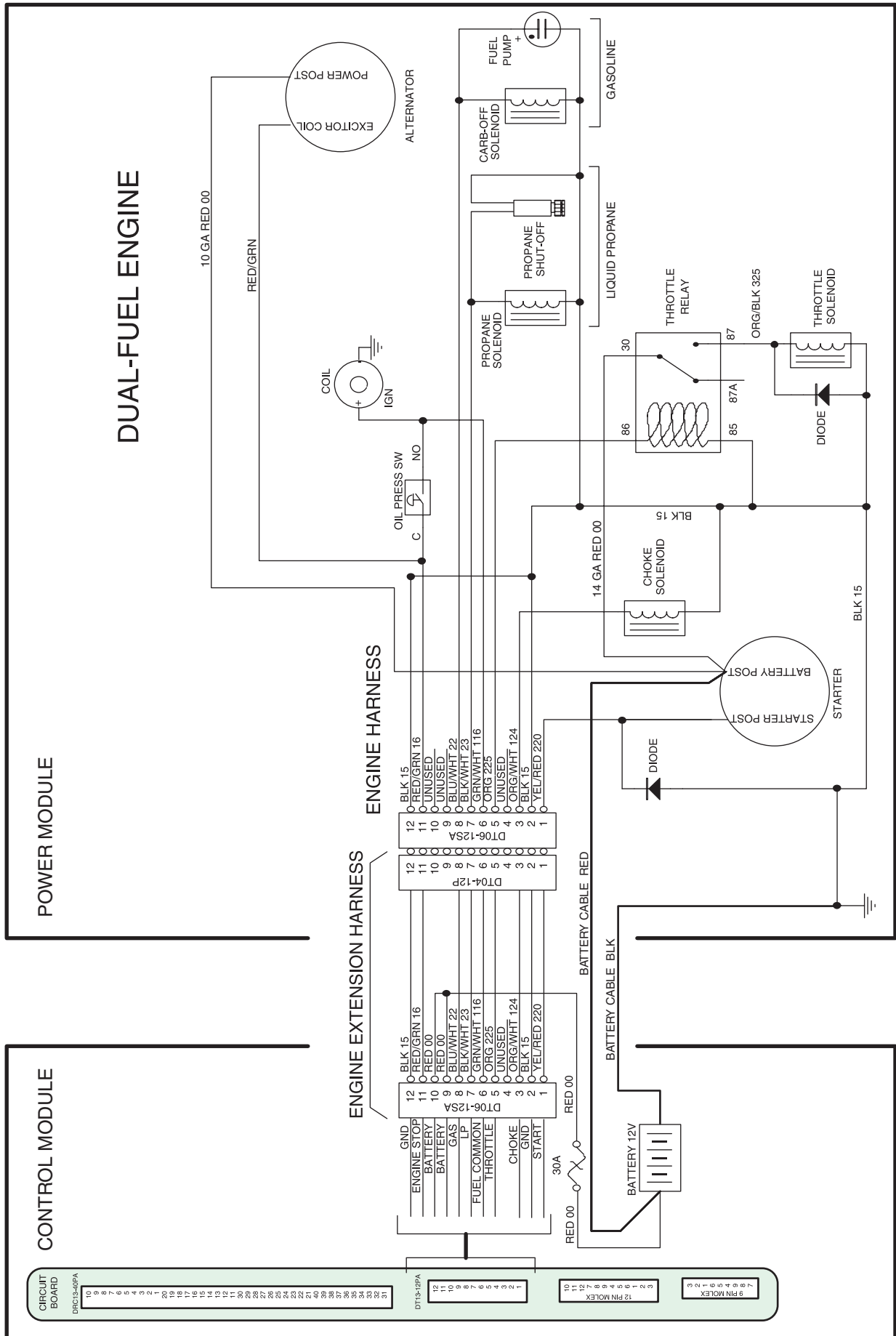
ANSI UPPER CONTROLS WITH OUTRIGGER OPTION



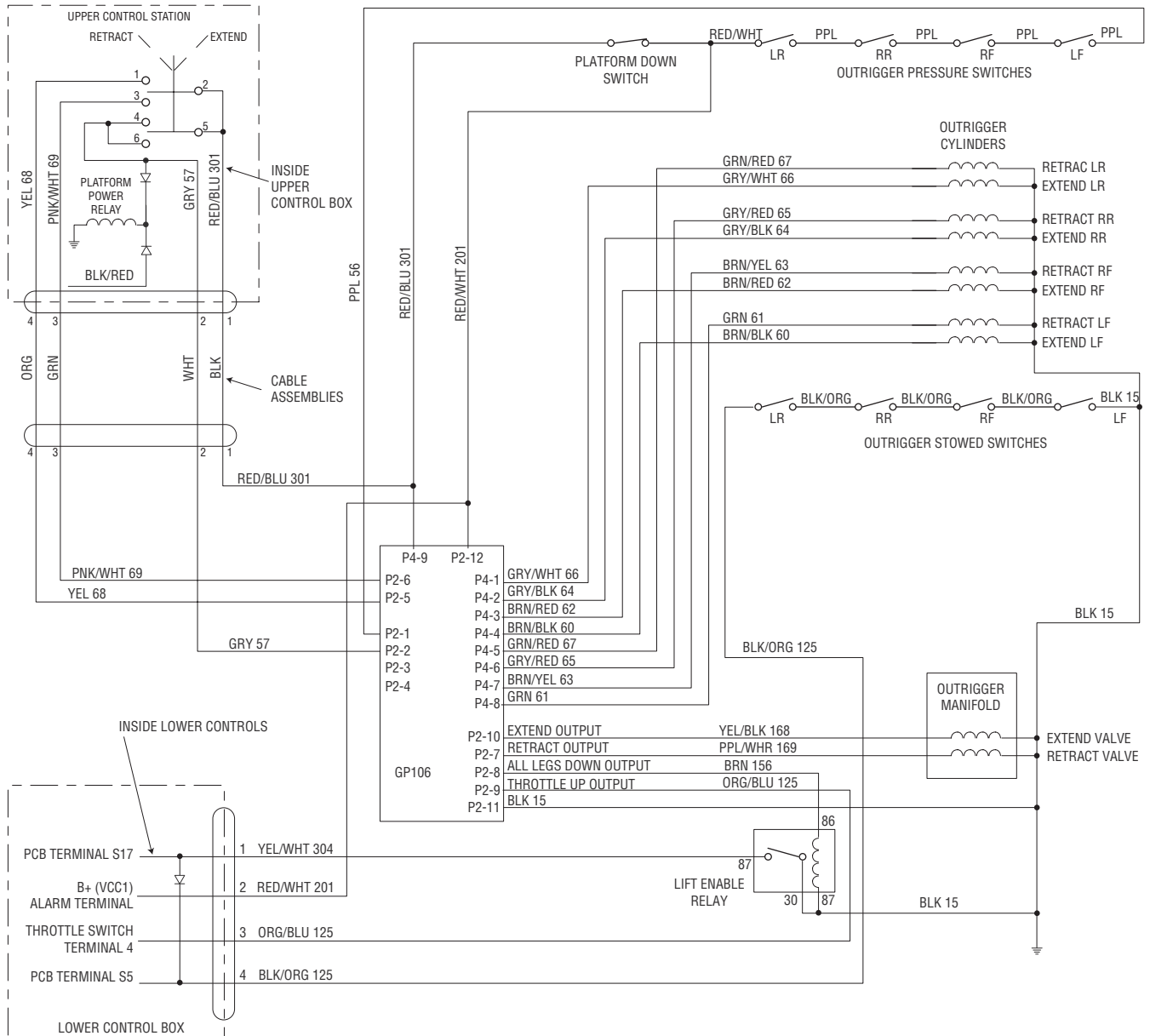
LOWER CONTROL BOX







Optional Outriggers



Optional Generator

