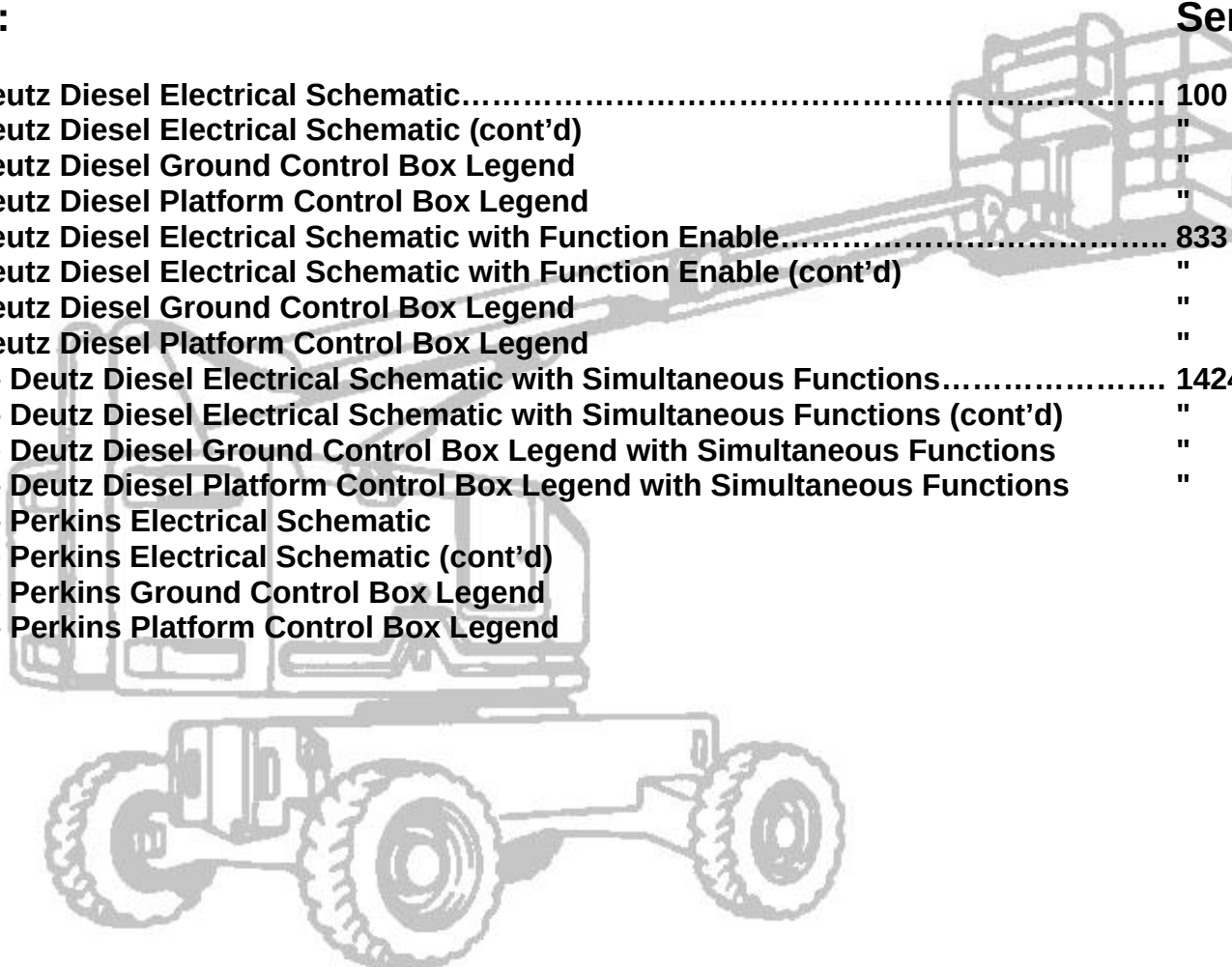




## S2 S40/45 Deutz/Perkins 2WD & 4WD

Page:      Model:      Serial Number:

|        |                                                                                 |              |   |   |   |
|--------|---------------------------------------------------------------------------------|--------------|---|---|---|
| S2-01A | S40 – Deutz Diesel Electrical Schematic.....                                    | 100 to 831   |   |   |   |
| S2-01B | S40 – Deutz Diesel Electrical Schematic (cont'd)                                | "            | " | " | " |
| S2-02  | S40 – Deutz Diesel Ground Control Box Legend                                    | "            | " | " | " |
| S2-03  | S40 – Deutz Diesel Platform Control Box Legend                                  | "            | " | " | " |
| S2-04A | S40 – Deutz Diesel Electrical Schematic with Function Enable.....               | 833 to 1413  |   |   |   |
| S2-04B | S40 – Deutz Diesel Electrical Schematic with Function Enable (cont'd)           | "            | " | " | " |
| S2-05  | S40 – Deutz Diesel Ground Control Box Legend                                    | "            | " | " | " |
| S2-06  | S40 – Deutz Diesel Platform Control Box Legend                                  | "            | " | " | " |
| S2-07A | S40/45 – Deutz Diesel Electrical Schematic with Simultaneous Functions.....     | 1424 & above |   |   |   |
| S2-07B | S40/45 – Deutz Diesel Electrical Schematic with Simultaneous Functions (cont'd) | "            | " | " | " |
| S2-08  | S40/45 – Deutz Diesel Ground Control Box Legend with Simultaneous Functions     | "            | " | " | " |
| S2-09  | S40/45 – Deutz Diesel Platform Control Box Legend with Simultaneous Functions   | "            | " | " | " |
| S2-10A | S40/45 – Perkins Electrical Schematic                                           |              |   |   |   |
| S2-10B | S40/45 – Perkins Electrical Schematic (cont'd)                                  |              |   |   |   |
| S2-11  | S40/45 – Perkins Ground Control Box Legend                                      |              |   |   |   |
| S2-12  | S40/45 – Perkins Platform Control Box Legend                                    |              |   |   |   |



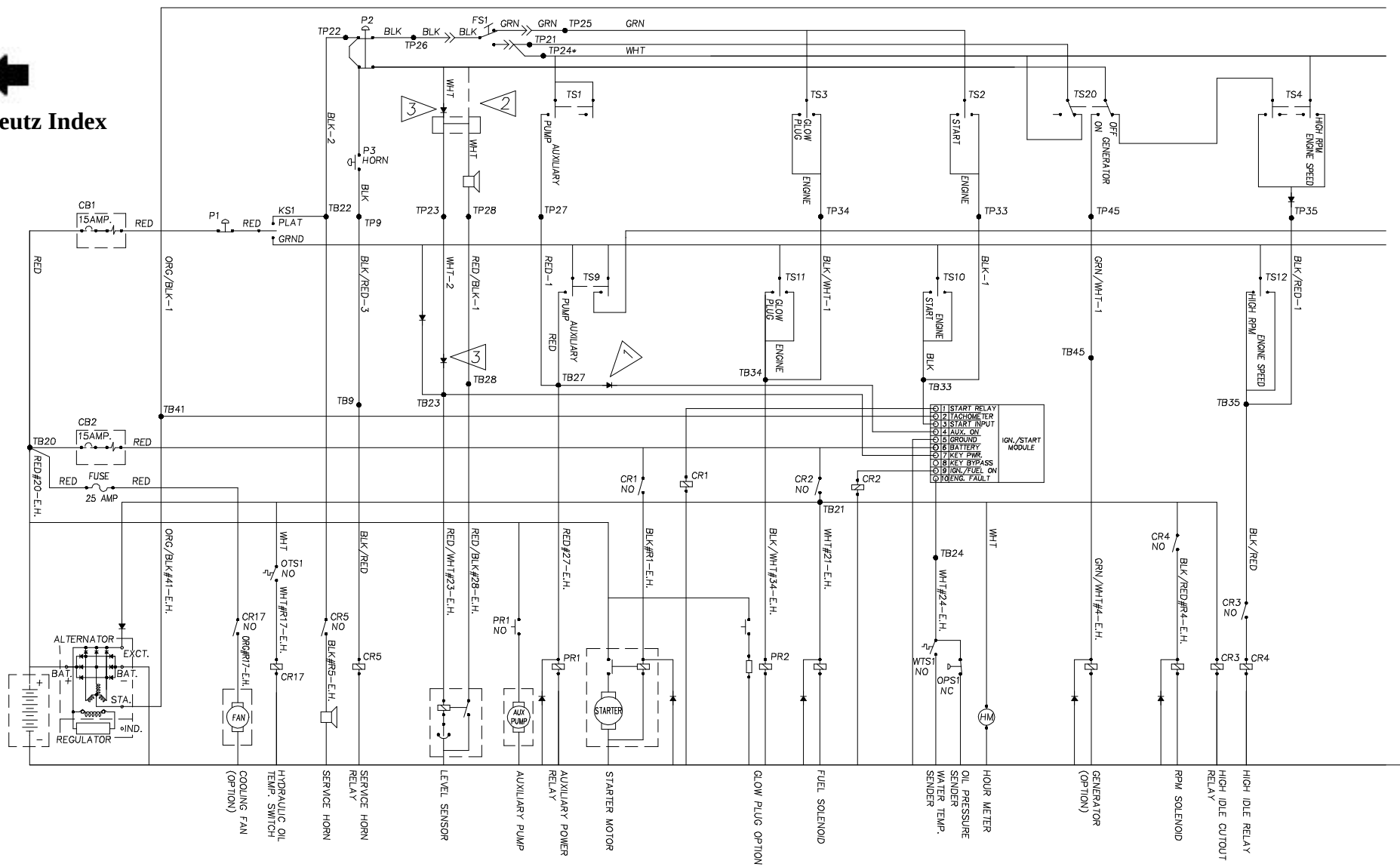
NOTES: THE FOLLOWING WIRING CHANGES TAKE PLACE AT SERIAL #333 AND ABOVE.

- 1 THE 6AMP DIODE WAS REMOVED.
- 2 THE TILT ALARM WAS REWIRED.
- 3 THE 6 AMP DIODE WAS RELOCATED TO THE PLATFORM WHEN THE TILT ALARM WAS REWIRED.

\* CIRCUIT CONNECTION TO TP24 IS FOR UNITS WITHOUT THE GENERATOR OPTION.

# S40 DEUTZ DIESEL ELECTRICAL SCHEMATIC SERIAL # 100 TO 831

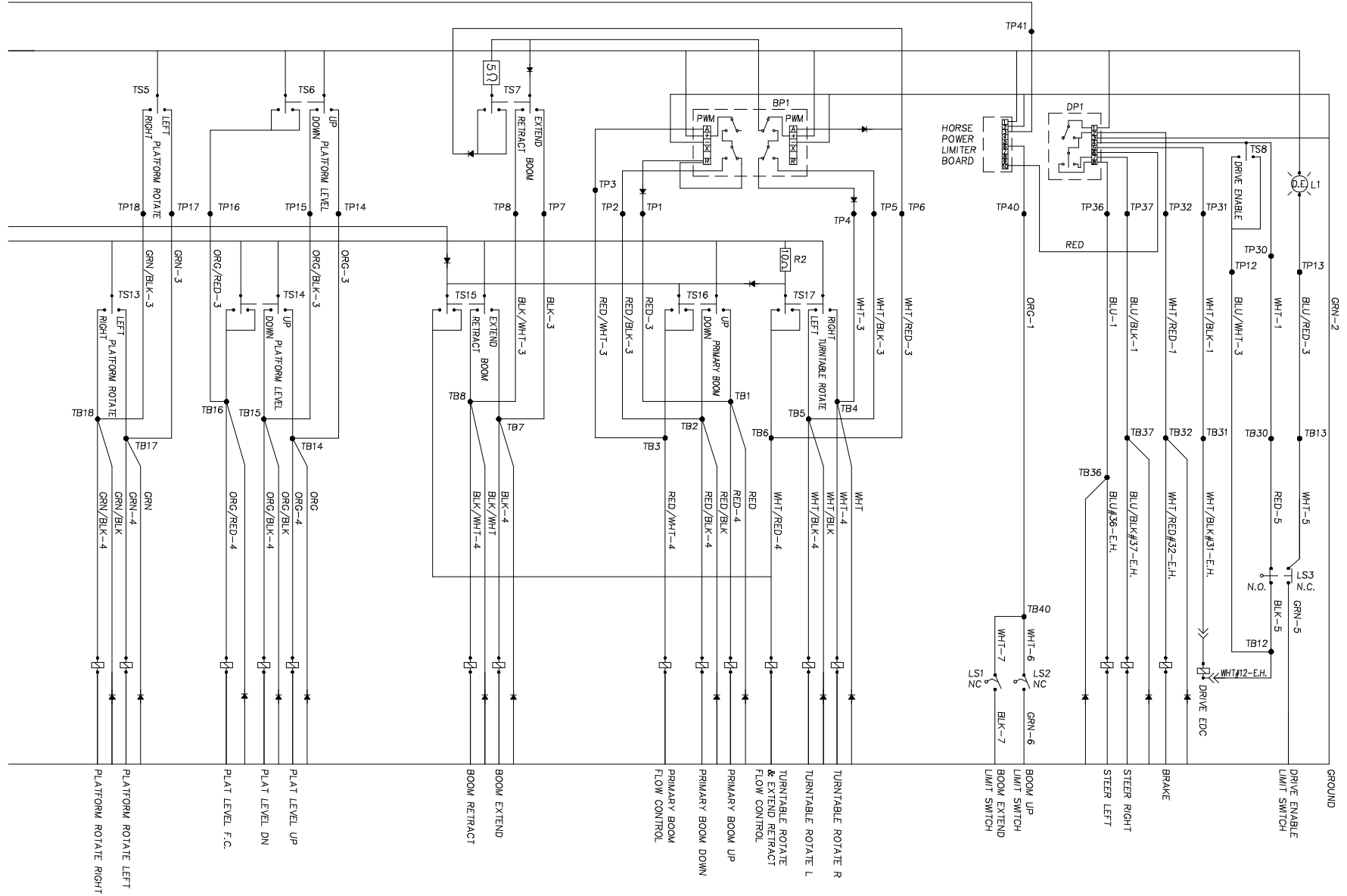
## S40/45 Deutz Index





# S40/45 Deutz Index

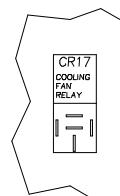
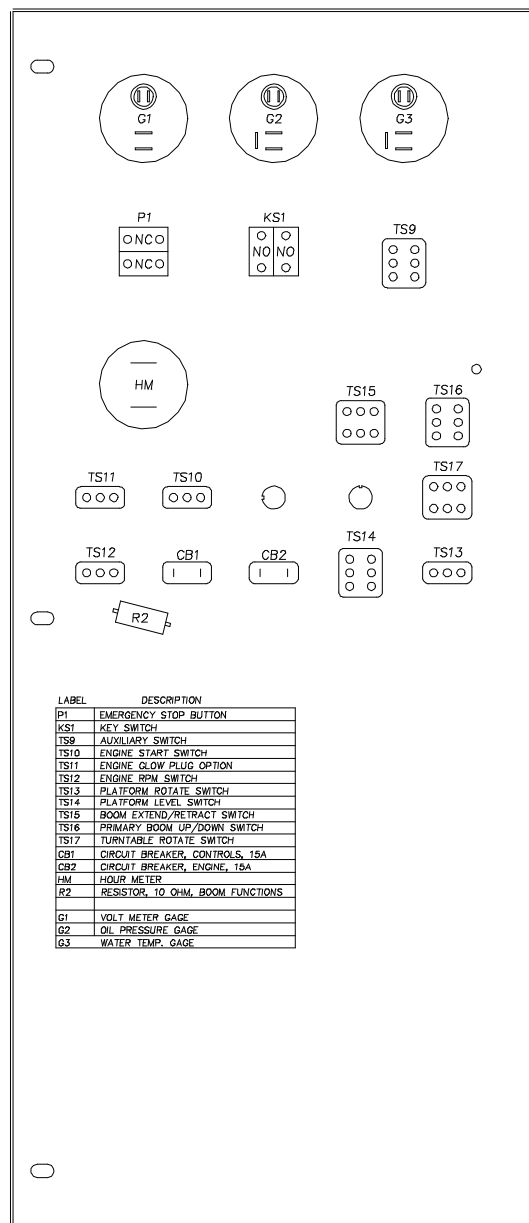
S40 DEUTZ DIESEL  
ELECTRICAL SCHEMATIC (cont'd)  
SERIAL # 100 TO 831



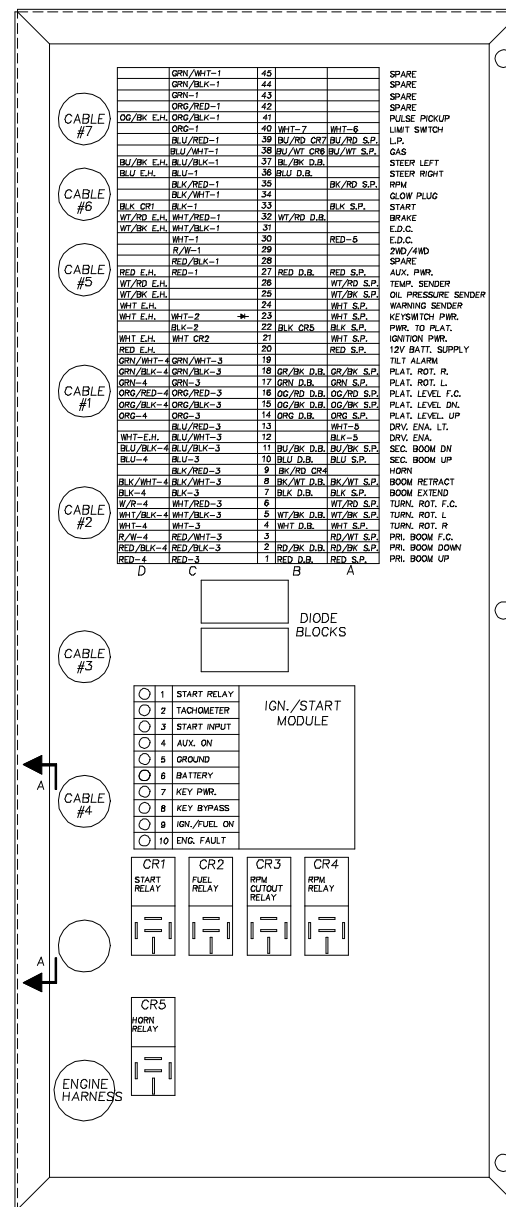


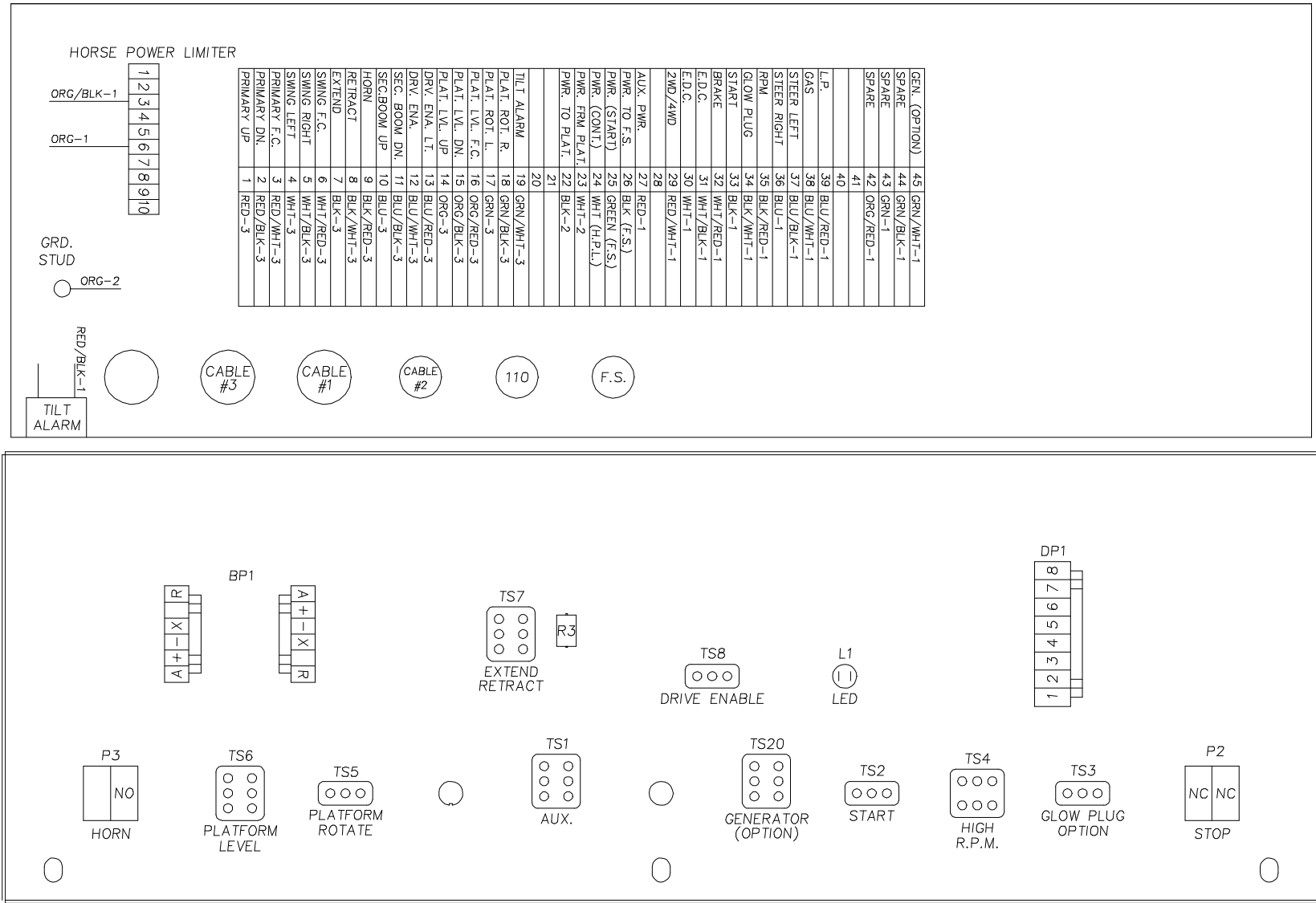
## S40/45 Deutz Index

S40 DEUTZ DIESEL  
GROUND CONTROL BOX LEGEND  
SERIAL # 100 TO 831

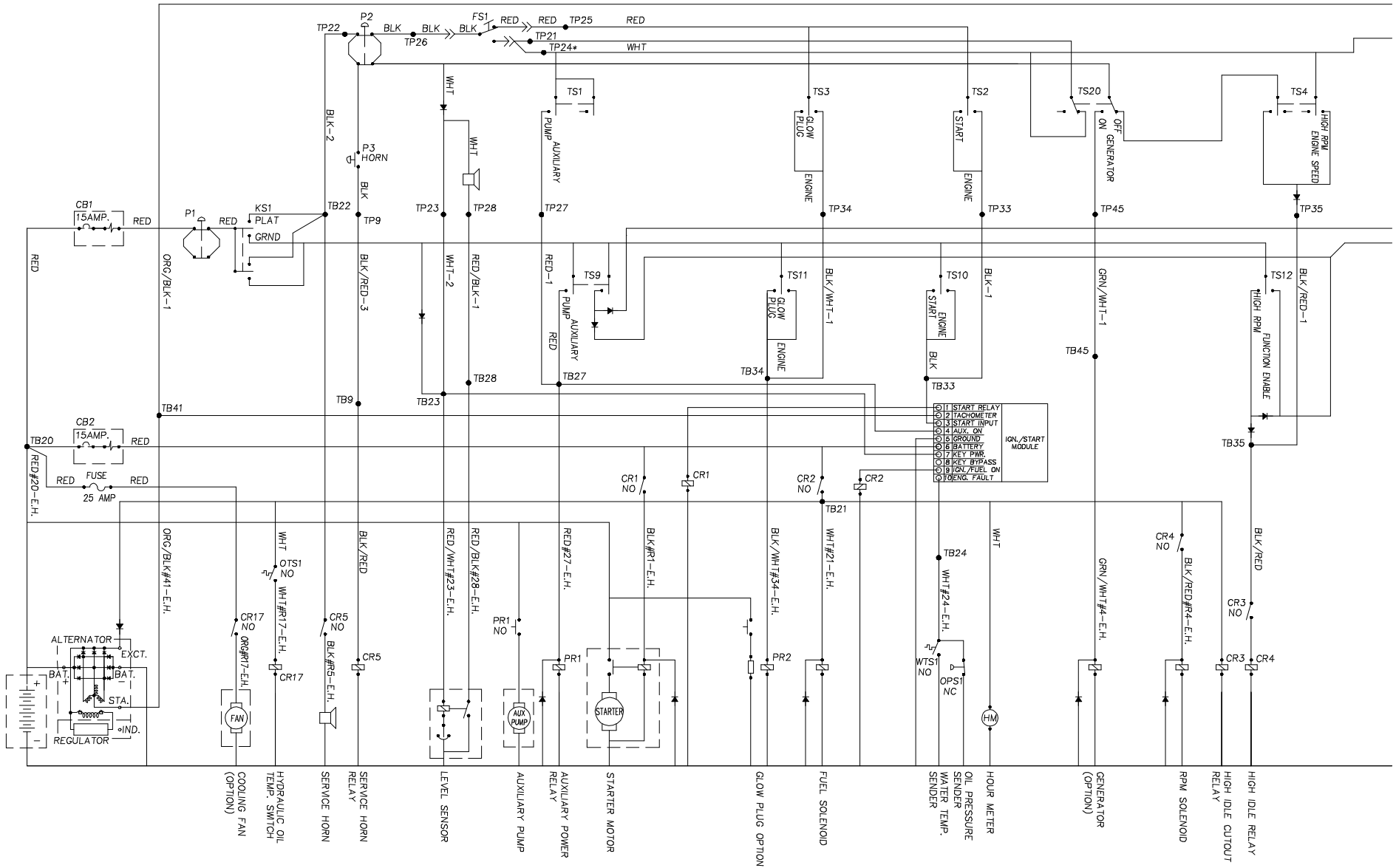


SECTION A-A



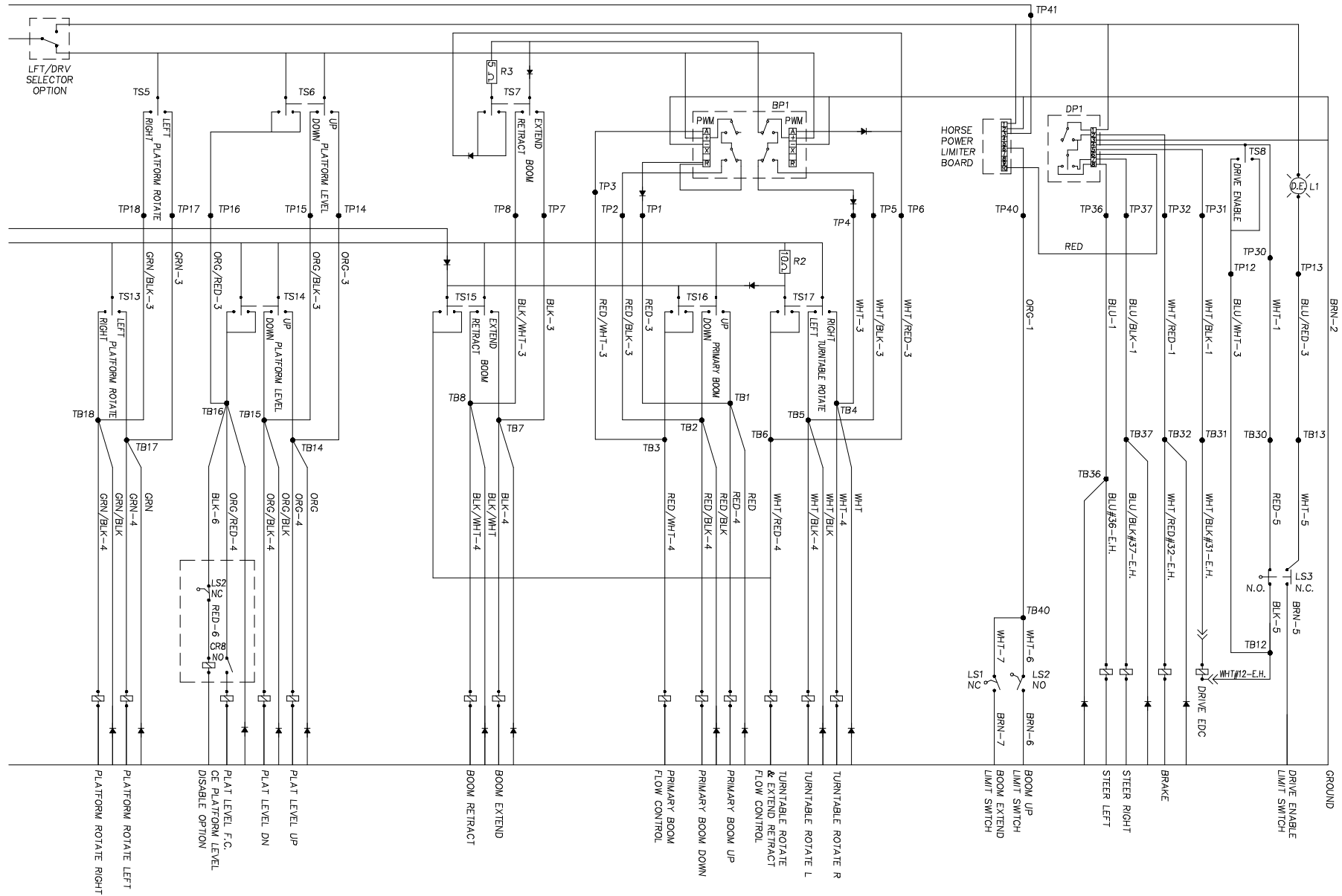


\*NOTE: CIRCUIT CONNECTION TO TP24 IS FOR UNITS WITHOUT GENERATOR OPTION.



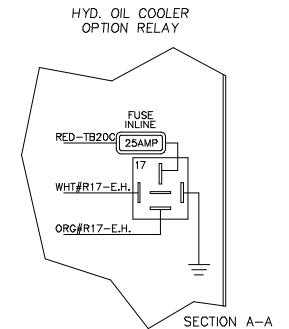
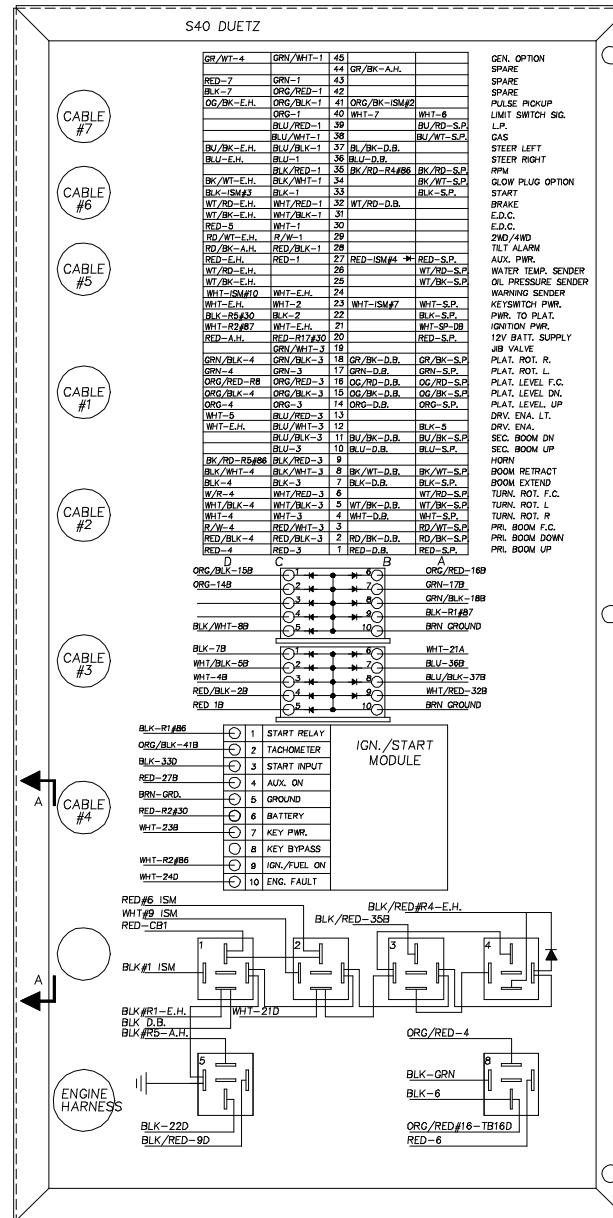
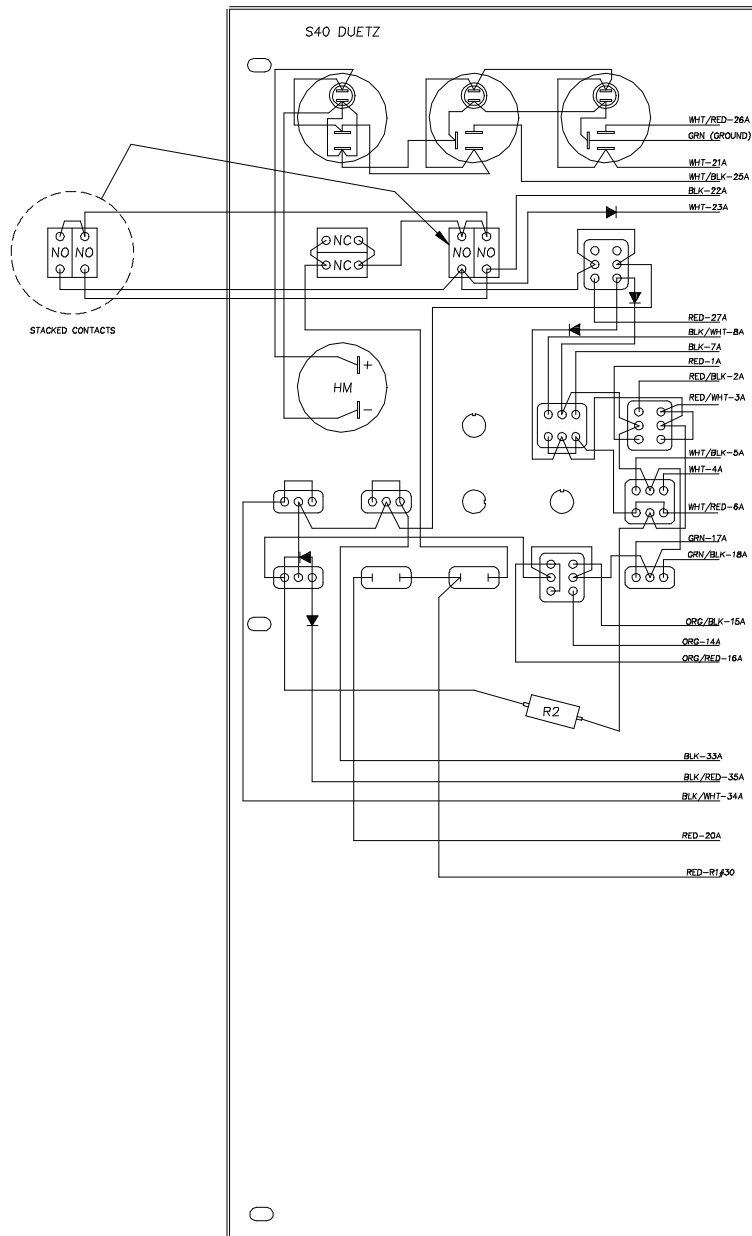
**S40/45 Deutz Index**

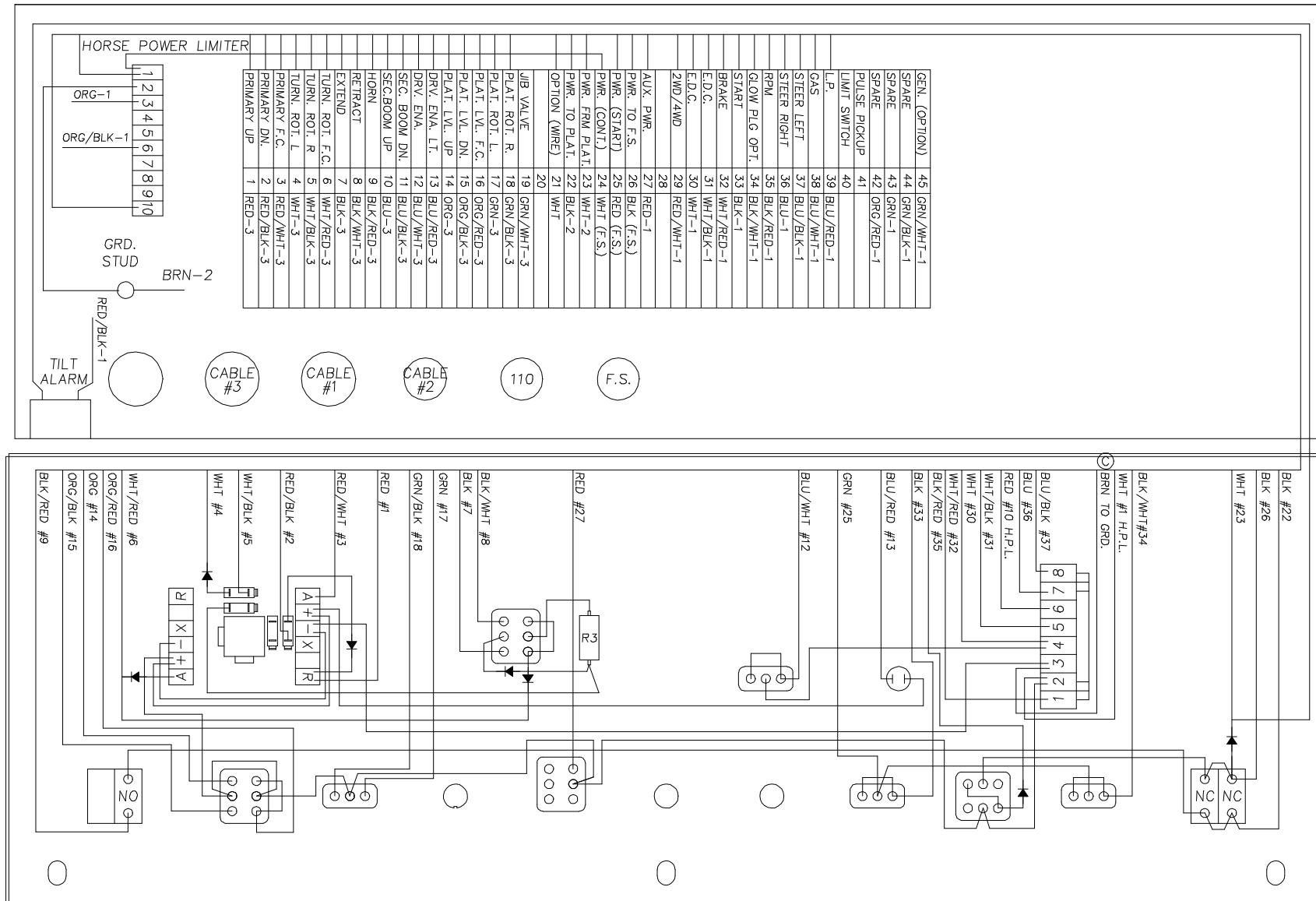
**S40 DEUTZ DIESEL  
ELECTRICAL SCHEMATIC  
WITH FUNCTION ENABLE (cont'd)  
SERIAL # 833 TO 1413**



# S40/45 Deutz Index

## S40 DEUTZ DIESEL GROUND CONTROL BOX LEGEND SERIAL # 833 TO 1413







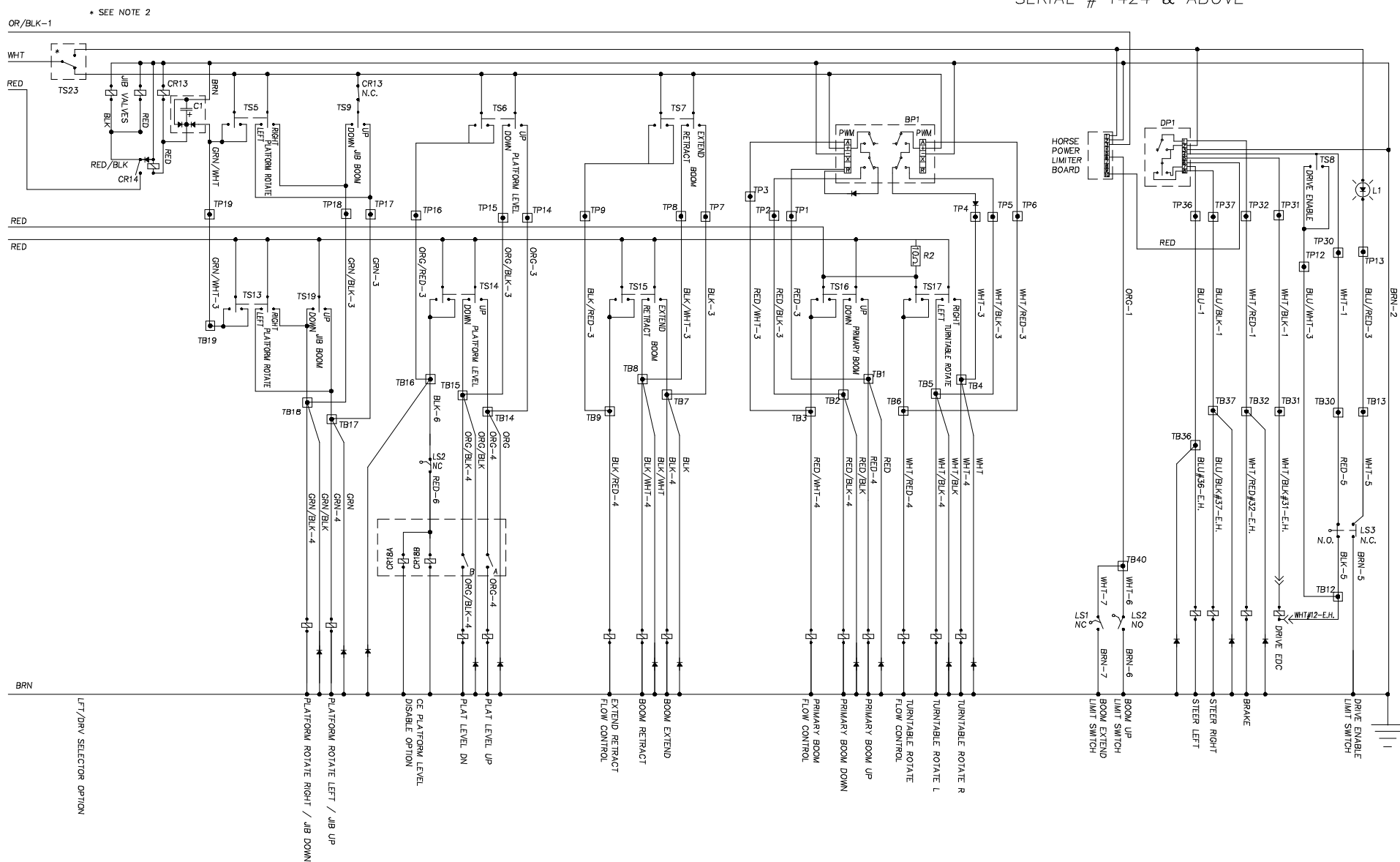
ORG/BLK-1



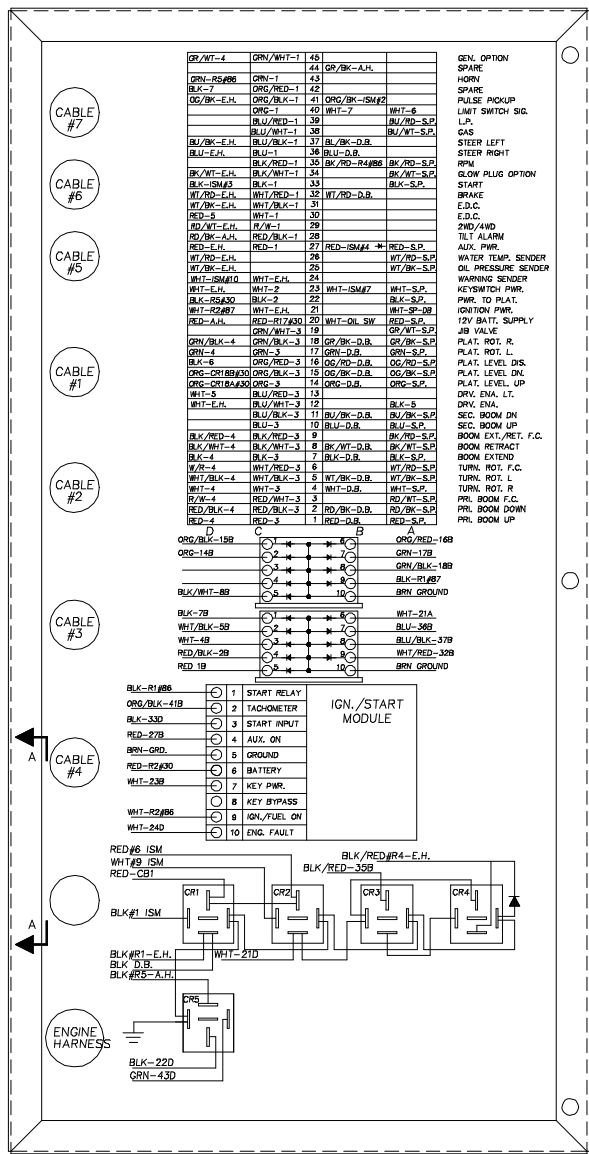
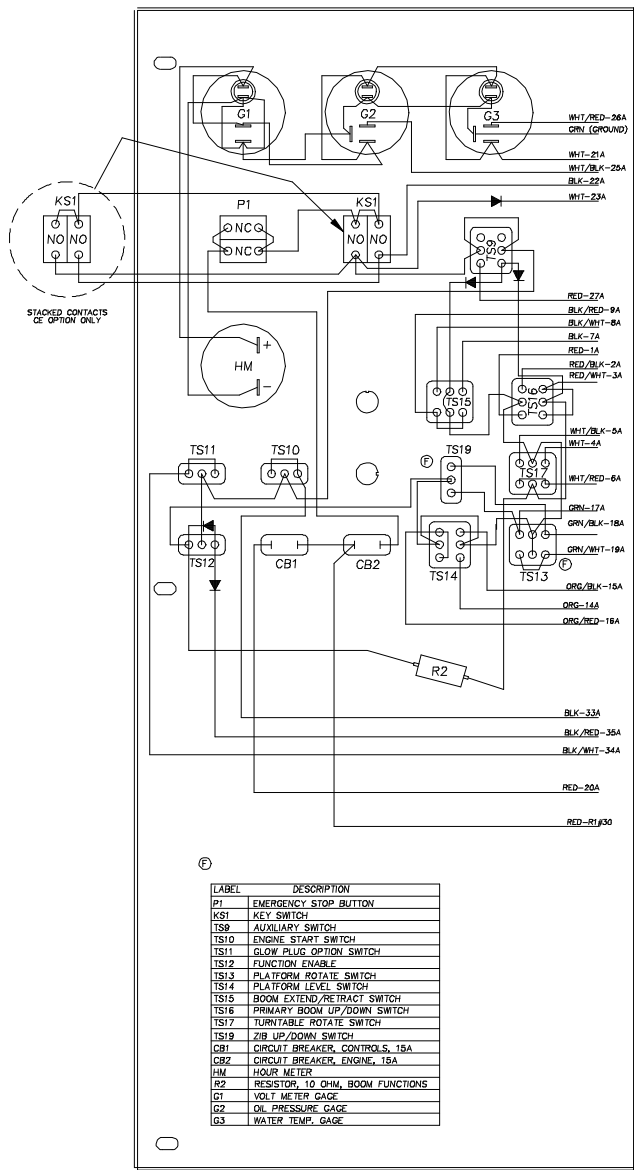
1. CIRCUIT CONNECTION TO TP24 IS FOR UNITS WITHOUT GENERATOR OPTION.
2. THE FOOTSWITCH POWER IS CONNECTED TO BOTH WHT WIRES WITHOUT THE LIFT/DRIVE SELECTOR OPTION.
3. ALL SWITCHES AND CONTACTS ARE SHOWN WITH THE BOOM IN THE STOWED POSITION AND THE KEYSWITCH OFF.



S40/45 DEUTZ DIESEL  
ELECTRICAL SCHEMATIC  
WITH SIMULTANEOUS FUNCTIONS (cont'd)  
SERIAL # 1424 & ABOVE

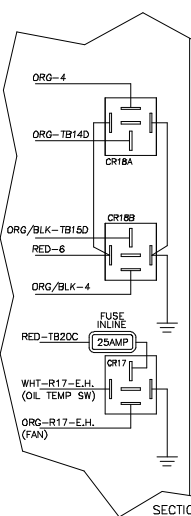


# S40/45 Deutz Index



S40/45 DEUTZ DIESEL  
GROUND CONTROL BOX LEGEND  
WITH SIMULTANEOUS FUNCTIONS  
SERIAL # 1424 & ABOVE

PLATFORM LEVEL DISABLE &  
HYD. OIL COOLER  
OPTION RELAYS

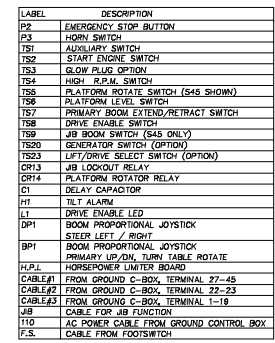


SECTION A-A

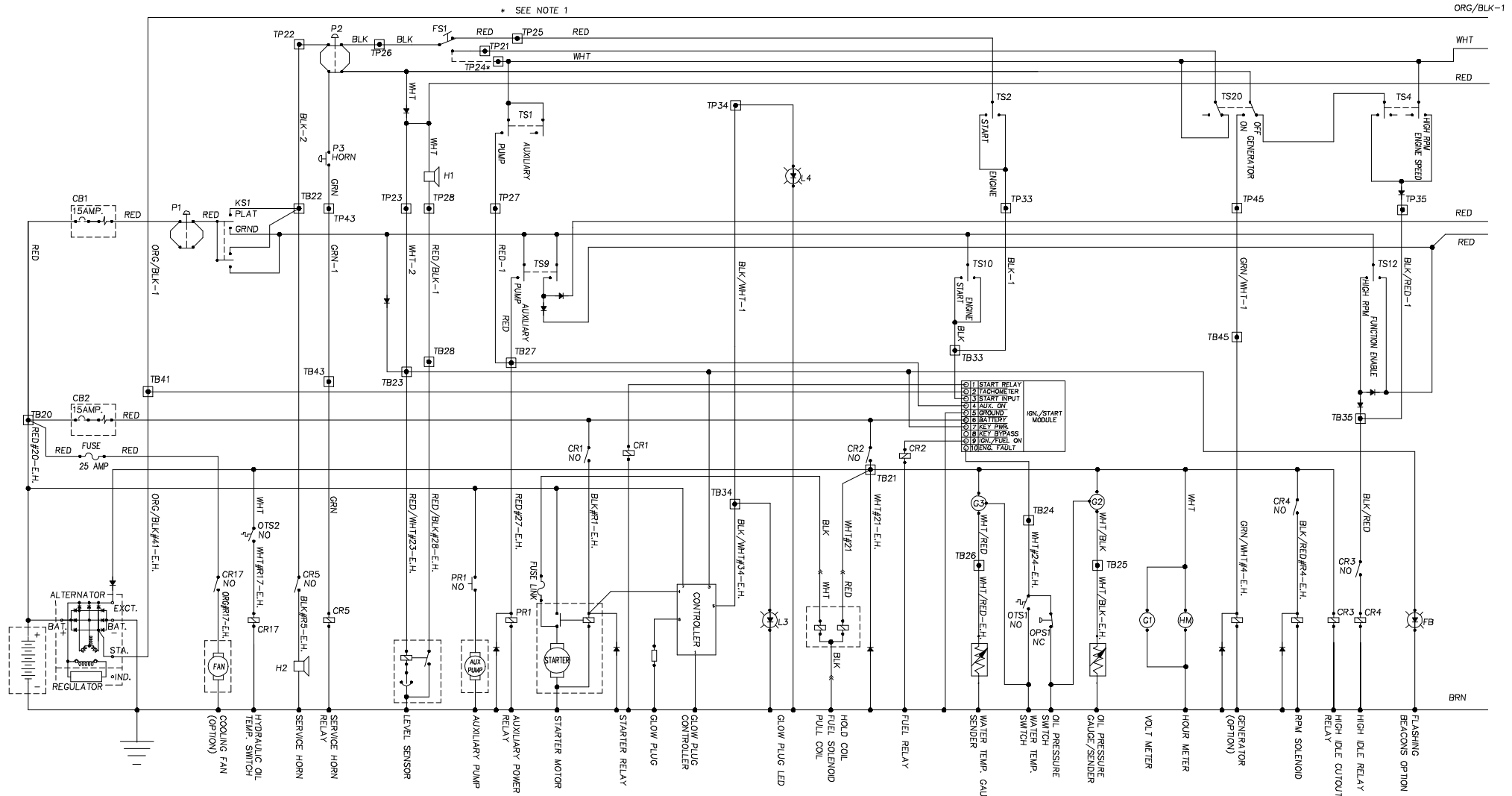
| LABEL         | DESCRIPTION                       |
|---------------|-----------------------------------|
| CR1           | IGN/START RELAY                   |
| CR2           | ING./POWER RELAY                  |
| CR3           | HIGH IDLE (RPM) CUTOFF RELAY      |
| CR4           | RPM RELAY                         |
| CR5           | SERVICE HORN RELAY                |
| CR17          | HYD. OIL COOLER OPTION RELAY      |
| CR18          | CE PLATFORM LEVEL RELAY           |
| LS1 (CABLE#7) | BOOM UP LIMIT SWITCH              |
| LS2 (CABLE#6) | BOOM UP LIMIT SWITCH              |
| LS3 (CABLE#5) | DRIVE ENABLE LIMIT SWITCH         |
| (CABLE#1)     | TO PLATFORM C-BOX, TERMINAL 27-45 |
| (CABLE#2)     | TO PLATFORM C-BOX, TERMINAL 22-23 |
| (CABLE#3)     | TO PLATFORM C-BOX, TERMINAL 1-19  |
| (CABLE#4)     | TO CONTROL SOLENOID               |
| PR1           | AUXILIARY POWER RELAY             |
| PR2           | GLOW PLUG POWER RELAY             |



S40/45 DEUTZ DIESEL  
PLATFORM CONTROL BOX LEGEND  
WITH SIMULTANEOUS FUNCTIONS  
SERIAL # 1424 & ABOVE



S40/45 DEUTZ PLATFORM CONTROL BOX - SEE S40/45 FORD WIRING DIAGRAM FOR GENERATOR OPTION

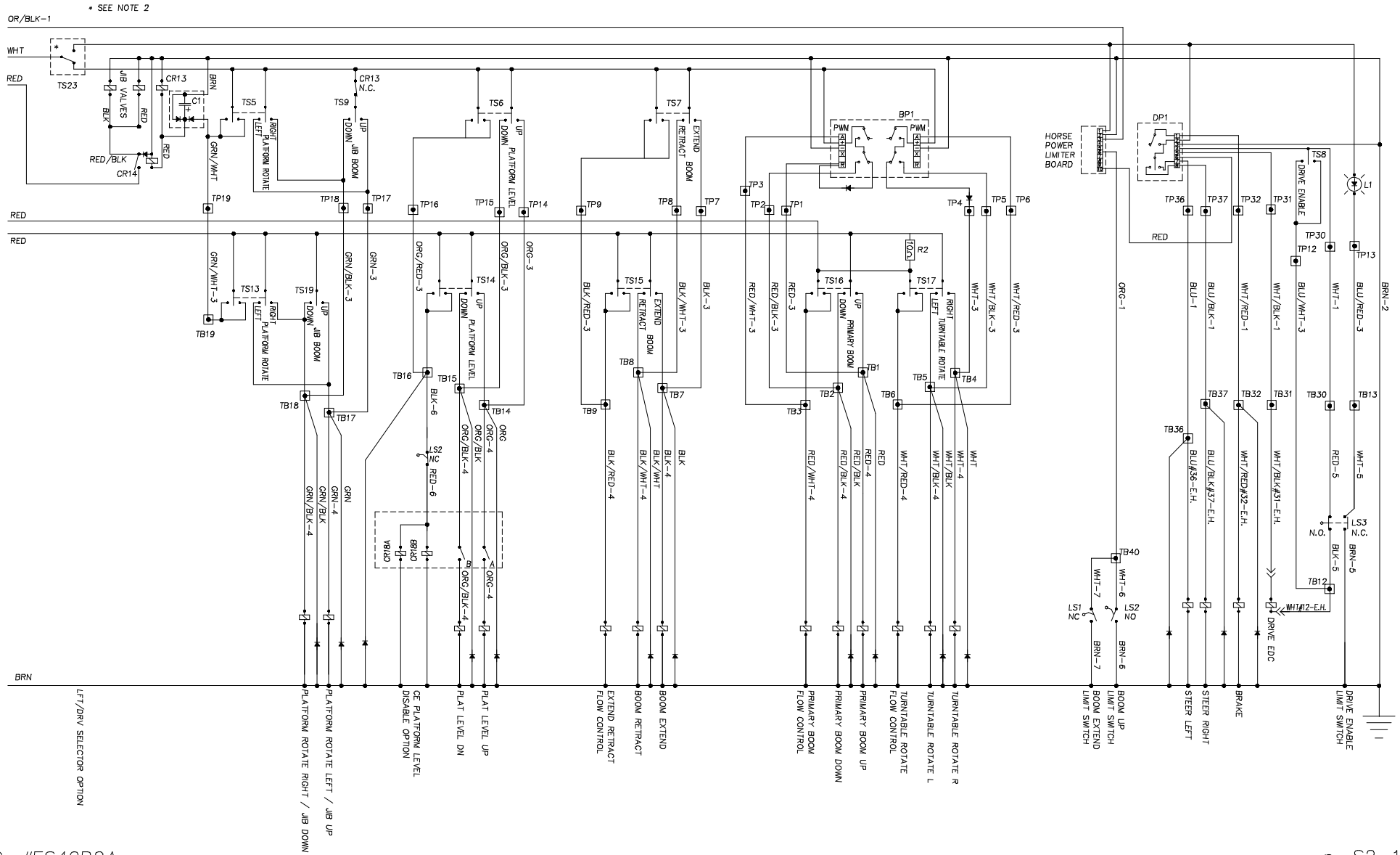


NOTES:

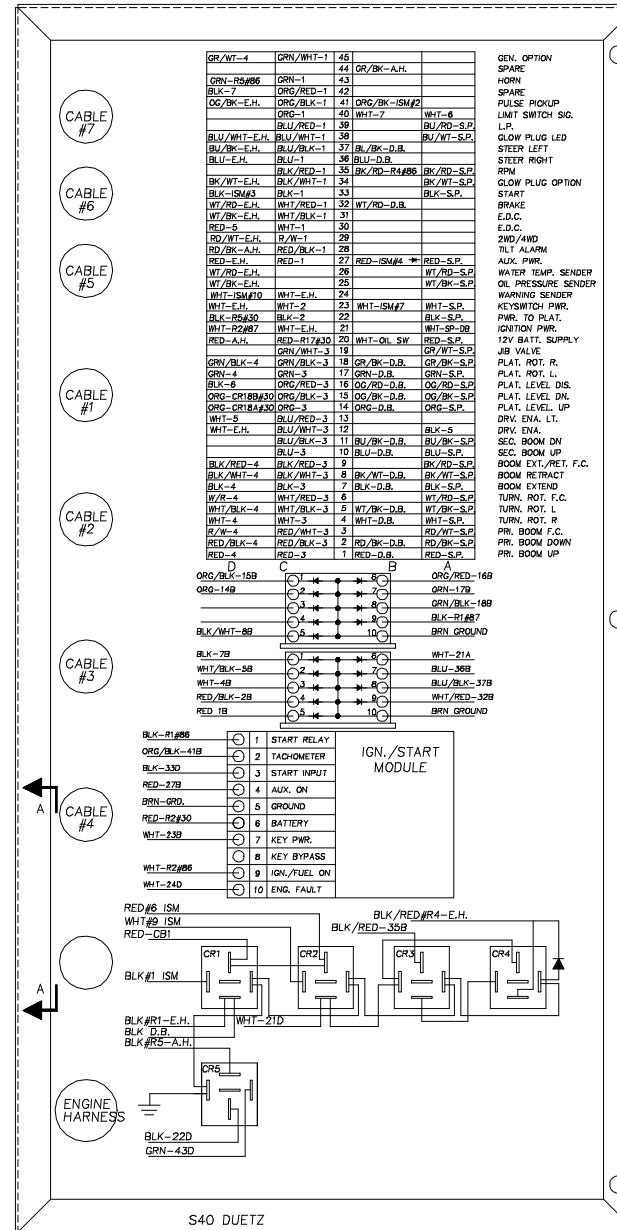
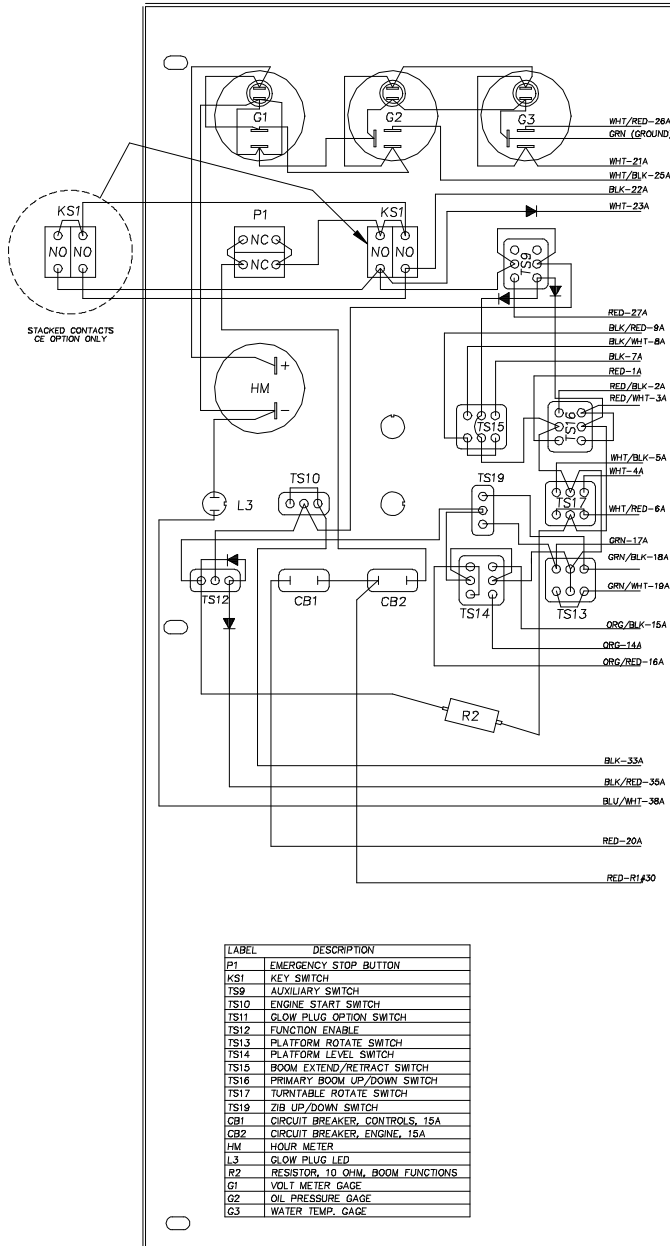
1. CIRCUIT CONNECTION TO TP24 IS FOR UNITS WITHOUT GENERATOR OPTION.
2. THE FOOTSWITCH POWER IS CONNECTED TO BOTH WHT WIRES WITHOUT THE LIFT/DRIVE SELECTOR OPTION.
3. ALL SWITCHES AND CONTACTS ARE SHOWN WITH THE BOOM IN THE STOWED POSITION AND THE KEYSWITCH OFF.

# **S40/45 Deutz Index**

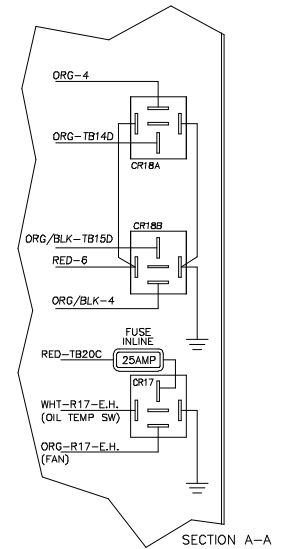
## **S40/45 PERKINS** **ELECTRICAL SCHEMATIC (cont'd)**



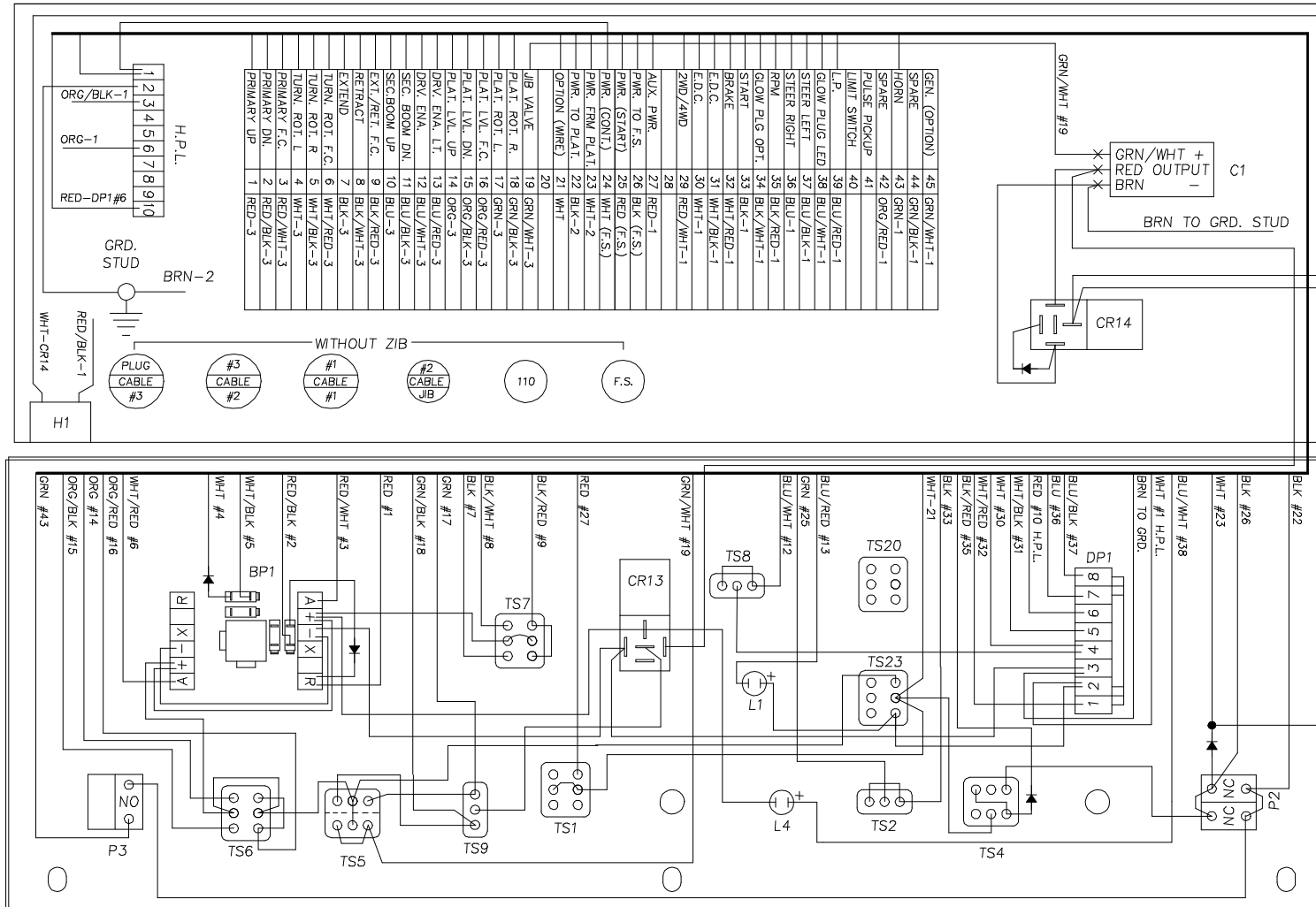
## S40/45 Deutz Index



### PLATFORM LEVEL DISABLE & HYD. OIL COOLER OPTION RELAYS



| LABEL         | DESCRIPTION                       |
|---------------|-----------------------------------|
| CR1           | IGN/START RELAY                   |
| CR2           | ING./POWER RELAY                  |
| CR3           | HIGH IDLE (RPM) CUTOFF RELAY      |
| CR4           | RPM RELAY                         |
| CR5           | SERVICE HORN RELAY                |
| CR17          | HYD. OIL COOLER OPTION RELAY      |
| CR18A/6B      | CE PLATFORM LEVEL RELAY           |
| LS1 (CABLE#7) | BOOM EXTEND LIMIT SWITCH          |
| LS2 (CABLE#6) | BOOM UP LIMIT SWITCH              |
| LS3 (CABLE#5) | DRIVE ENABLE LIMIT SWITCH         |
| (CABLE#1)     | TO PLATFORM C-BOX, TERMINAL 27-45 |
| (CABLE#2)     | TO PLATFORM C-BOX, TERMINAL 22-23 |
| (CABLE#3)     | TO PLATFORM C-BOX, TERMINAL 1-19  |
| (CABLE#4)     | TO CONTROL SOLENOID               |
| PR1           | AUXILIARY POWER RELAY             |
| PR2           | GLOW PLUG POWER RELAY             |



S40/45 PERKINS PLATFORM CONTROL BOX - SEE S40/45 FORD WIRING DIAGRAM FOR GENERATOR OPTION

| LABEL   | DESCRIPTION                                                 |
|---------|-------------------------------------------------------------|
| P2      | EMERGENCY STOP BUTTON                                       |
| P3      | HORN SWITCH                                                 |
| TS1     | AUXILIARY SWITCH                                            |
| TS2     | START ENGINE SWITCH                                         |
| TS3     | GLOW PLUG OPTION                                            |
| TS4     | HIGH R.P.M. SWITCH                                          |
| TS5     | PLATFORM ROTATE SWITCH (S45 SHOWN)                          |
| TS6     | PLATFORM LEVEL SWITCH                                       |
| TS7     | PRIMARY BOOM EXTEND/RETRACT SWITCH                          |
| TS8     | DRIVE ENABLE SWITCH                                         |
| TS9     | JIB BOOM SWITCH (S45 ONLY)                                  |
| TS20    | GENERATOR SWITCH (OPTION)                                   |
| TS23    | LIFT/DRIVE SELECT SWITCH (OPTION)                           |
| CR13    | JIB LOCKOUT RELAY                                           |
| CR14    | PLATFORM ROTATOR RELAY                                      |
| C1      | DELAY CAPACITOR                                             |
| H1      | TIPT ALARM                                                  |
| L1      | DRIVE ENABLE LED                                            |
| L4      | GLOW PLUG LED                                               |
| DP1     | BOOM PROPORTIONAL JOYSTICK STEER LEFT / RIGHT               |
| BP1     | BOOM PROPORTIONAL JOYSTICK PRIMARY UP/DN, TURN TABLE ROTATE |
| H.P.L.  | HORSEPOWER LIMITER BOARD                                    |
| CABLE#2 | FROM GROUND C-BOX, TERMINAL 27-45                           |
| CABLE#3 | FROM GROUND C-BOX, TERMINAL 22-23                           |
| CABLE#4 | FROM GROUND C-BOX, TERMINAL 1-18                            |
| JIB     | CABLE FOR JIB FUNCTION                                      |
| F.S.    | AC POWER CABLE FROM GROUND CONTROL BOX                      |