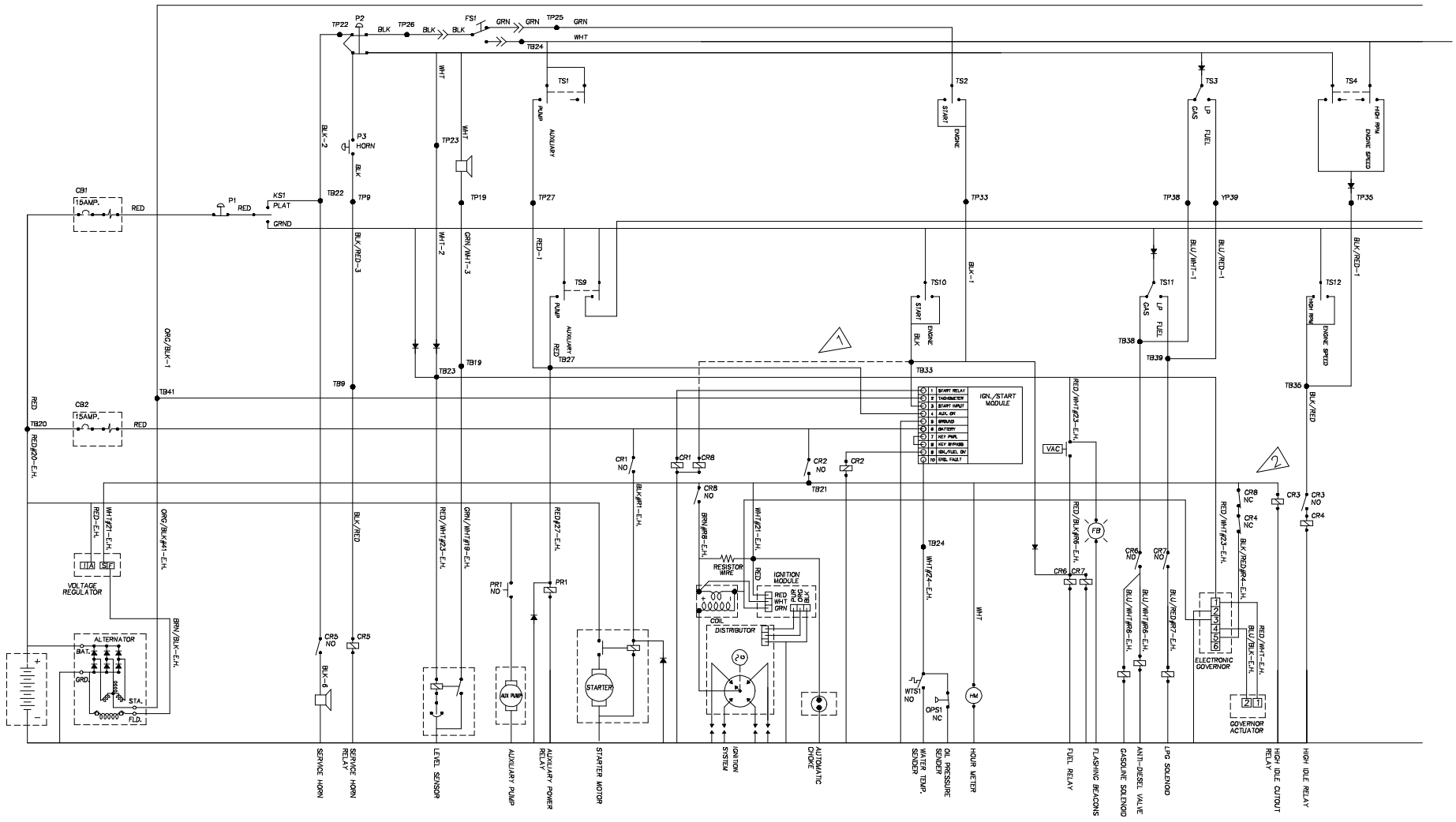


# S1 S40/45 Ford 2WD & 4WD

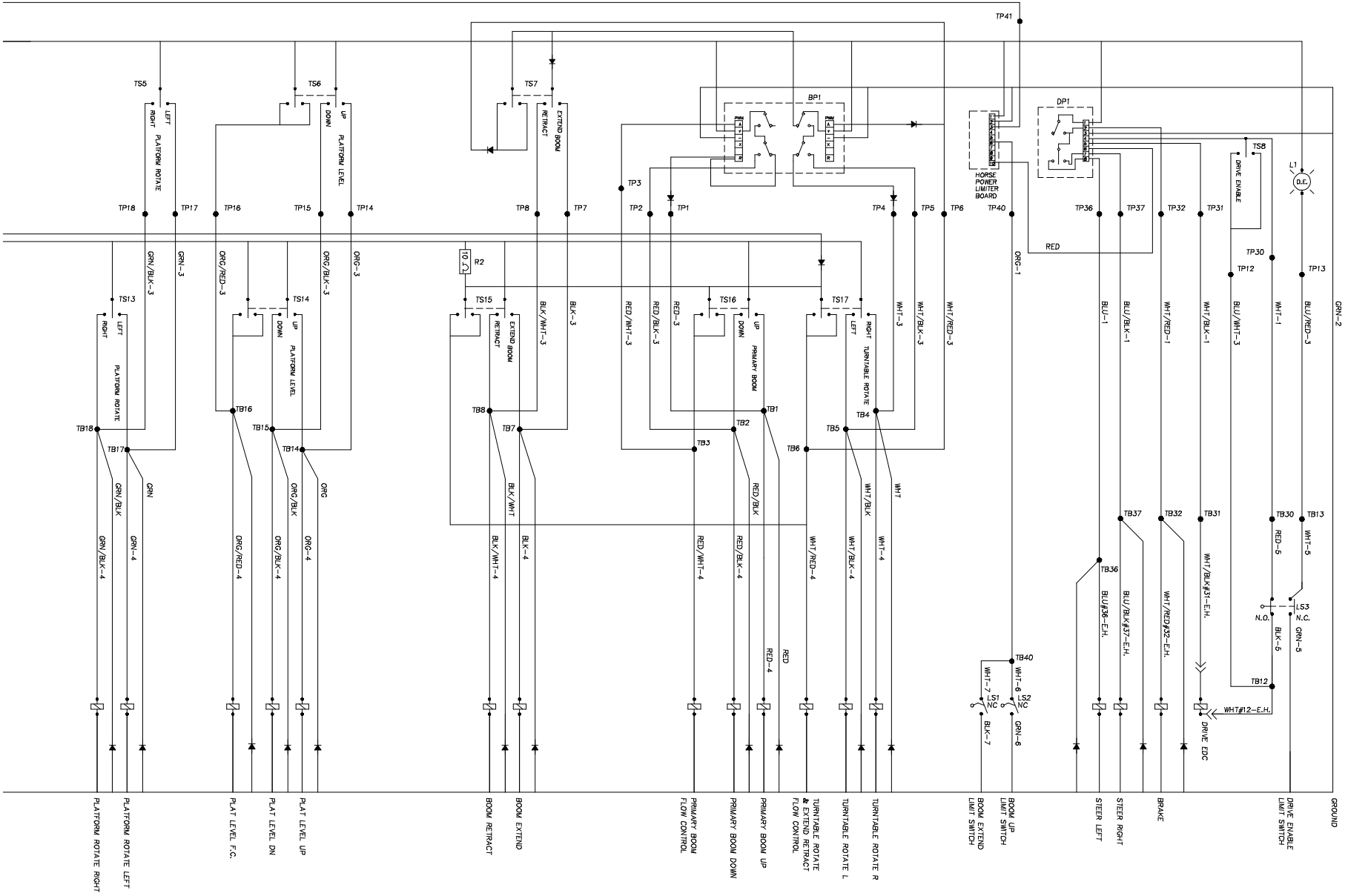
| Page:  | Model:   | Serial Number: |
|--------|--|----------------|
| S1-01A | S40 – Ford LSG 423 Electrical Schematic.....                                 | 101 to 271     |
| S1-01B | S40 – Ford LSG 423 Electrical Schematic (cont'd)                             | " " " "        |
| S1-02  | S40 – Ford LSG 423 Relay Panel Legend  | " " " "        |
| S1-03  | S40 – Ford LSG 423 Ground Control Box Legend                                 | " " " "        |
| S1-04  | S40 – Ford LSG 423 Platform Control Box Legend                               | " " " "        |
| S1-05A | S40 – Ford LRG 423 Electrical Schematic.....                                 | 272 to 830     |
| S1-05B | S40 – Ford LRG 423 Electrical Schematic (cont'd)                             | " " " "        |
| S1-06  | S40 – Ford LRG 423 Relay Panel Legend  | " " " "        |
| S1-07  | S40 – Ford LRG 423 Ground Control Box Legend                                 | " " " "        |
| S1-08  | S40 – Ford LRG 423 Platform Control Box Legend                               | " " " "        |
| S1-09A | S40 – Ford LRG 423 Electrical Schematic with Function Enable.....            | 832 to 1423    |
| S1-09B | S40 – Ford LRG 423 Electrical Schematic with Function Enable (cont'd)        | " " " "        |
| S1-10  | S40 – Ford LRG 423 Ground Control Box Legend with Function Enable            | " " " "        |
| S1-11  | S40 – Ford LRG 423 Platform Control Box Legend with Function Enable          | " " " "        |
| S1-12A | S40 – Ford LRG 423 Electrical Schematic with Simultaneous Functions.....     | 1425 to 1789   |
| S1-12B | S40 – Ford LRG 423 Electrical Schematic with Simultaneous Functions (cont'd) | " " " "        |
| S1-13  | S40 – Ford LRG 423 Ground Control Box Legend with Simultaneous Functions     | " " " "        |
| S1-14  | S40 – Ford LRG 423 Platform Control Box Legend with Simultaneous Functions   | " " " "        |
| S1-15A | S40/45 – Ford LRG 425 EFI Electrical Schematic.....                          | 1790 & above   |
| S1-15B | S40/45 – Ford LRG 425 EFI Electrical Schematic (cont'd)                      | " " " "        |
| S1-16  | S40/45 – Ford LRG 425 EFI Ground Control Box Legend                          | " " " "        |
| S1-17  | S40/45 – Ford LRG 425 EFI Platform Control Box Legend                        | " " " "        |
| S1-18  | S40/45 – Ford LRG 425 EFI Engine Harness                                     | " " " "        |

S40 2WD & 4WD FORD LSG 423  
ELECTRICAL SCHEMATIC  
SERIAL #101 TO 271

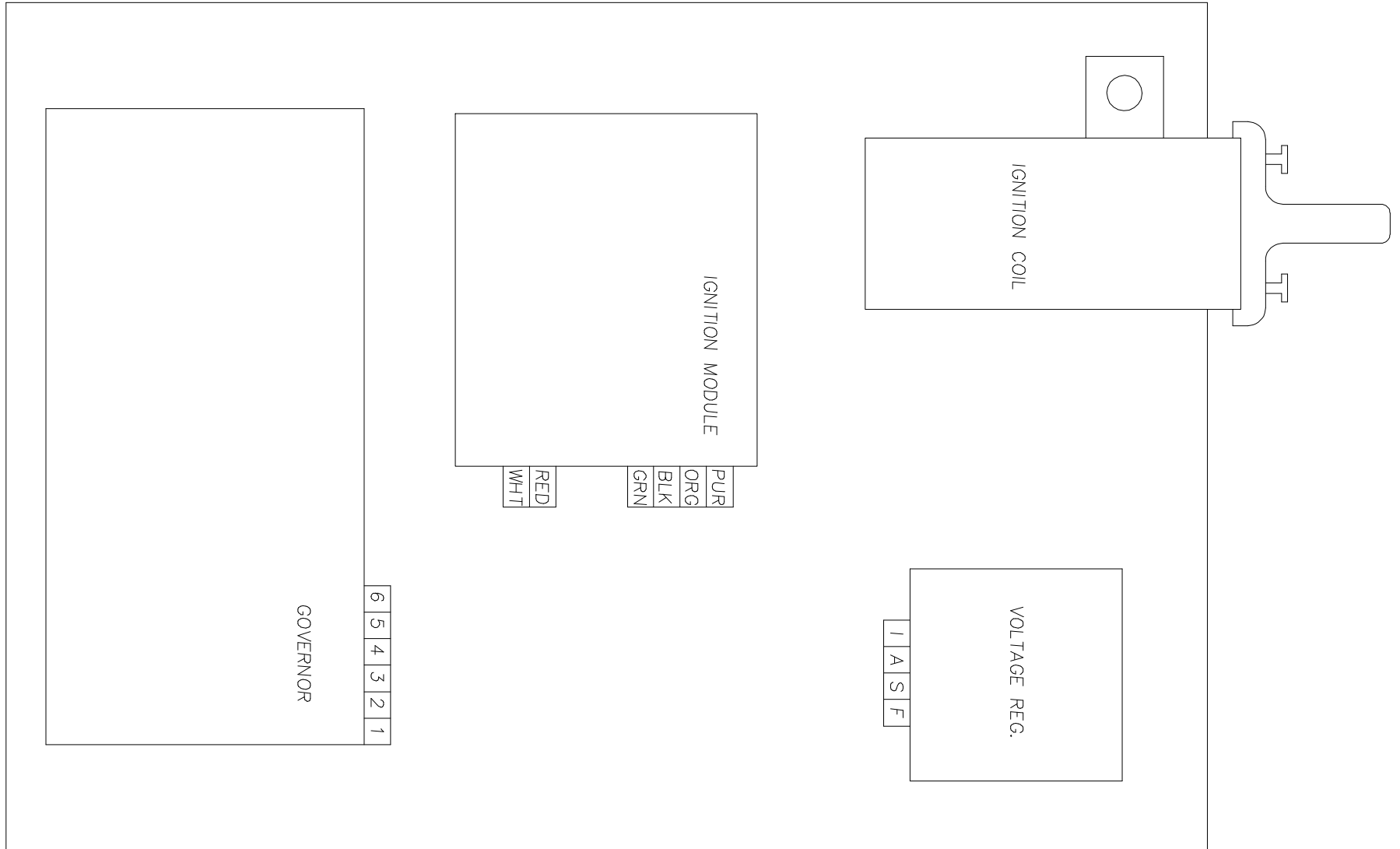
- NOTES:  
THE FOLLOWING WIRING CHANGES TAKE PLACE FROM S40-188 TO 271
- 1 CR8 RELAY RECEIVES POWER FROM TB33 INSTEAD OF IGN/START MODULE.
  - 2 THE N.C. SIDE OF CR8 RELAY IS WIRED IN SERIES WITH CR4 RELAY.



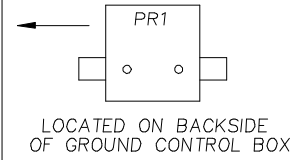
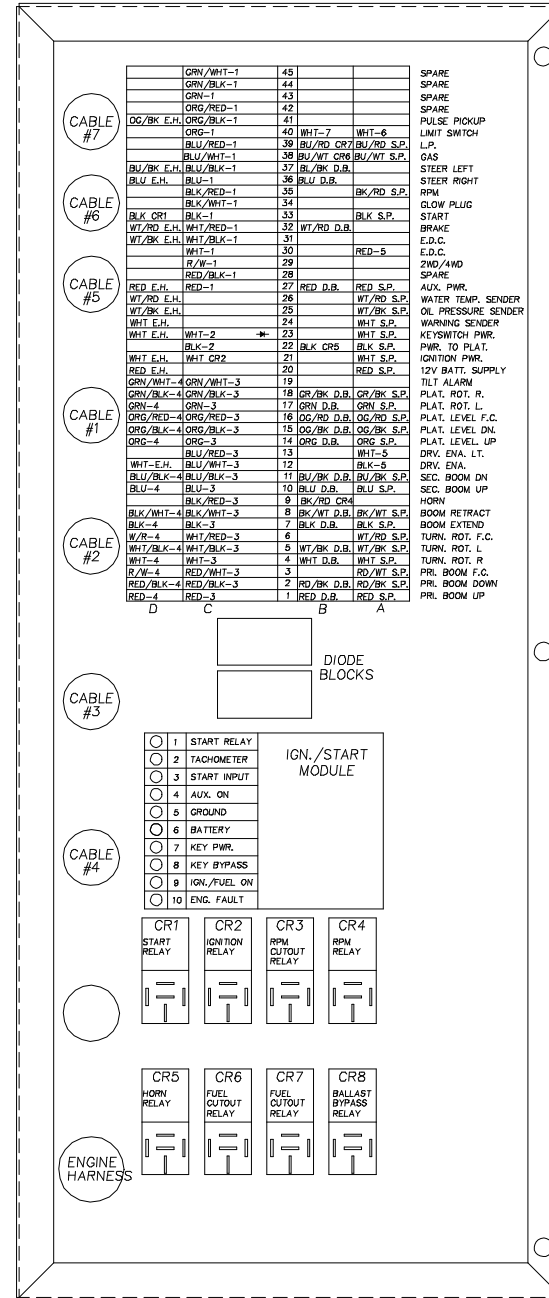
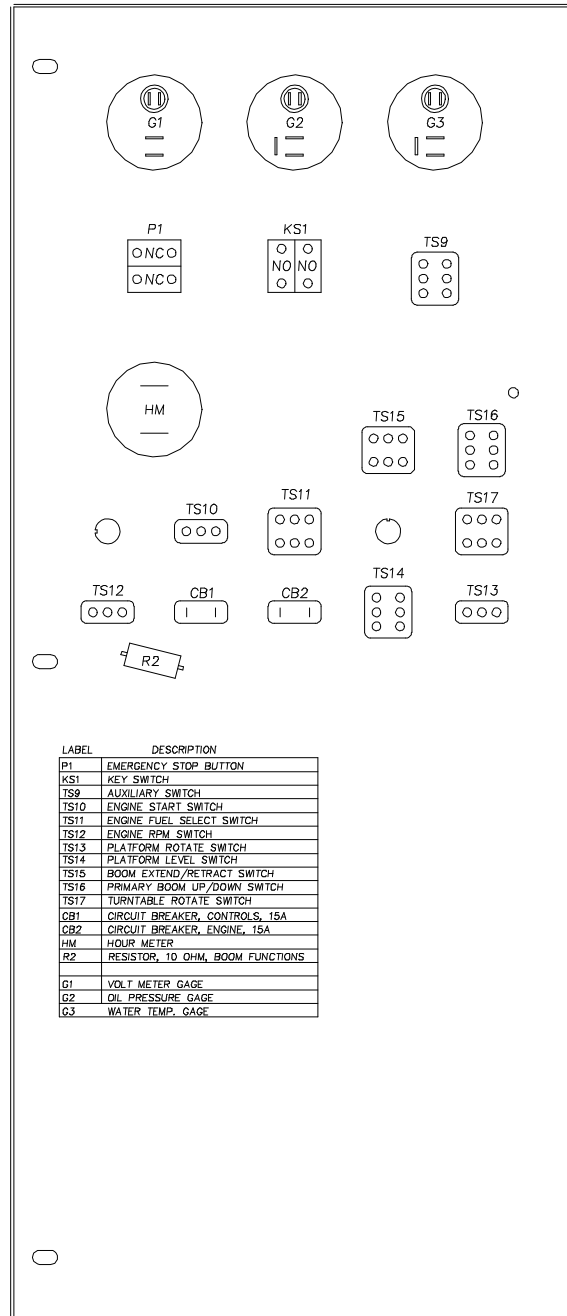
S40 2WD & 4WD FORD LSG423  
 ELECTRICAL SCHEMATIC (cont'd)  
 SERIAL #101 TO 271

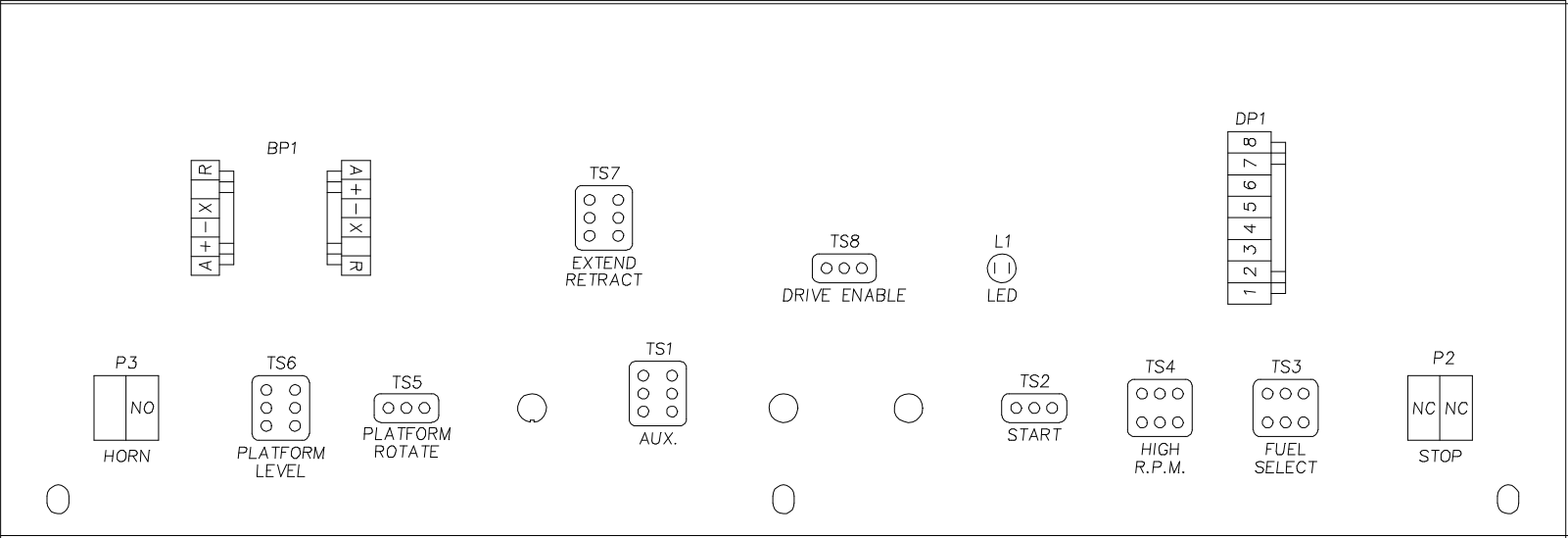
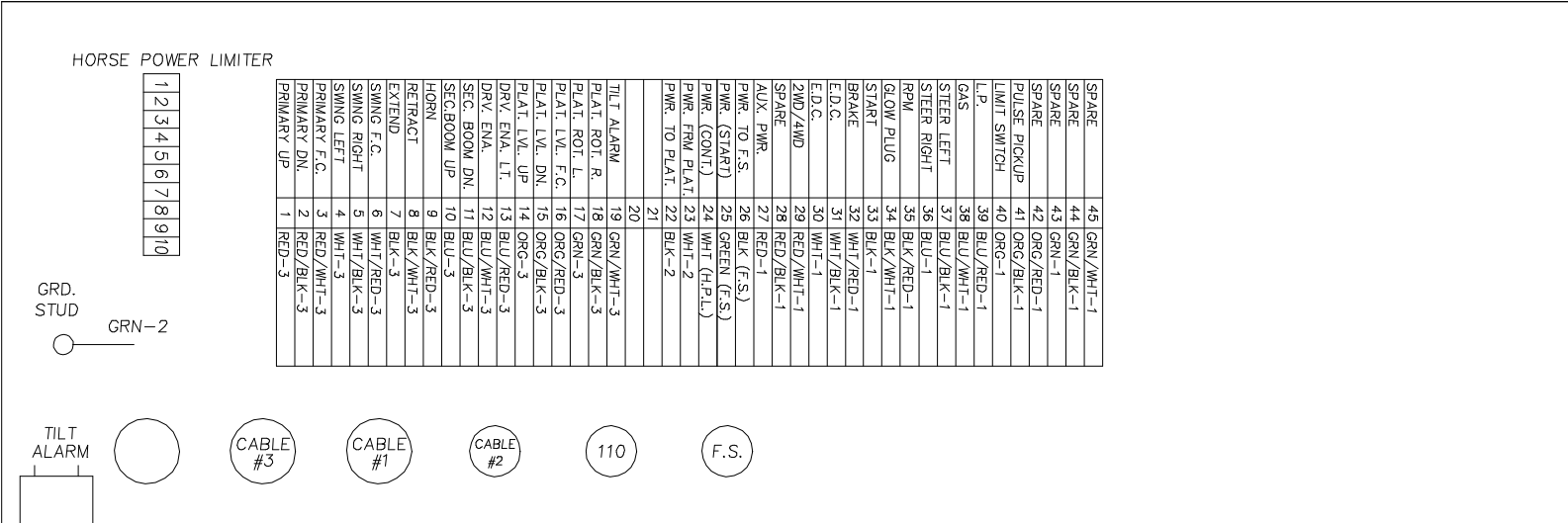


S40 2WD & 4WD FORD LSG 423  
RELAY PANEL LEGEND  
SERIAL# 101 TO 271



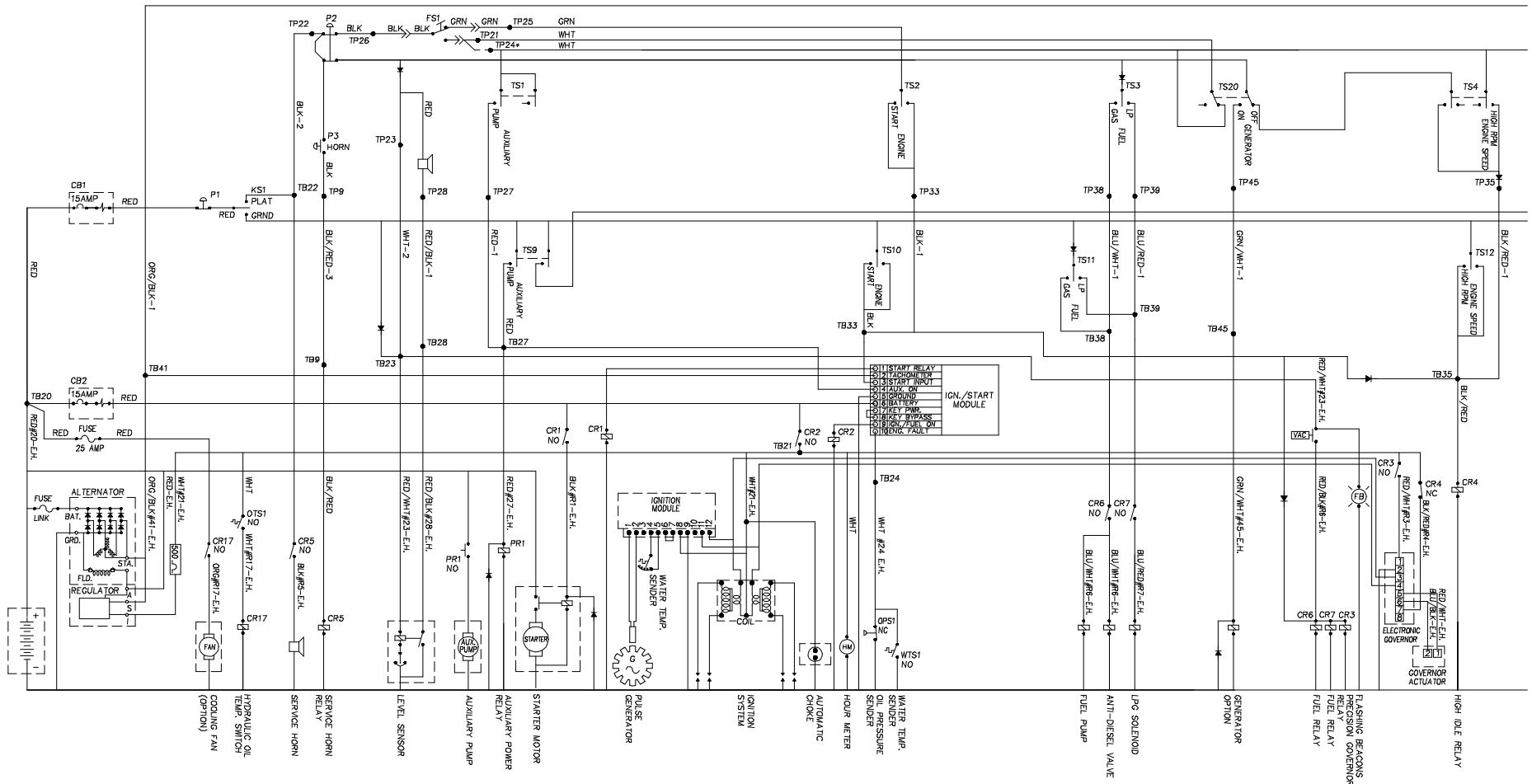
S40 2WD & 4WD FORD LSG 423  
GROUND CONTROL BOX LEGEND  
SERIAL# 101 TO 271





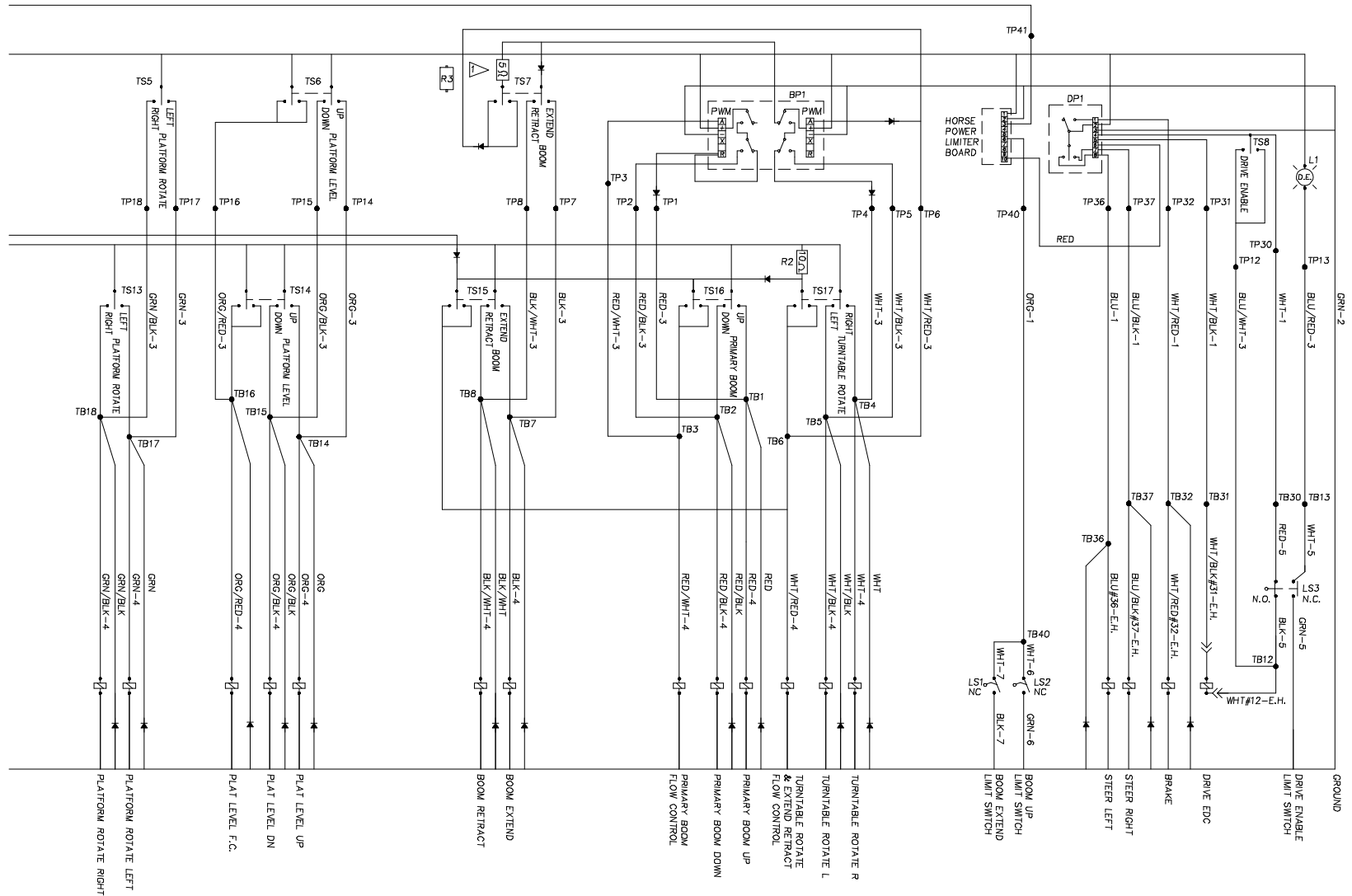
S40 2WD & 4WD FORD LRG 423  
ELECTRICAL SCHEMATIC  
SERIAL #272 TO 830

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

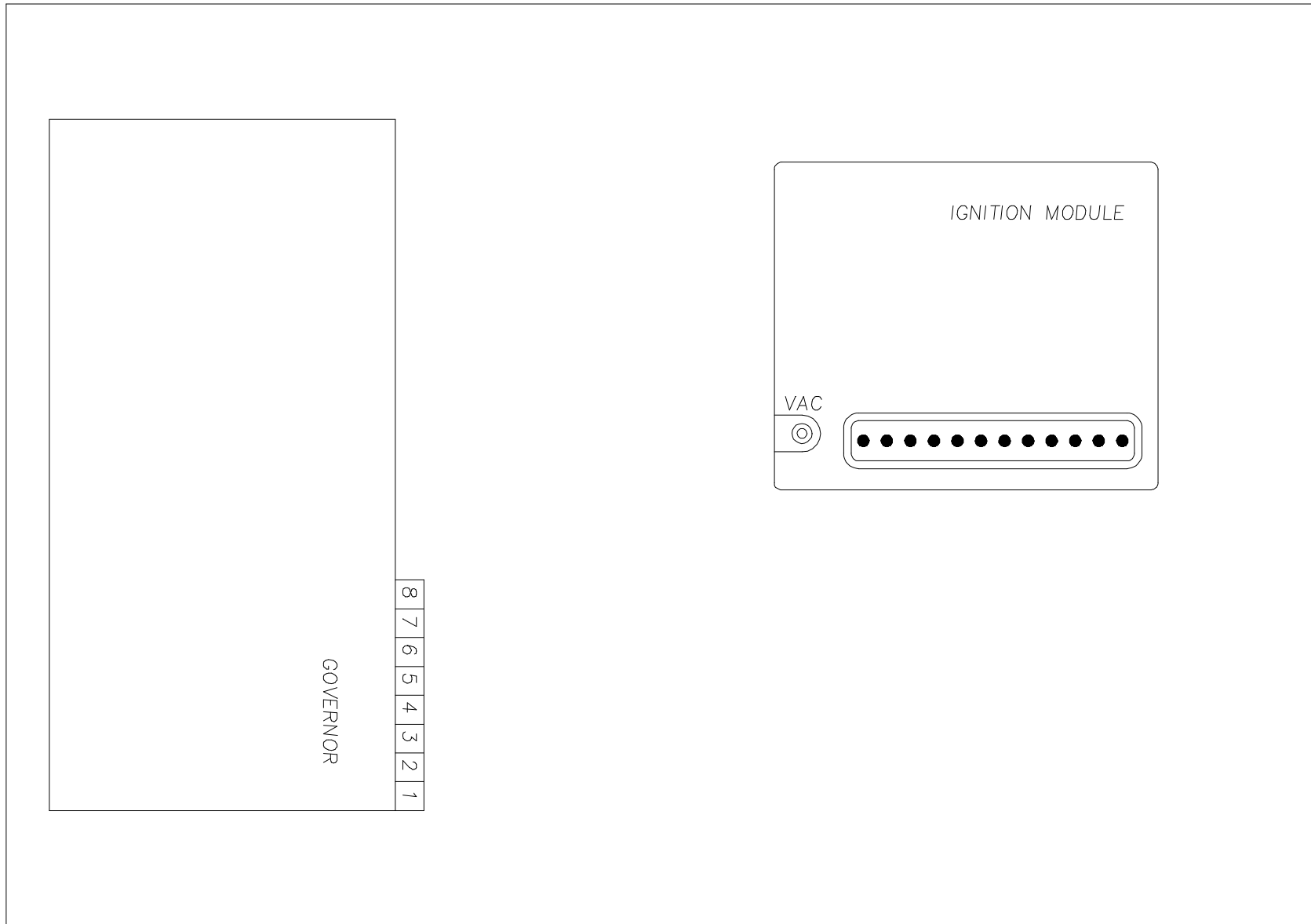


S40 2WD & 4WD FORD LRG 423  
 ELECTRICAL SCHEMATIC (cont'd)  
 SERIAL #272 TO 830

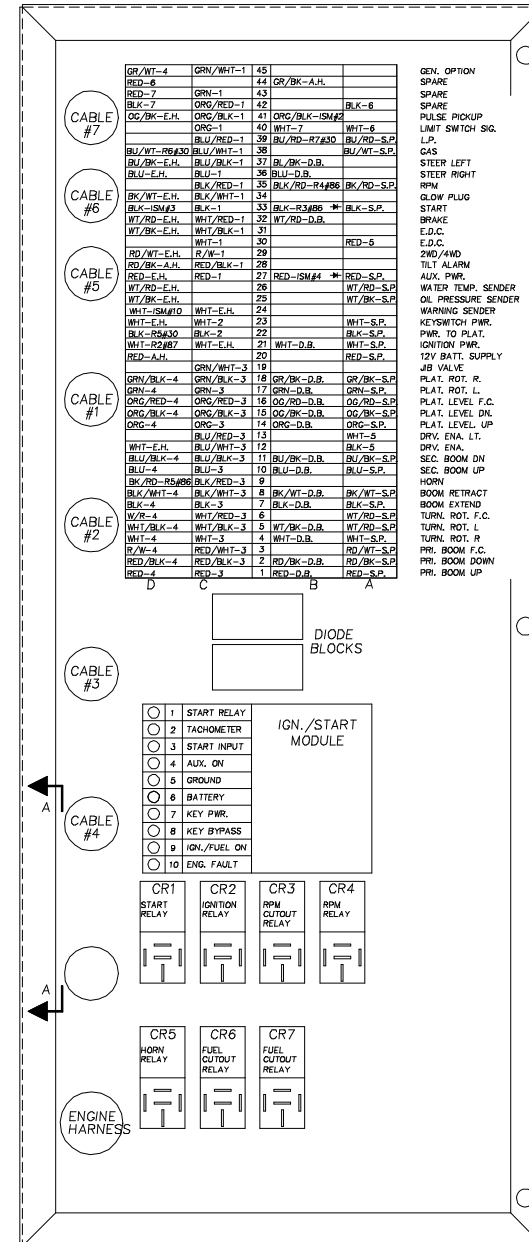
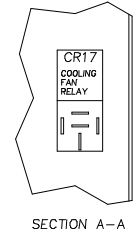
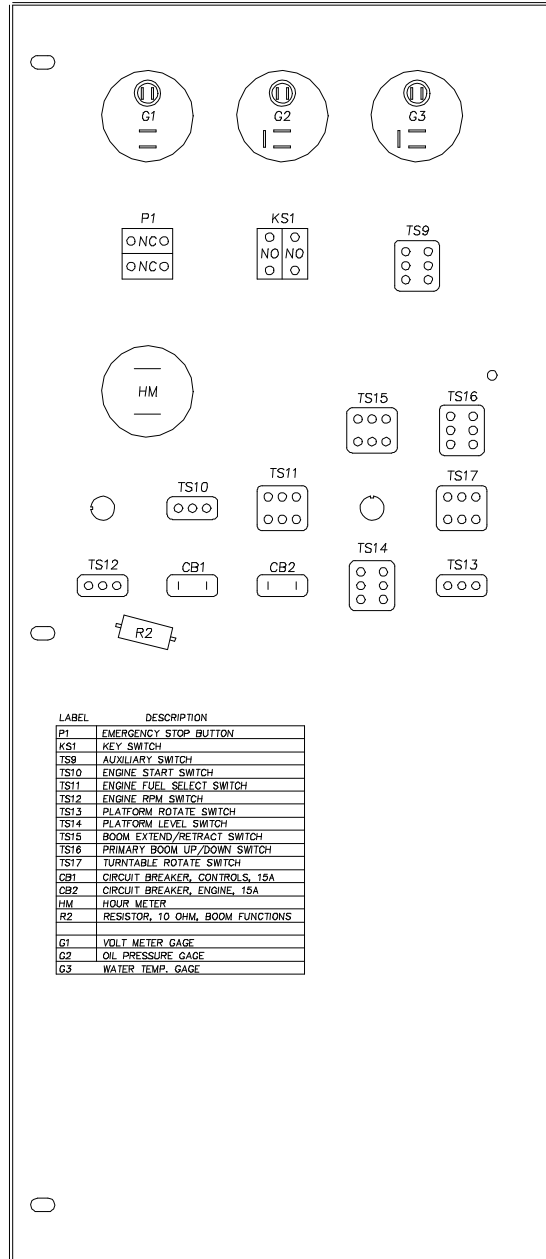
NOTE: 5 OHM RESISTOR INSTALLED ON TS7 FOR UNITS WITH REGEN.



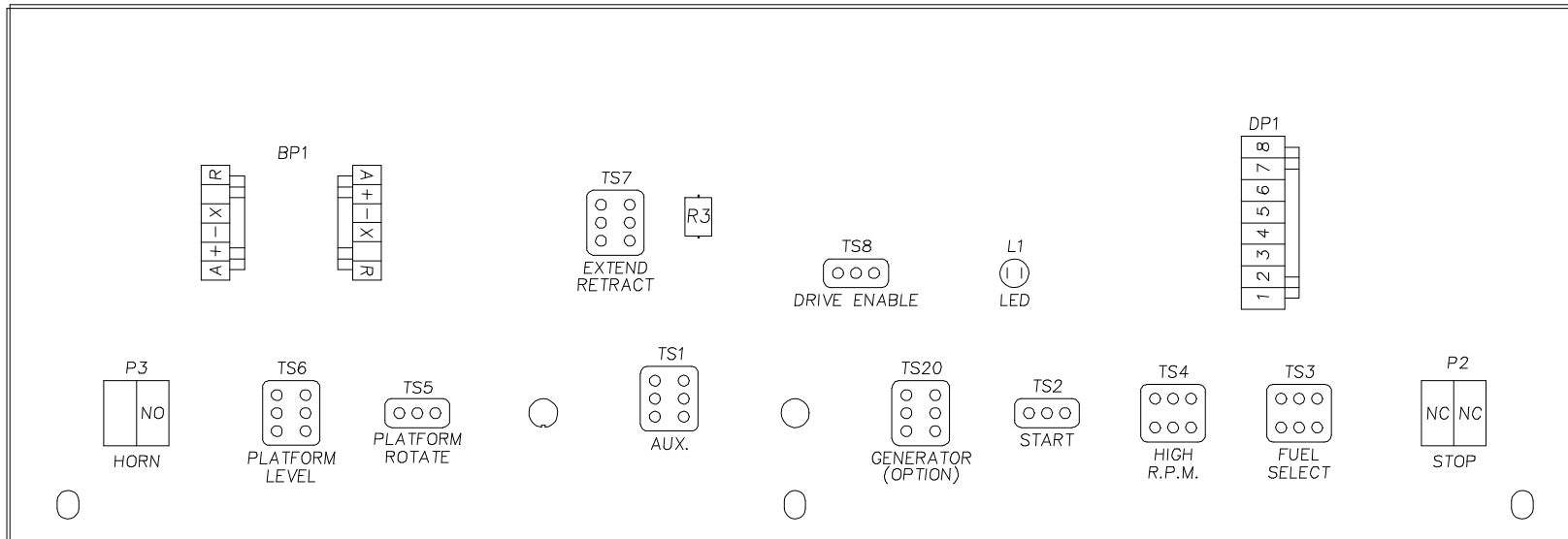
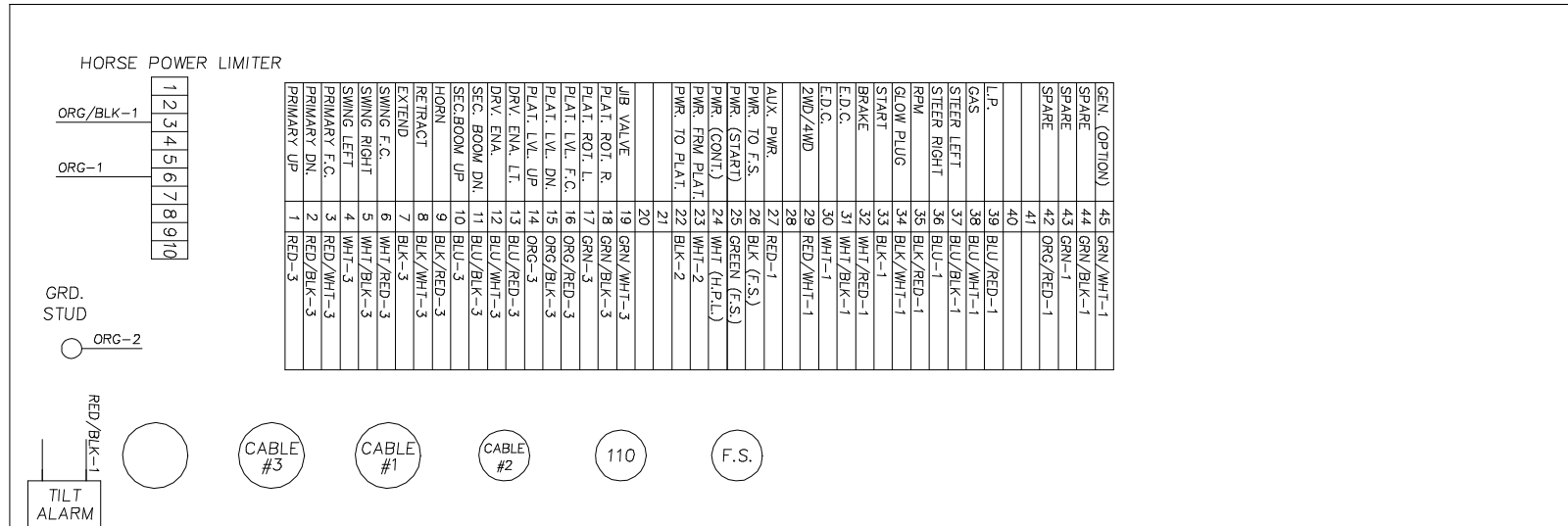




S40 2WD & 4WD FORD LRG 423  
GROUND CONTROL BOX LEGEND  
SERIAL # 272 TO 830



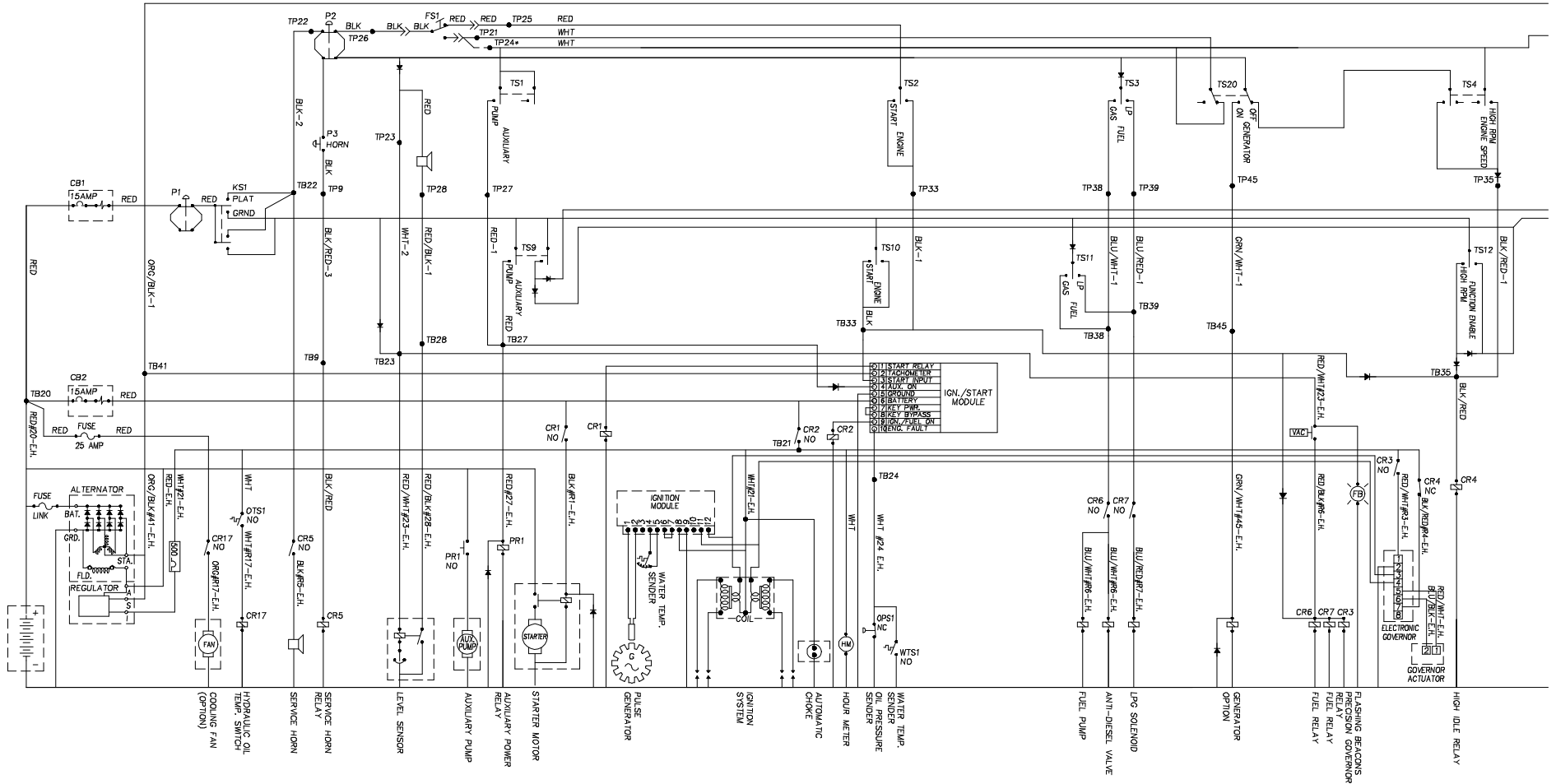
S40 2WD & 4WD FORD LRG 423  
 PLATFORM CONTROL BOX LEGEND  
 SERIAL # 272 TO 830



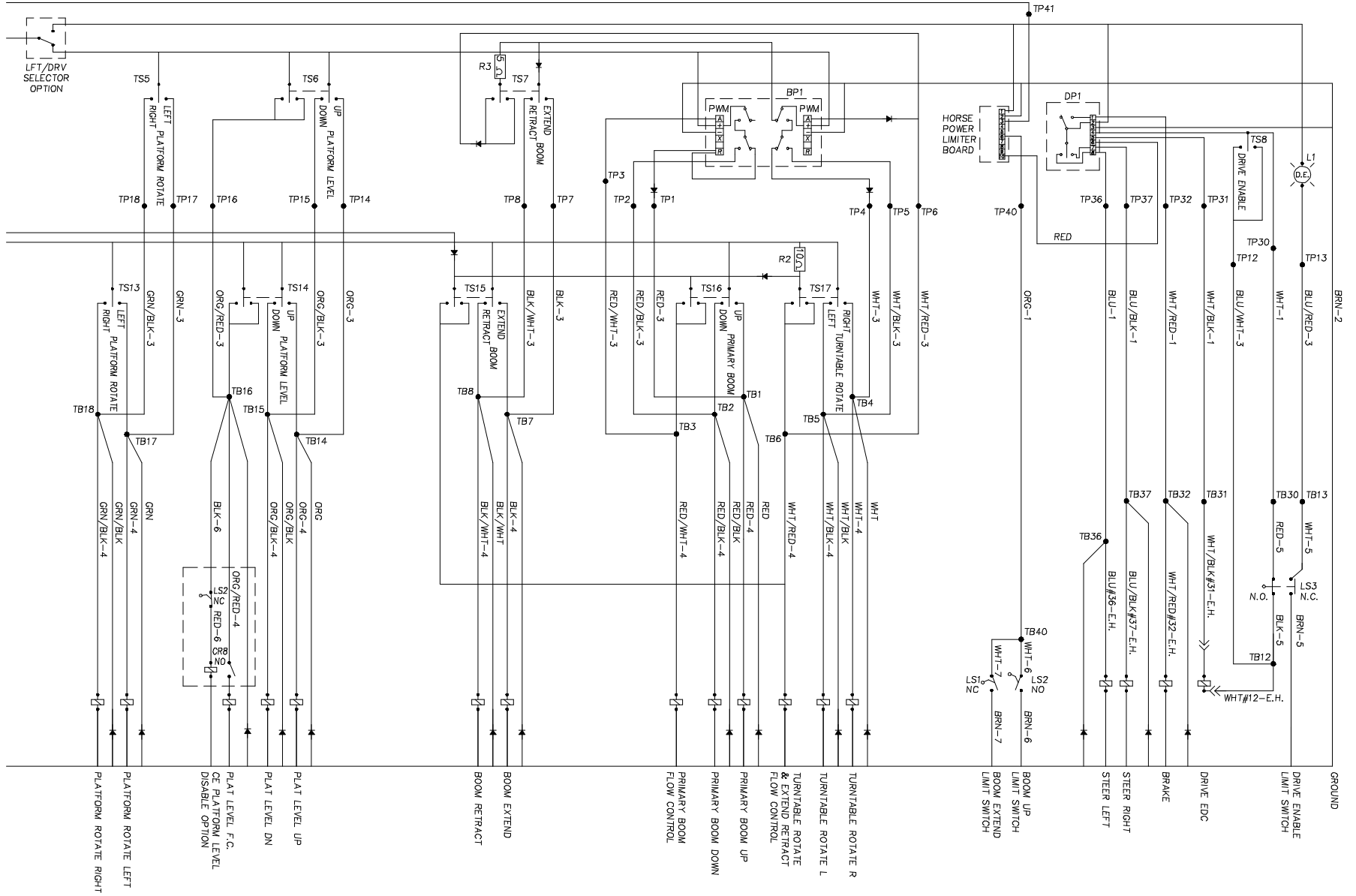
# S40 2WD & 4WD FORD LRG 423

## ELECTRICAL SCHEMATIC WITH FUNCTION ENABLE SERIAL # 832 TO 1423

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



S40 2WD & 4WD LRG 423  
 ELECTRICAL SCHEMATIC  
 WITH FUNCTION ENABLE (cont'd)  
 SERIAL # 832 TO 1423

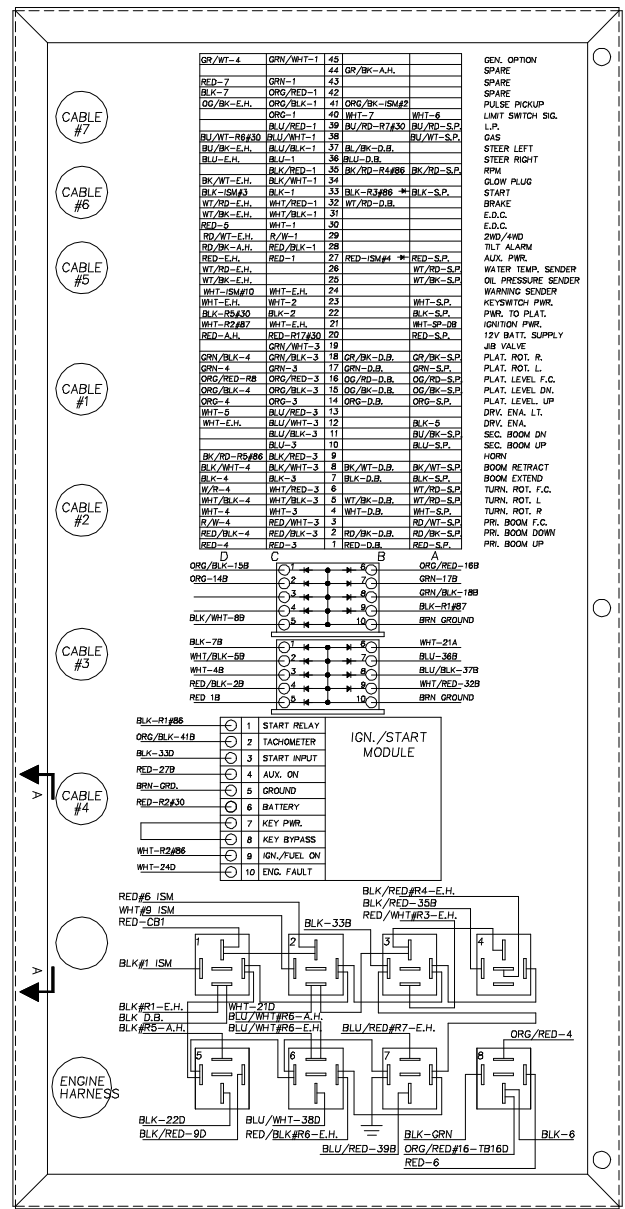
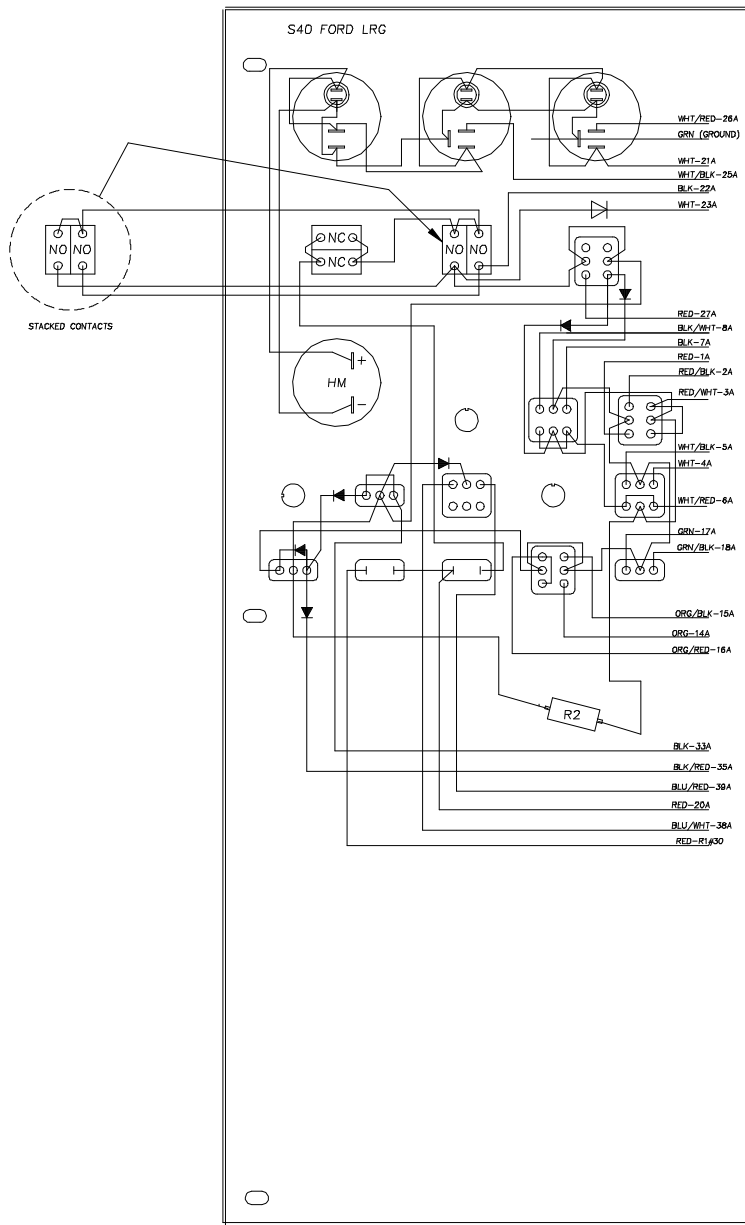


# S40 2WD & 4WD FORD LRG 423

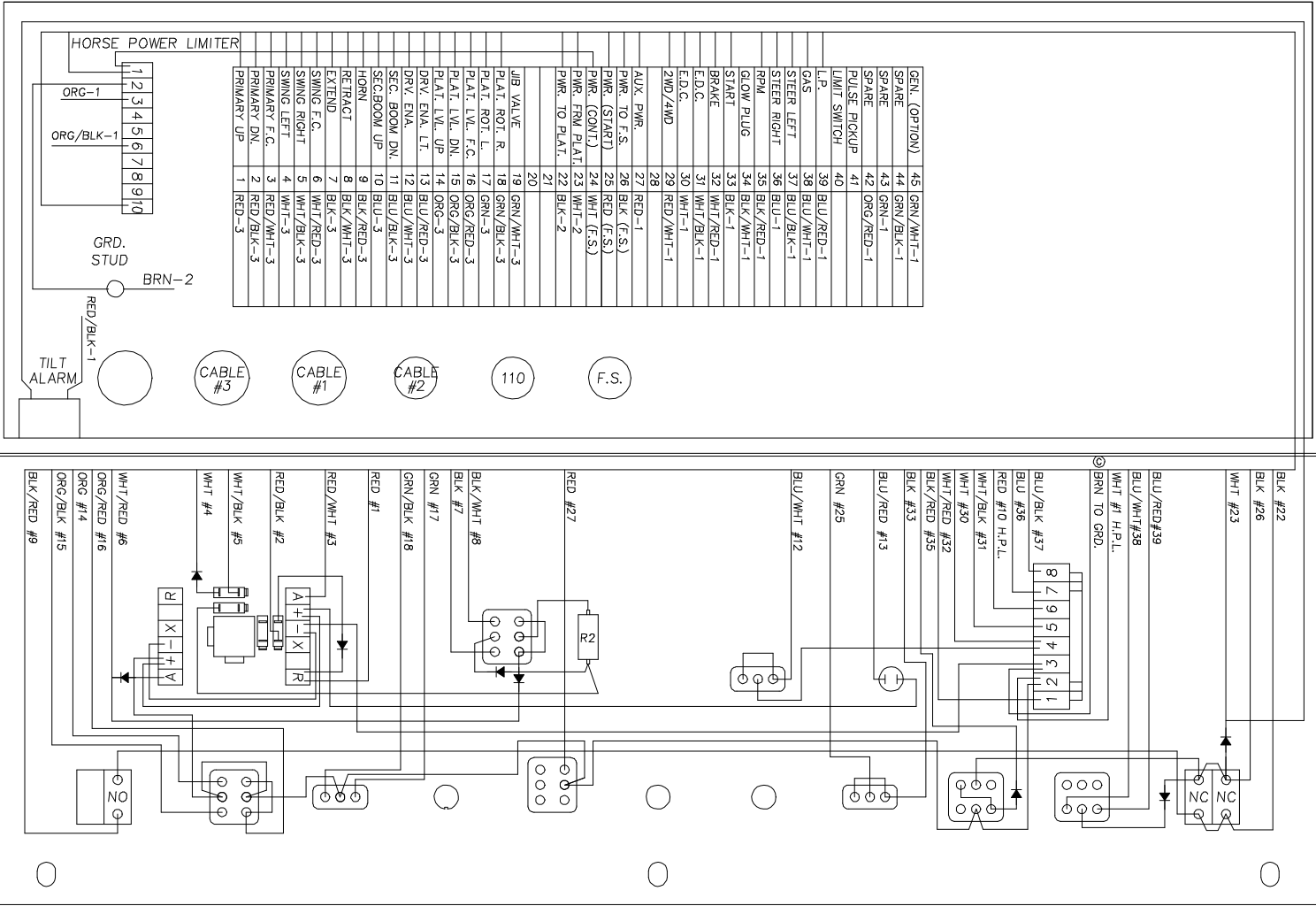
## GROUND CONTROL BOX LEGEND

### WITH FUNCTION ENABLE

### SERIAL # 832 TO 1423

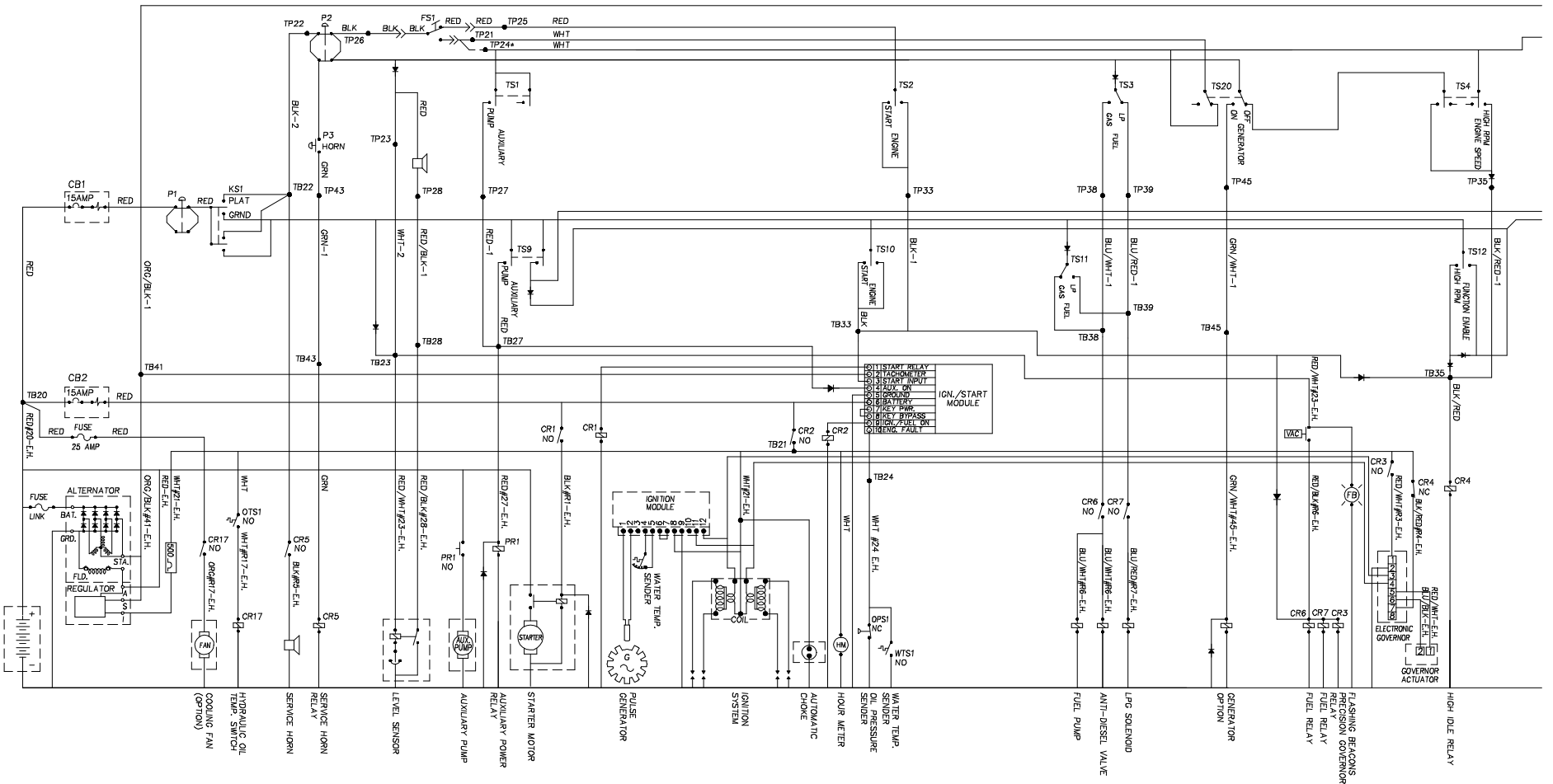


S40 2WD & 4WD FORD LRG 423  
 PLATFROM CONTROL BOX LEGEND  
 WITH FUNCTION ENABLE  
 SERIAL #832 TO 1423



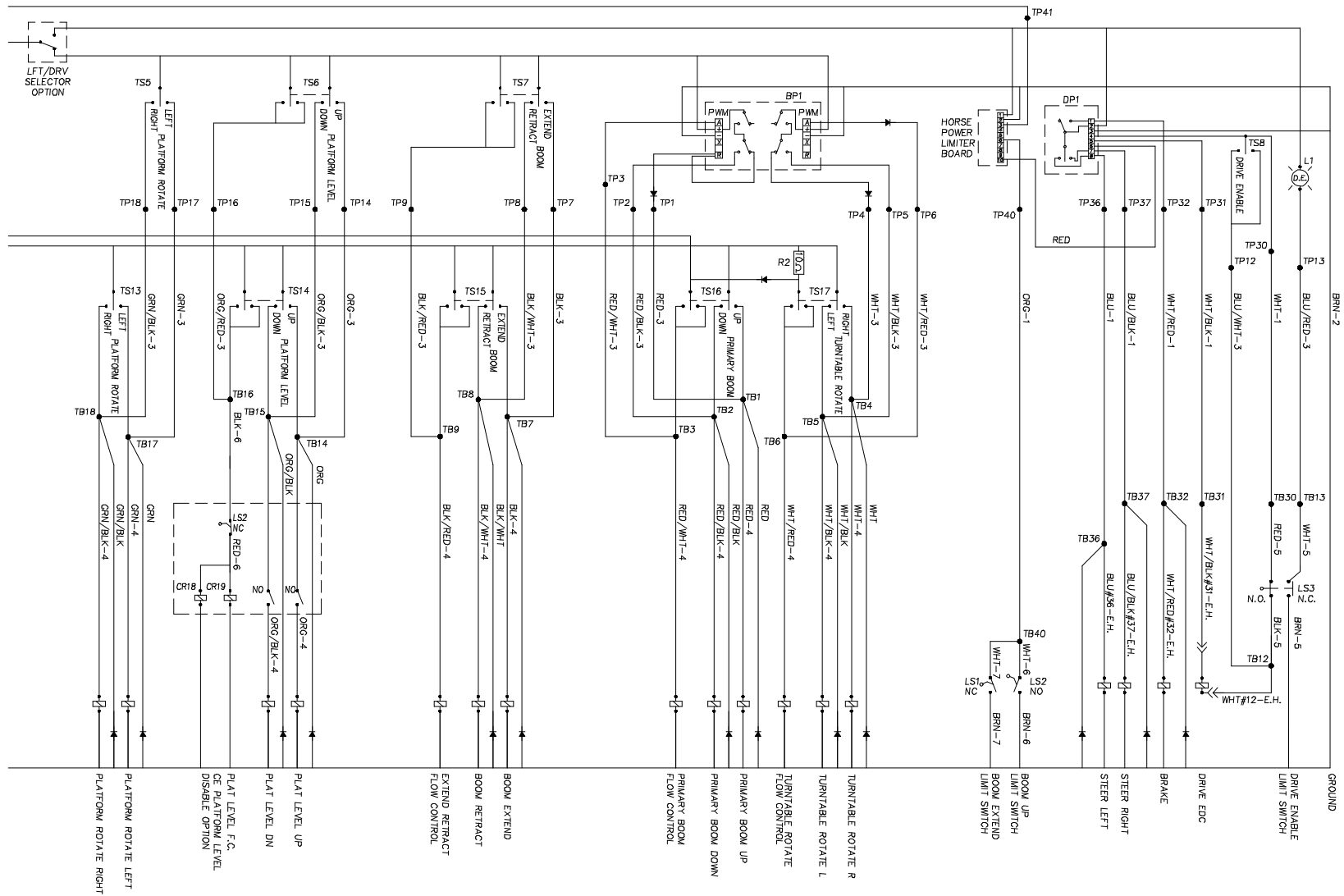
S40 2WD & 4WD FORD LRG 423  
 ELECTRICAL SCHEMATIC  
 WITH SIMULTANEOUS FUNCTIONS  
 SERIAL #1425 TO 1789

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

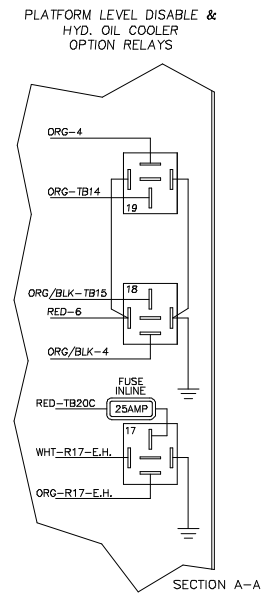
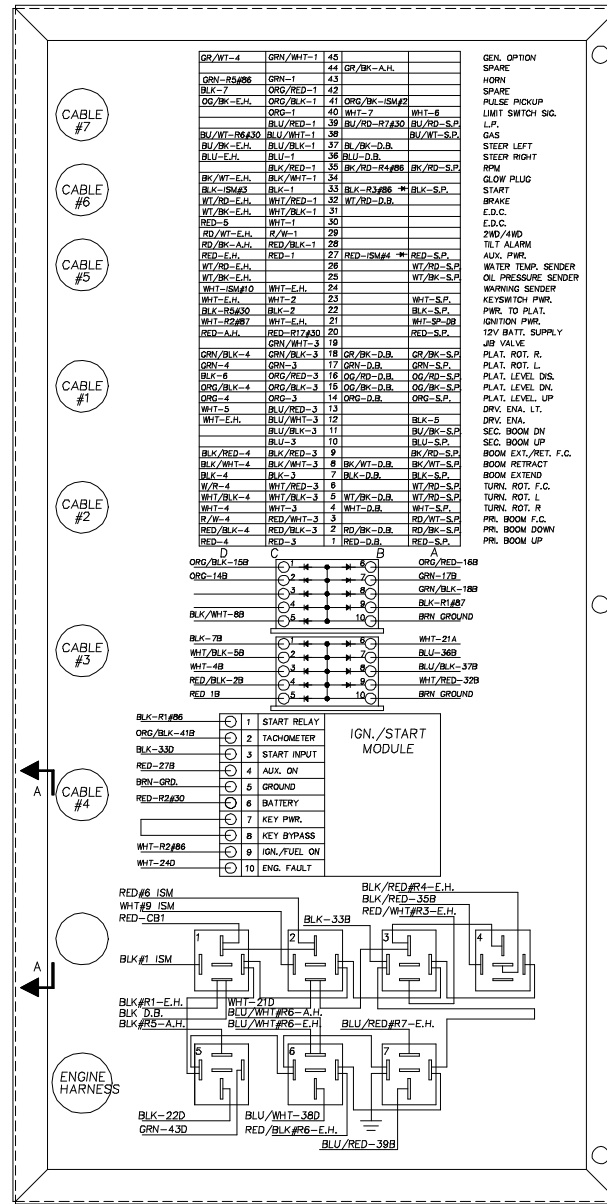
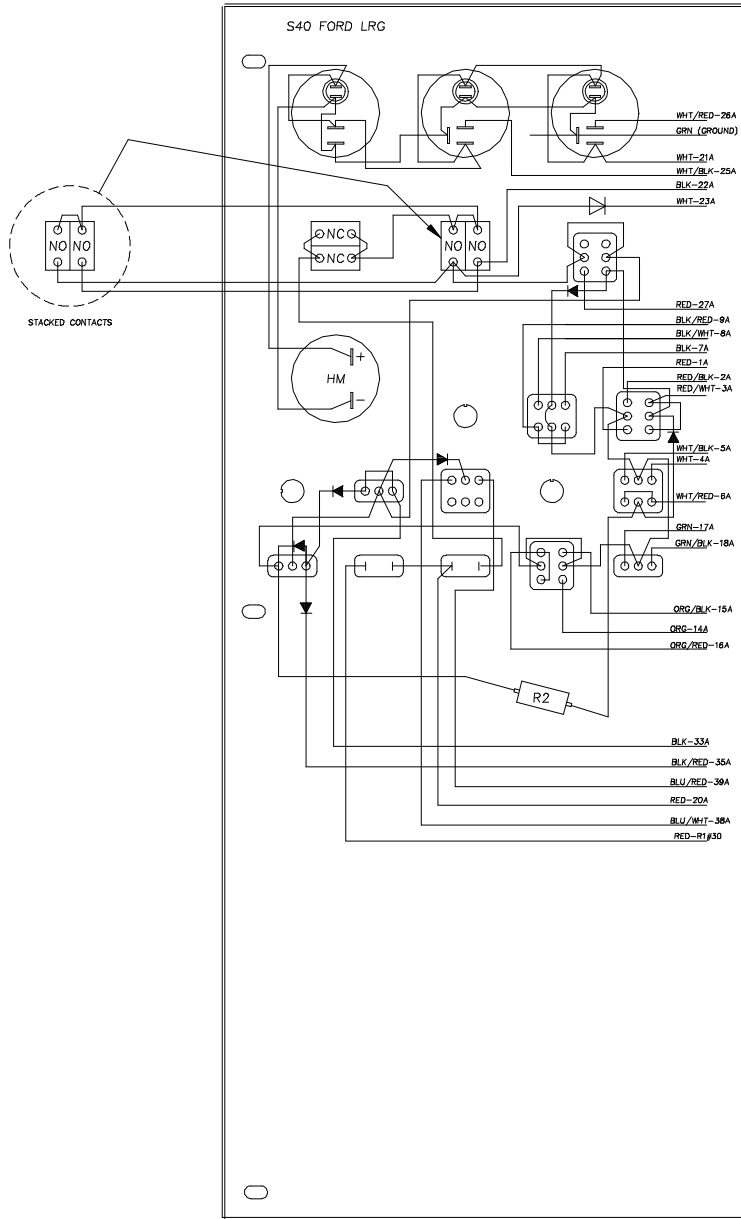




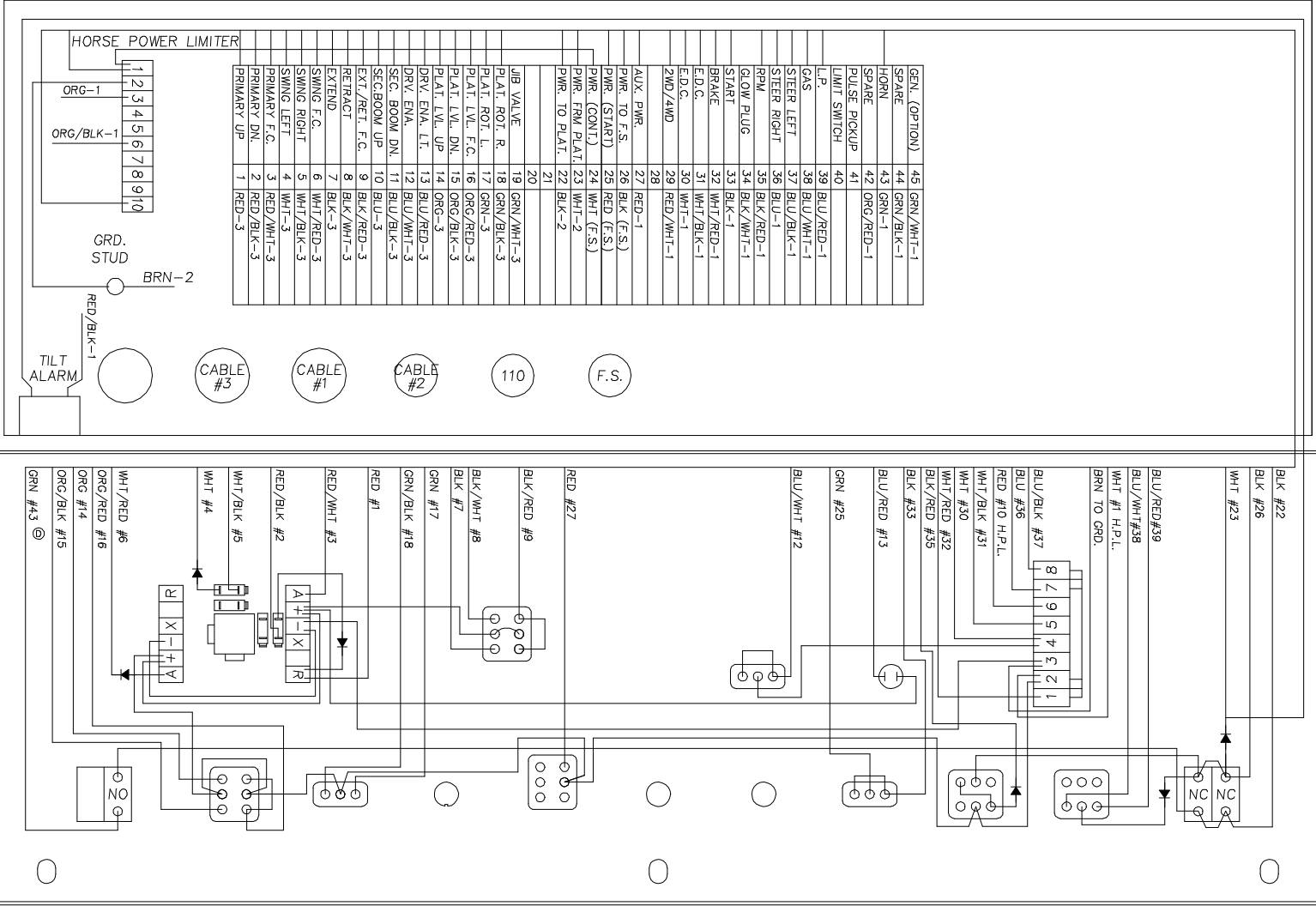
S40 2WD & 4WD FORD LRG 423  
 ELECTRICAL SCHEMATIC  
 WITH SIMULTANEOUS FUNCTIONS (cont'd)  
 SERIAL #1425 TO 1789



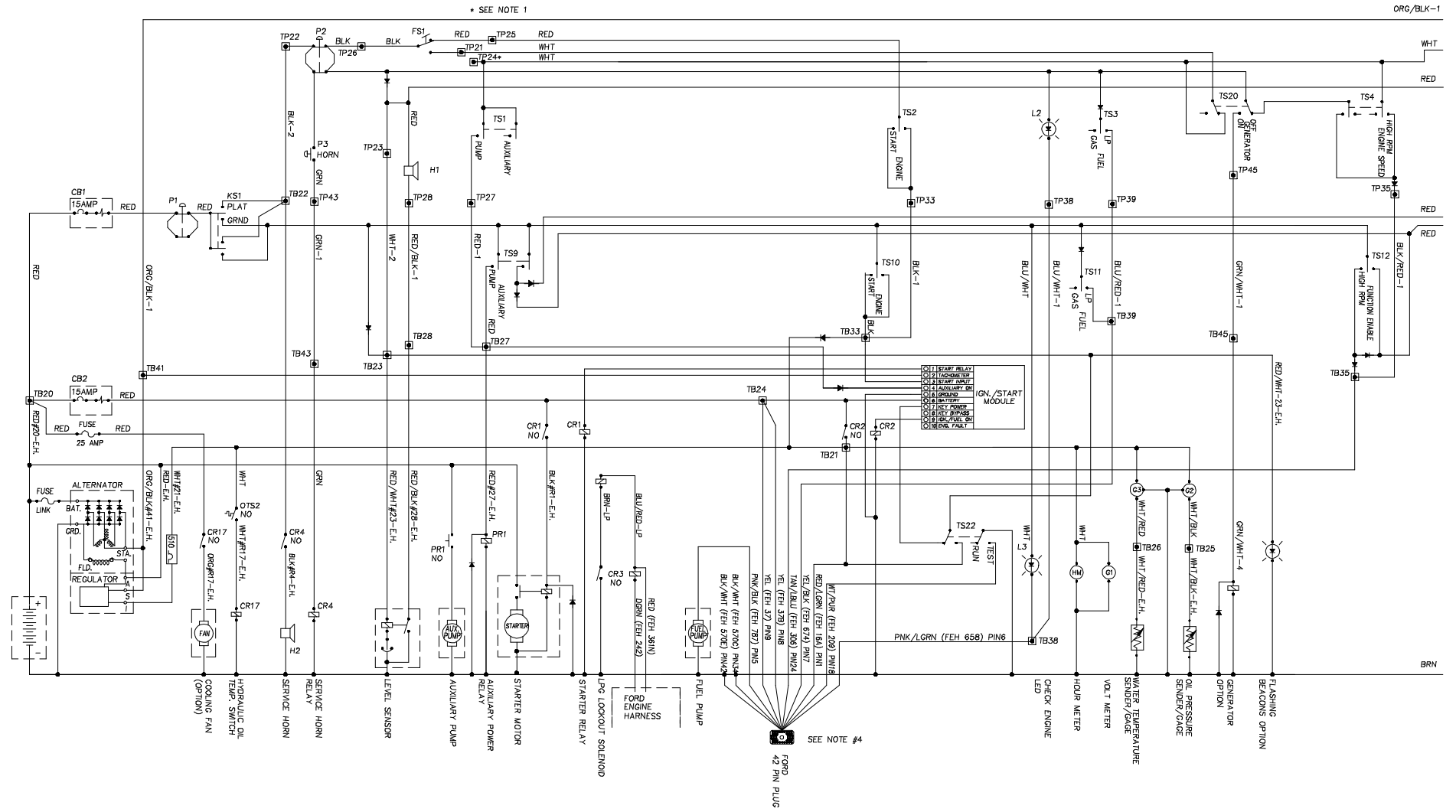
S40 2WD & 4WD FORD LRG 423  
 GROUND CONTROL BOX LEGEND  
 WITH SIMULTANEOUS FUNCTIONS  
 SERIAL #1425 TO 1789



S40 2WD & 4WD FORD LRG 423  
 PLATFORM CONTROL BOX LEGEND  
 WITH SIMULTANEOUS FUNCTIONS  
 SERIAL #1425 TO 1789



S40/45 2WD & 4WD FORD LRG 423 EFI  
ELECTRICAL SCHEMATIC  
SERIAL #1790 & ABOVE

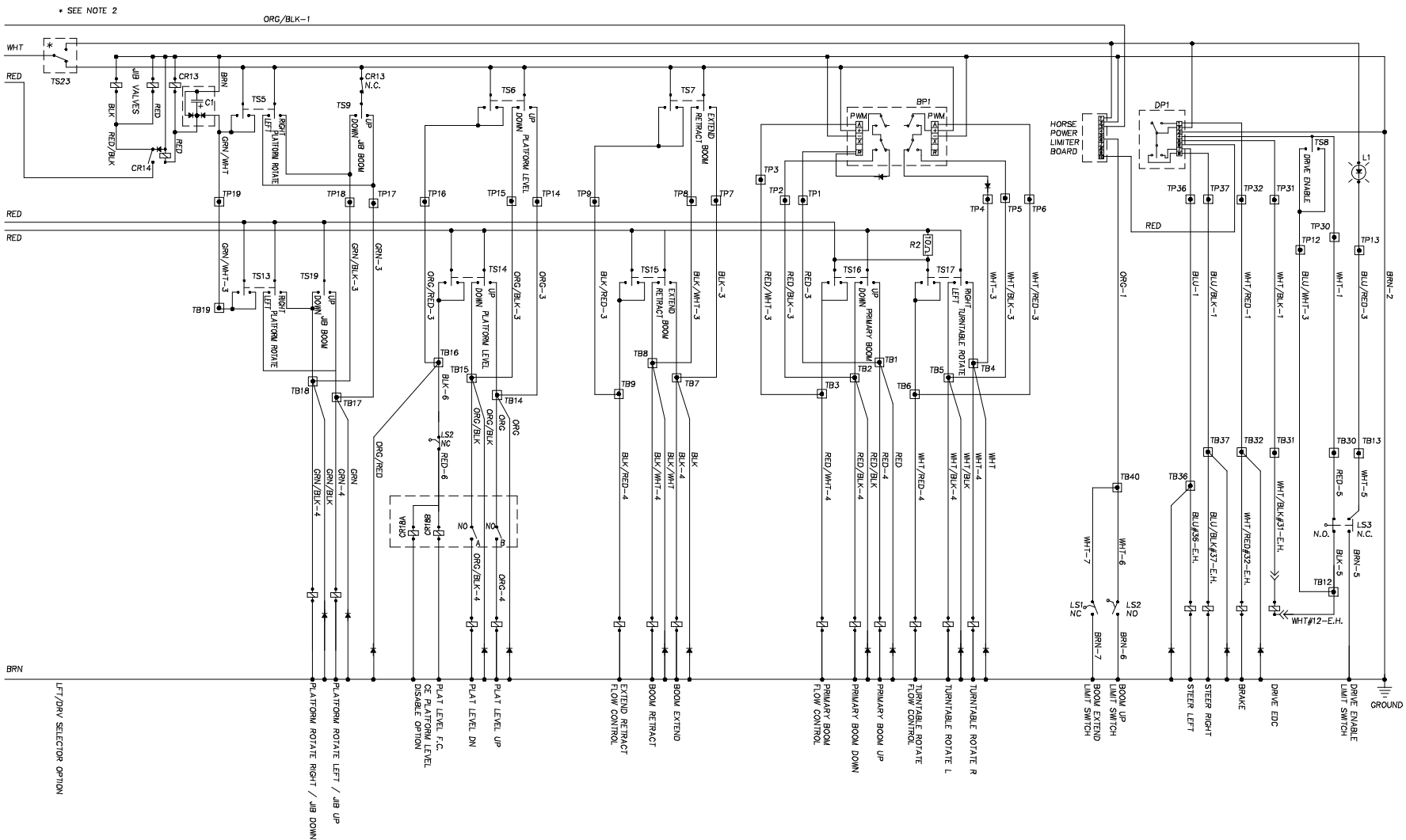


\* SEE NOTE 1

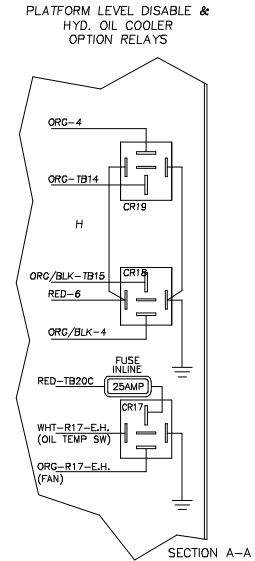
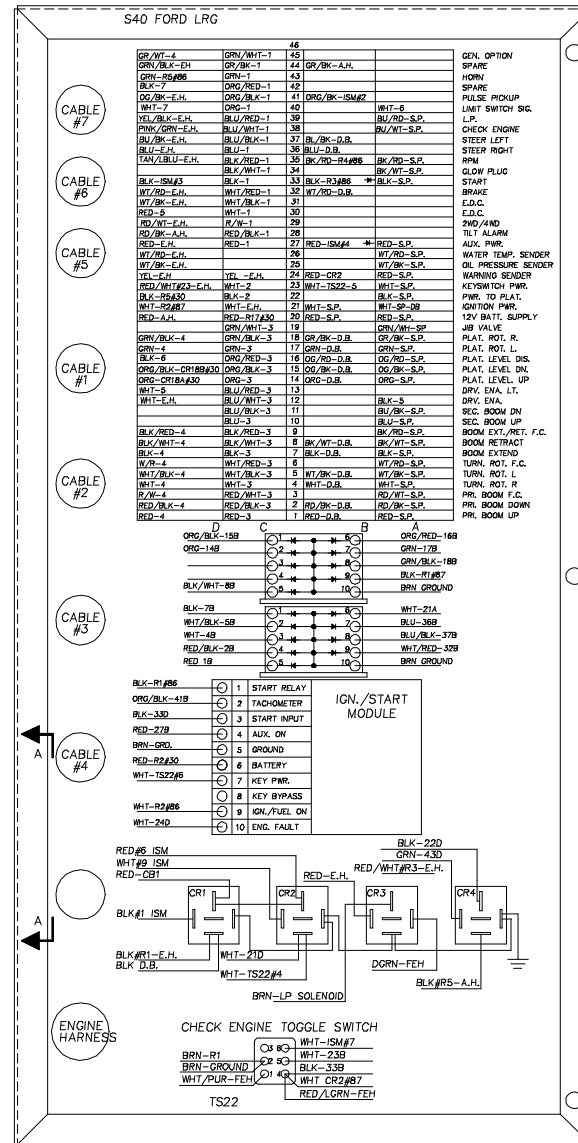
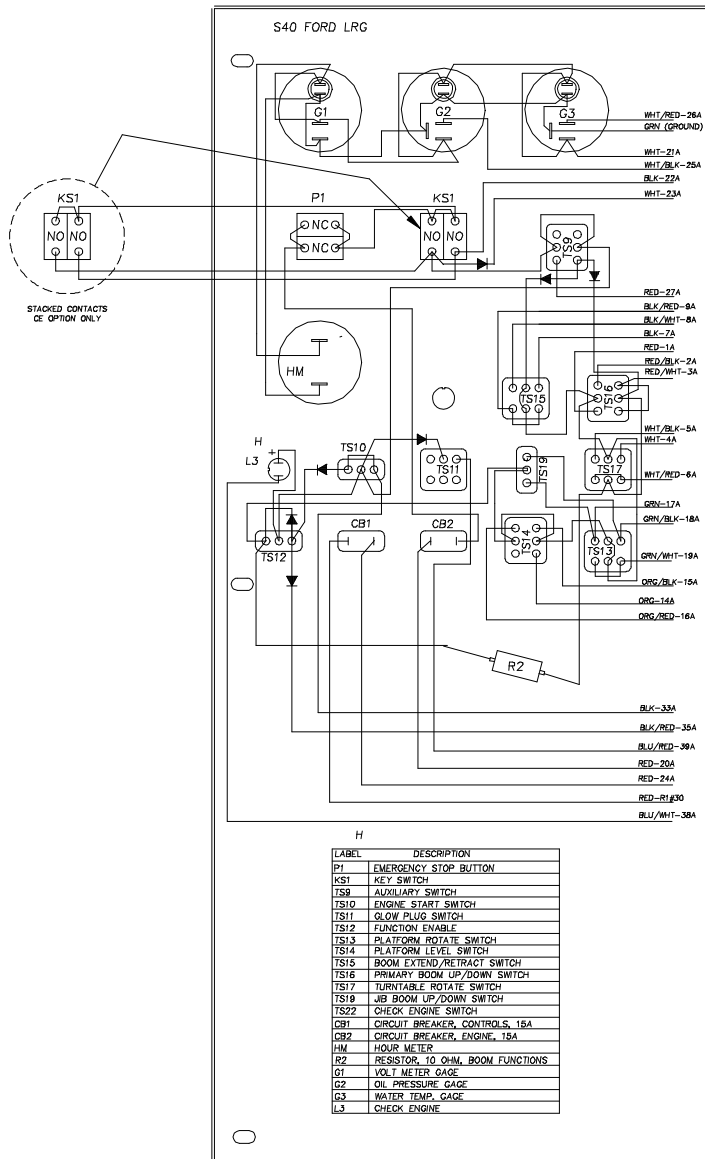
ORG/BLK-1

- NOTES:
1. THE 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 (SHEET 2).
  3. ALL SWITCHES AND CONTACTS ARE SHOWN WITH THE BOOM IN THE STOWED POSITION AND THE KEYSWITCH OFF.
  4. REFER TO DRAWING # E0253 FOR EFI FORD ENGINE HARNESS.

S40/45 2WD & 4WD FORD LRG 425 EFI  
 ELECTRICAL SCHEMATIC (cont'd)  
 SERIAL #1790 & ABOVE

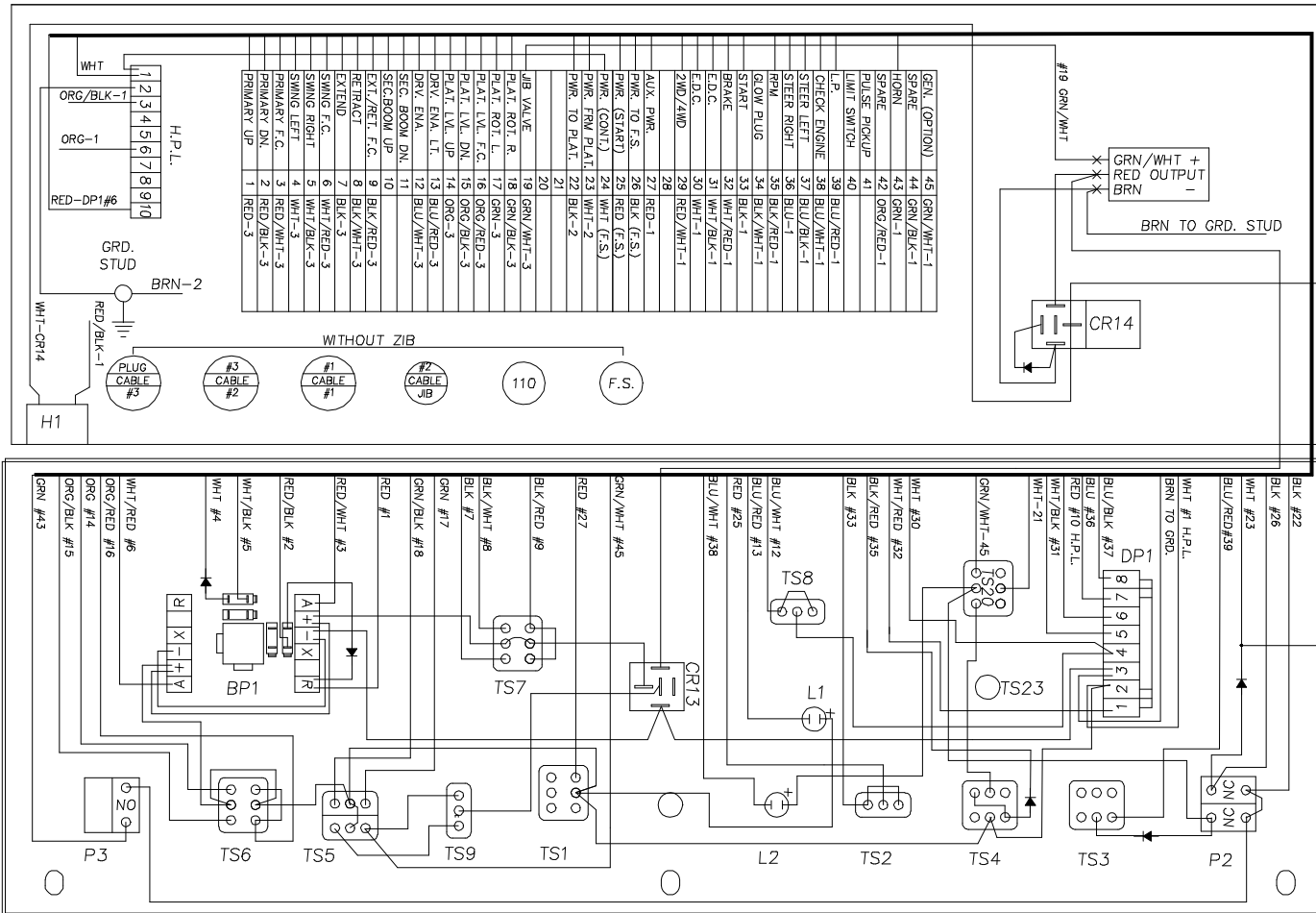


S40/45 2WD & 4WD FORD LRG 425 EFI  
GROUND CONTROL BOX LEGEND  
SERIAL #1790 & ABOVE



| LABEL         | DESCRIPTION                       |
|---------------|-----------------------------------|
| CR1           | IGN/START RELAY                   |
| CR2           | ING./POWER RELAY                  |
| CR3           | HIGH IDLE (RPM) CUTOFF RELAY      |
| CR4           | SERVICE HORN RELAY                |
| CR17          | OIL COOLER OPTION RELAY           |
| CR18 & 9      | PLATFORM LEVEL DISABLE RELAY      |
| IS1 (CABLE#7) | BOOM EXTEND LIMIT SWITCH          |
| IS2 (CABLE#6) | BOOM UP LIMIT SWITCH              |
| IS3 (CABLE#5) | DRIVE ENABLE LIMIT SWITCH         |
| E.H.          | ENGINE HARNESS WIRE               |
| (CABLE#1)     | TO PLATFORM C-BOX, TERMINAL 27-46 |
| (CABLE#2)     | TO PLATFORM C-BOX, TERMINAL 22-23 |
| (CABLE#3)     | TO PLATFORM C-BOX, TERMINAL 1-16  |
| (CABLE#4)     | TO CONTROL SOLENOID               |
| PRI           | AUXILIARY POWER RELAY             |
| PR2           | GLOW PLUG POWER RELAY             |

S40/45 2WD & 4WD FORD LRG 425 EFI  
 PLATFORM CONTROL BOX LEGEND  
 SERIAL #1790 & ABOVE



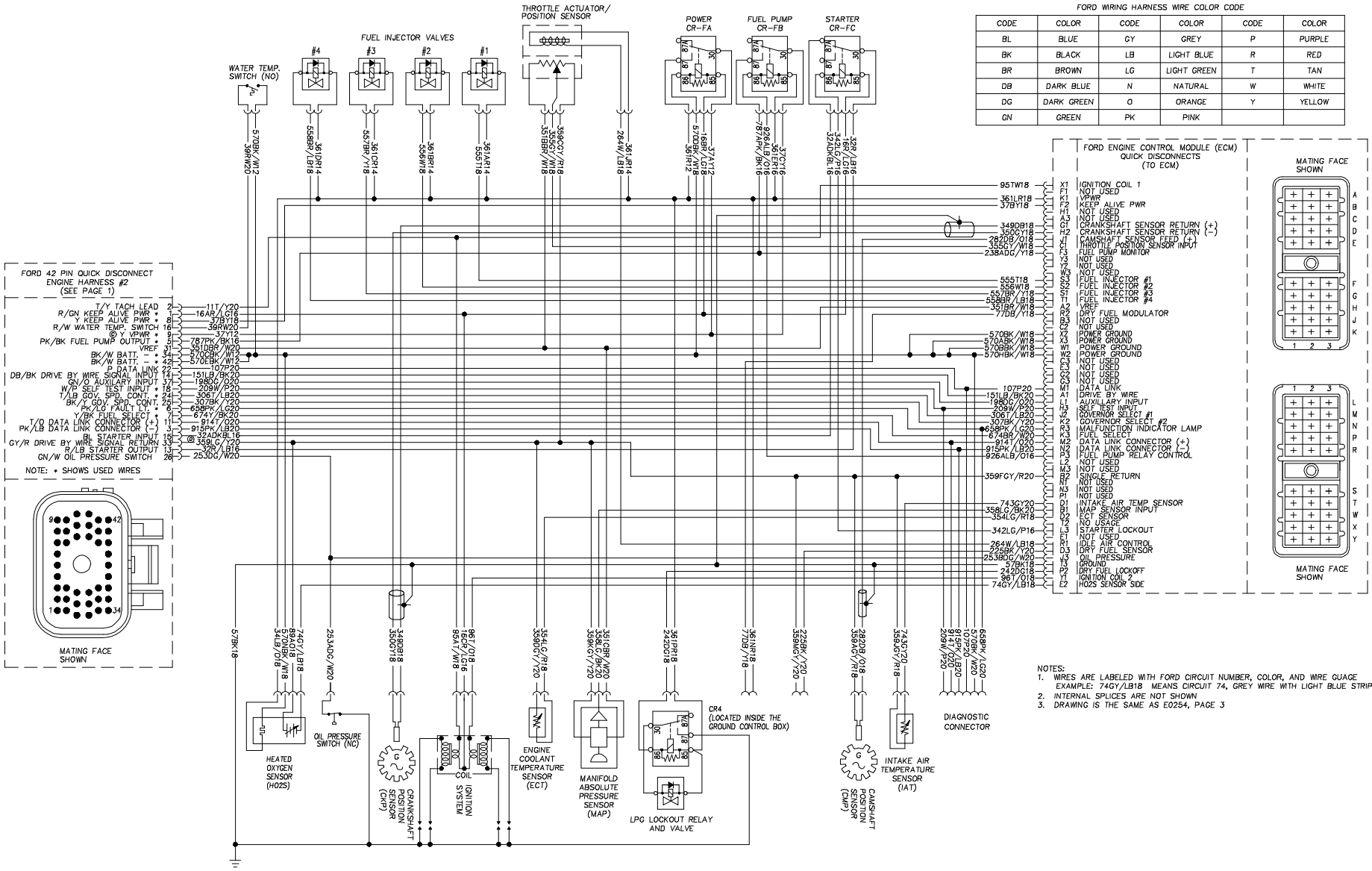
| LABEL    | DESCRIPTION   |
|----------|---|
| P2       | EMERGENCY STOP BUTTON                                       |
| P3       | JOBIN SWITCH  |
| TS1      | AUXILIARY SWITCH  |
| TS2      | START ENGINE SWITCH   |
| TS3      | FUEL SELECT SWITCH  |
| TS4      | HORN, P.P.M. SWITCH   |
| TS5      | PLATFORM ROTATE SWITCH (S45 SHOWN)                          |
| TS6      | PLATFORM LIVES SWITCH                                       |
| TS7      | PRIMARY BOOM EXTEND/RETRACT SWITCH                          |
| TS8      | DRIVE ENABLE SWITCH   |
| TS9      | JIB ROOM SWITCH (S45 ONLY)                                  |
| TS20     | GENERATOR SWITCH (OPTION)                                   |
| TS23     | LIFT/DRIVE SELECT SWITCH (OPTION)                           |
| GR13     | JIB (LOCKOUT) RELAY   |
| GR14     | PLATFORM ROTATOR RELAY                                      |
| CR1      | DELAY CAPACITOR   |
| H1       | TIPT ALARM  |
| LT       | DRIVE ENABLE LED  |
| L2       | CHECK ENGINE  |
| DP1      | BOOM PROPORTIONAL JOYSTICK STEER LEFT / RIGHT               |
| BP1      | ROOM PROPORTIONAL JOYSTICK PRIMARY UP/DN, TURN TABLE ROTATE |
| H.P.L.   | HORNPOWER LIGHTER BOARD                                     |
| CABLE #1 | FROM GROUND C-BOX, TERMINAL 27-45                           |
| CABLE #2 | FROM GROUND C-BOX, TERMINAL 22-23                           |
| CABLE #3 | FROM GROUND C-BOX, TERMINAL 1-19                            |
| JIB      | CABLE FOR JIB FUNCTION                                      |
| T10      | AC POWER CABLE FROM GROUND                                  |
| F.S.     | CABLE FROM FOOTSWITCH                                       |

S40/45 FORD PLATFORM CONTROL BOX - SEE DEUTZ FOR LIFT/DRIVE SELECT OPTION

# S40/45 FORD LRG 425 EFI ENGINE HARNESS SERIAL # 1790 & ABOVE

FORD WIRING HARNESS WIRE COLOR CODE

| CODE | COLOR      | CODE | COLOR       | CODE | COLOR  |
|------|------------|------|-------------|------|--------|
| BL   | BLUE       | GY   | GREY        | P    | PURPLE |
| BK   | BLACK      | LB   | LIGHT BLUE  | R    | RED    |
| BR   | BROWN      | LG   | LIGHT GREEN | T    | TAN    |
| DB   | DARK BLUE  | N    | NATURAL     | W    | WHITE  |
| DG   | DARK GREEN | O    | ORANGE      | Y    | YELLOW |
| GN   | GREEN      | PK   | PINK        |      |        |



- NOTES:  
 1. WIRES ARE LABELED WITH FORD CIRCUIT NUMBER, COLOR, AND WIRE GAUGE  
 EXAMPLE: 74GY/LB18 MEANS CIRCUIT 74, GREY WIRE WITH LIGHT BLUE STRIPE, 18 GAUGE WIRE  
 2. INTERNAL SPLICES ARE NOT SHOWN  
 3. DRAWING IS THE SAME AS E0254, PAGE 3