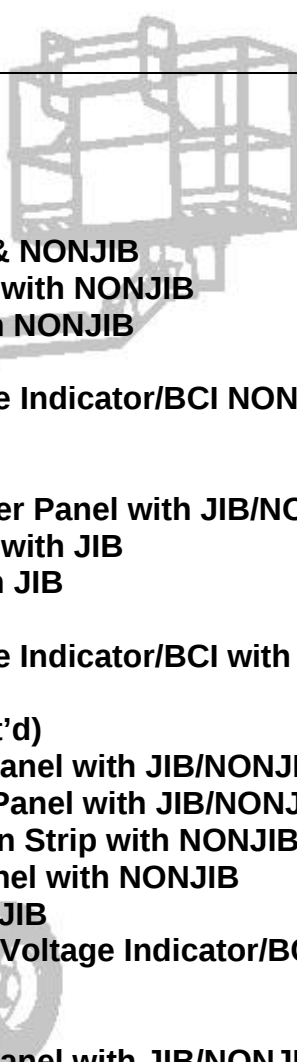


Z13 Z45/25 DC & Bi-Energy

Page: Model: Serial Number:



Z13-01A	Z45/25 DC – Electrical Schematic with NONJIB
Z13-01B	Z45/25 DC – Electrical Schematic with NONJIB (cont'd)
Z13-02	Z45/25 DC Bi-Energy – Electrical Connection Diagram JIB & NONJIB
Z13-03	Z45/25 DC – Ground Control Box Legend Connection Strip with NONJIB
Z13-04	Z45/25 DC – Ground Control Box Legend Switch Panel with NONJIB
Z13-05	Z45/25 DC – Platform Control Box Legend with NONJIB
Z13-06	Z45/25 DC – Platform Control Box Legend with Low Voltage Indicator/BCI NONJIB
Z13-07A	Z45/25 DC – Electrical Schematic with JIB
Z13-07B	Z45/25 DC – Electrical Schematic with JIB (cont'd)
Z13-08	Z45/25 DC Bi-Energy – Electrical Connection Diagram Power Panel with JIB/NONJIB
Z13-09	Z45/25 DC – Ground Control Box Legend Connection Strip with JIB
Z13-10	Z45/25 DC – Ground Control Box Legend Switch Panel with JIB
Z13-11	Z45/25 DC – Platform Control Box Legend with JIB
Z13-12	Z45/25 DC – Platform Control Box Legend with Low Voltage Indicator/BCI with JIB
Z13-13A	Z45/25 Bi-Energy – Electrical Schematic with NONJIB
Z13-13B	Z45/25 Bi-Energy – Electrical Schematic with NONJIB (cont'd)
Z13-14	Z45/25 Bi-Energy – Electrical Connection Diagram Power Panel with JIB/NONJIB
Z13-15	Z45/25 Bi-Energy – Electrical Connection Diagram Engine Panel with JIB/NONJIB
Z13-16	Z45/25 Bi-Energy – Ground Control Box Legend Connection Strip with NONJIB
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Z13-18	Z45/25 Bi-Energy – Platform Control Box Legend with NONJIB
Z13-19	Z45/25 Bi-Energy – Platform Control Box Legend with Low Voltage Indicator/BCI with NONJIB
Z13-20A	Z45/25 Bi-Energy – Electrical Schematic with JIB
Z13-20B	Z45/25 Bi-Energy – Electrical Schematic with JIB (cont'd)
Z13-21	Z45/25 Bi-Energy – Electrical Connection Diagram Power Panel with JIB/NONJIB
Z13-22	Z45/25 Bi-Energy – Electrical Connection Diagram Engine Panel with JIB/NONJIB

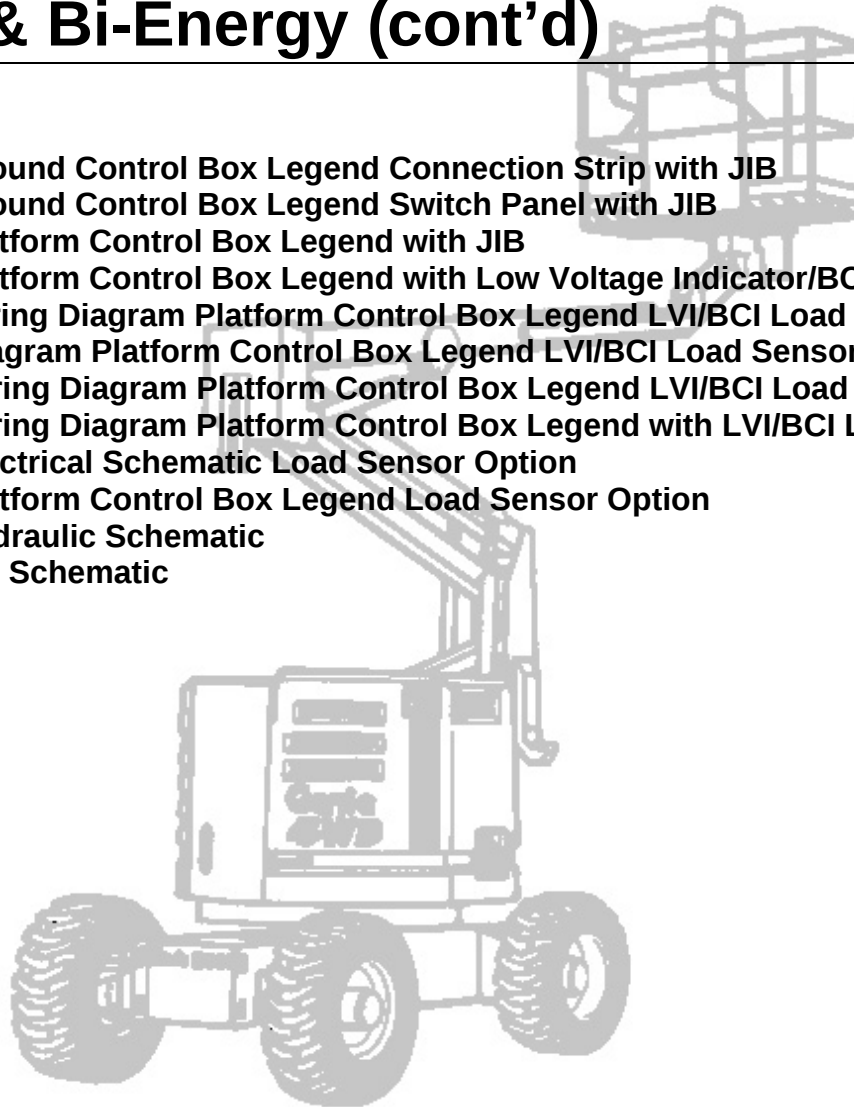
Z13 Z45/25 DC & Bi-Energy (cont'd)

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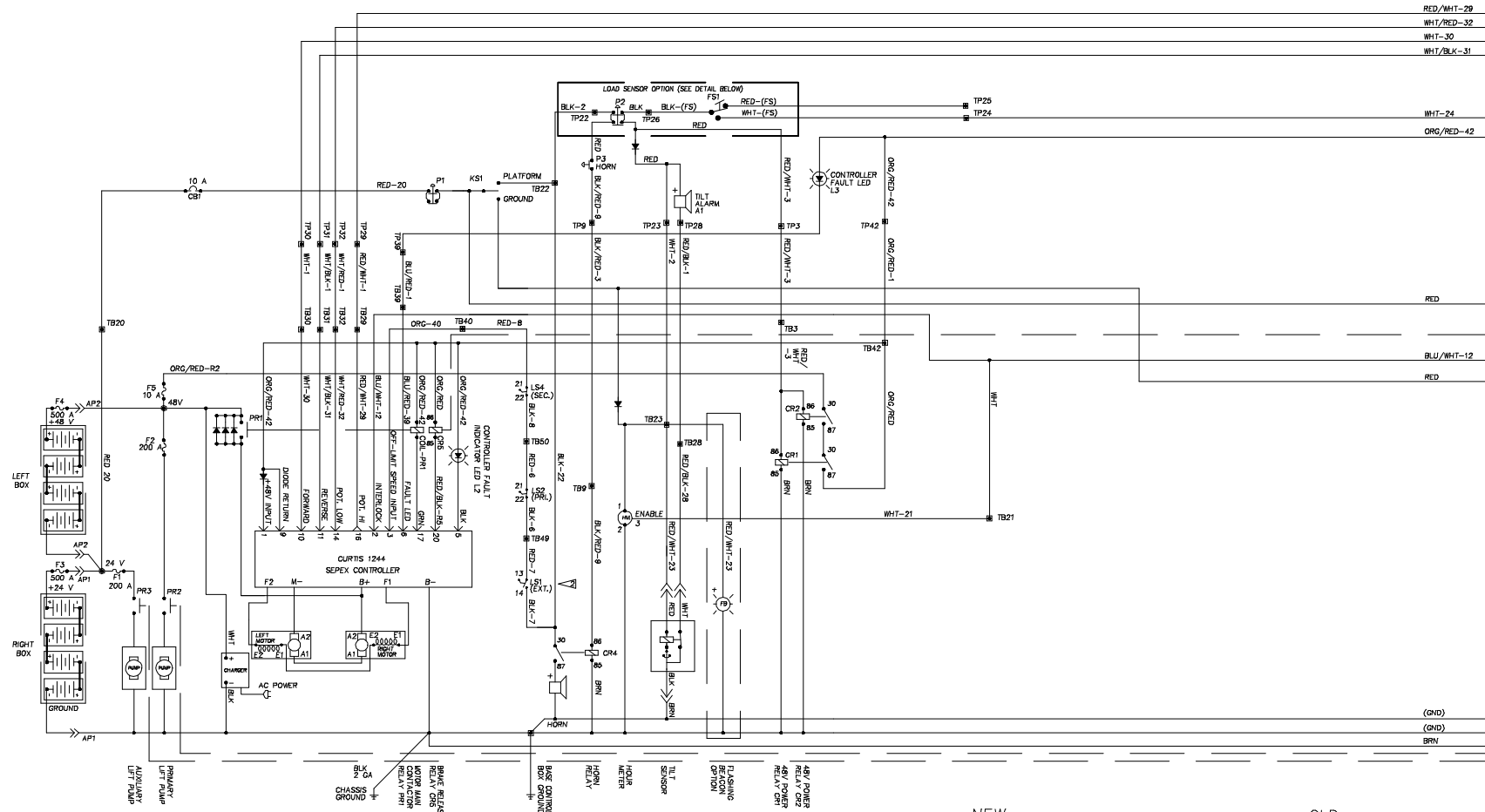
Model:

Serial Number:

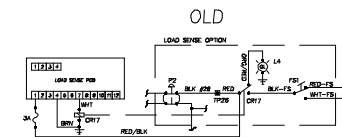
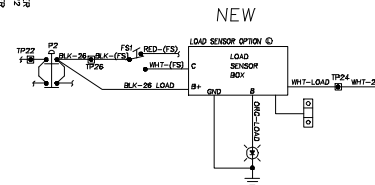
Z13-23	Z45/25 Bi-Energy – Ground Control Box Legend Connection Strip with JIB
Z13-24	Z45/25 Bi-Energy – Ground Control Box Legend Switch Panel with JIB
Z13-25	Z45/25 Bi-Energy – Platform Control Box Legend with JIB
Z13-26	Z45/25 Bi-Energy – Platform Control Box Legend with Low Voltage Indicator/BCI with JIB
Z13-27	Z45/25 DC Sepex – Wiring Diagram Platform Control Box Legend LVI/BCI Load Sensor(old)with NONJIB
Z13-28	Z45/25 DC – Wiring Diagram Platform Control Box Legend LVI/BCI Load Sensor (old) with JIB
Z13-29	Z45/25 Bi-Energy – Wiring Diagram Platform Control Box Legend LVI/BCI Load Sensor(old)with NONJIB
Z13-30	Z45/25 Bi-Energy – Wiring Diagram Platform Control Box Legend with LVI/BCI Load Sensor(old) with JIB
Z13-31	Z45/25 Bi-Energy – Electrical Schematic Load Sensor Option
Z13-32	Z45/25 Bi-Energy – Platform Control Box Legend Load Sensor Option
Z13-33	Z45/25 Bi-Energy – Hydraulic Schematic
Z13-34	Z45/25 DC – Hydraulic Schematic



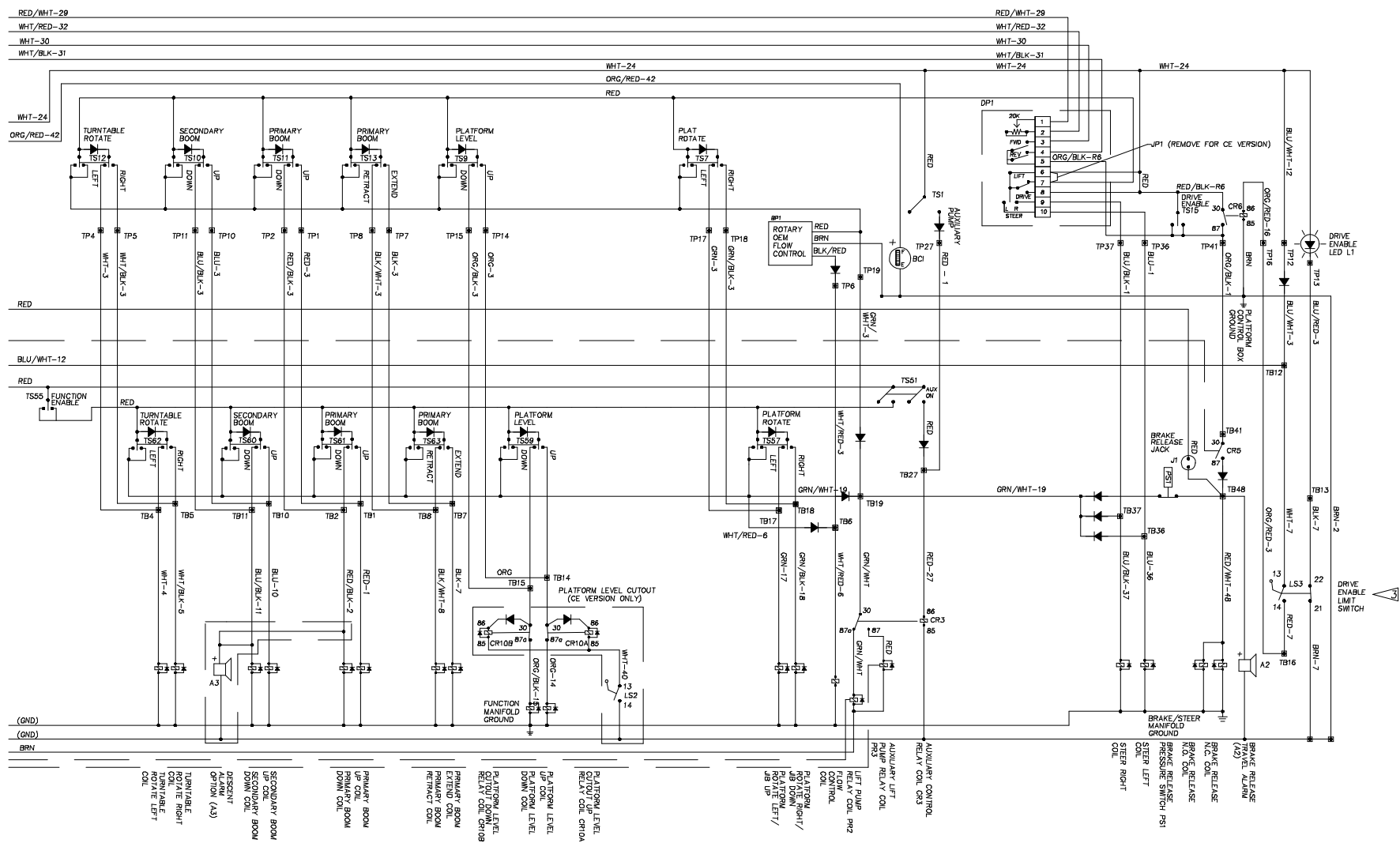
Z45/25 DC ELECTRICAL SCHEMATIC WITH NONJIB



- NOTES:
1. ALL LIMIT SWITCHES SHOWN WITH BOOM IN STOWED POSITION EXCEPT AS NOTED.
 2. SWITCH SHOWN WITH BOOM EXTENDED.
 3. SWITCH SHOWN WITH BOOM ROTATED PAST EITHER NON-STEER WHEEL.
 4. ALL SOLENOID AND RELAY COILS ARE 24VDC EXCEPT WHERE NOTED.

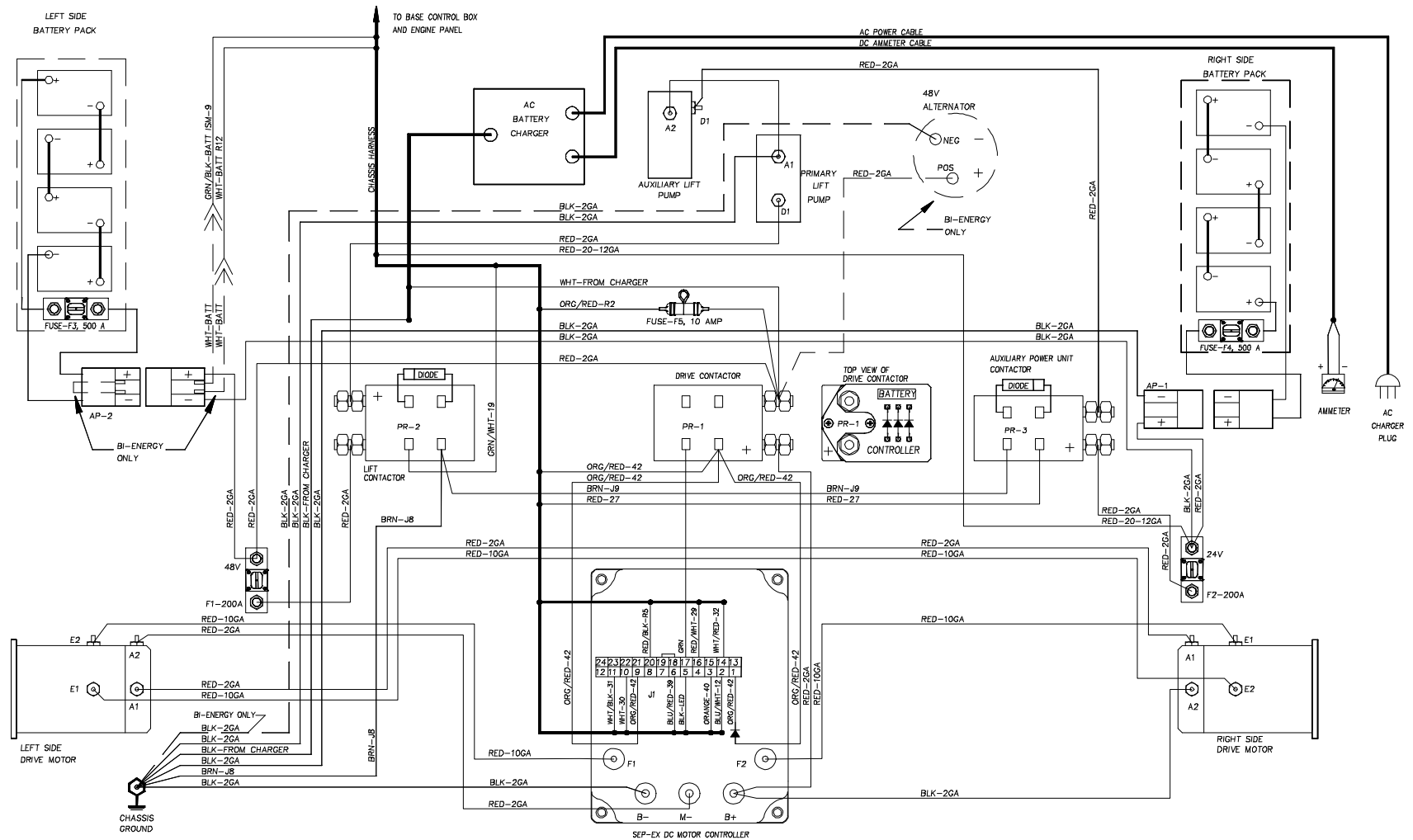


Z45/25 DC
ELECTRICAL SCHEMATIC (cont'd)
WITH NONJIB



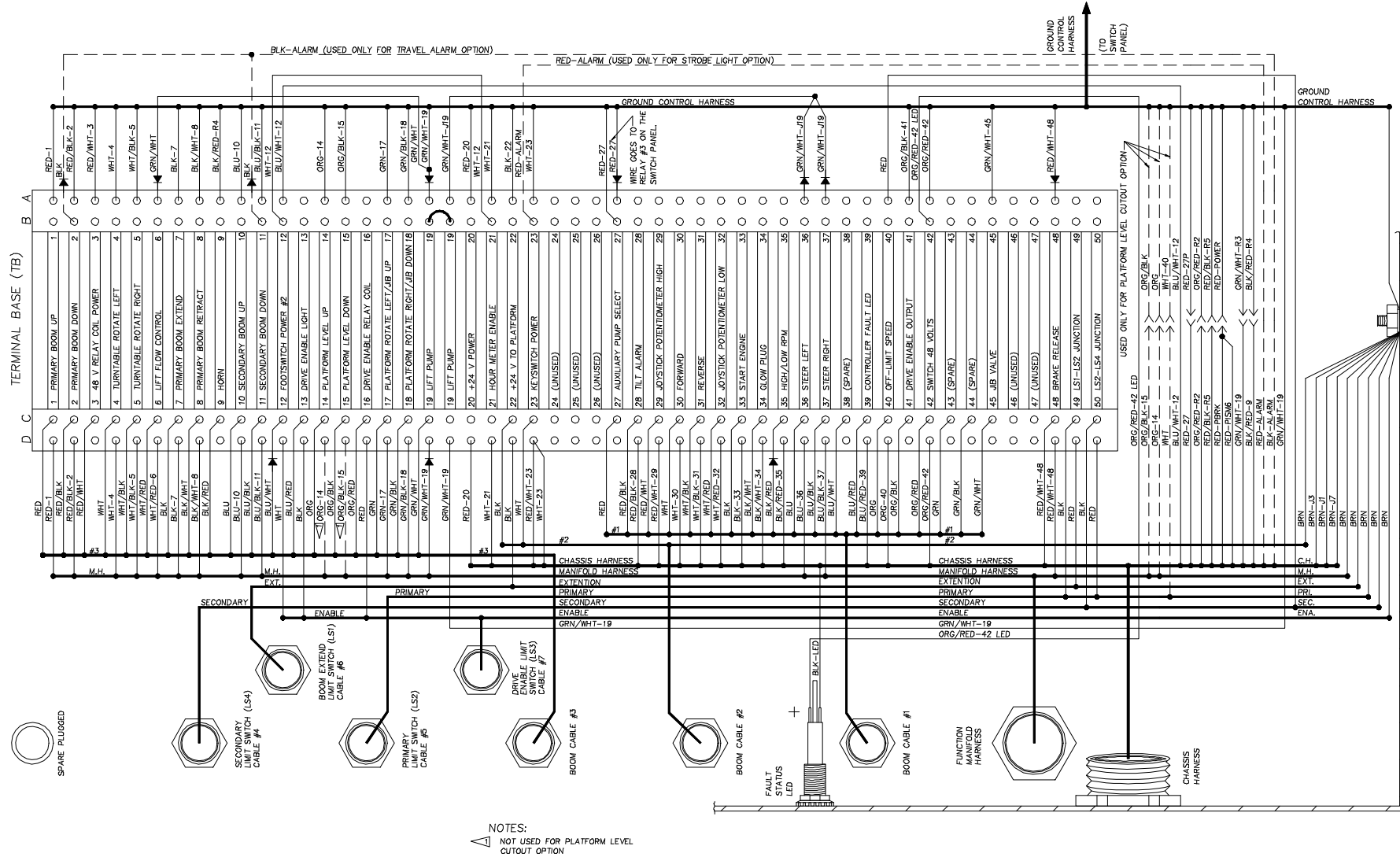
- NOTES:
1. ALL LIMIT SWITCHES SHOWN WITH BOOM IN STOWED POSITION EXCEPT AS NOTED.
 2. SWITCH SHOWN WITH BOOM EXTENDED.
 3. SWITCH SHOWN WITH BOOM ROTATED PAST EITHER NON-STEER WHEEL.
 4. ALL SOLENOID AND RELAY COILS ARE 24VDC EXCEPT WHERE NOTED.

Z45/25 DC BI-ENERGY
ELECTRICAL CONNECTION DIAGRAM
JIB & NONJIB

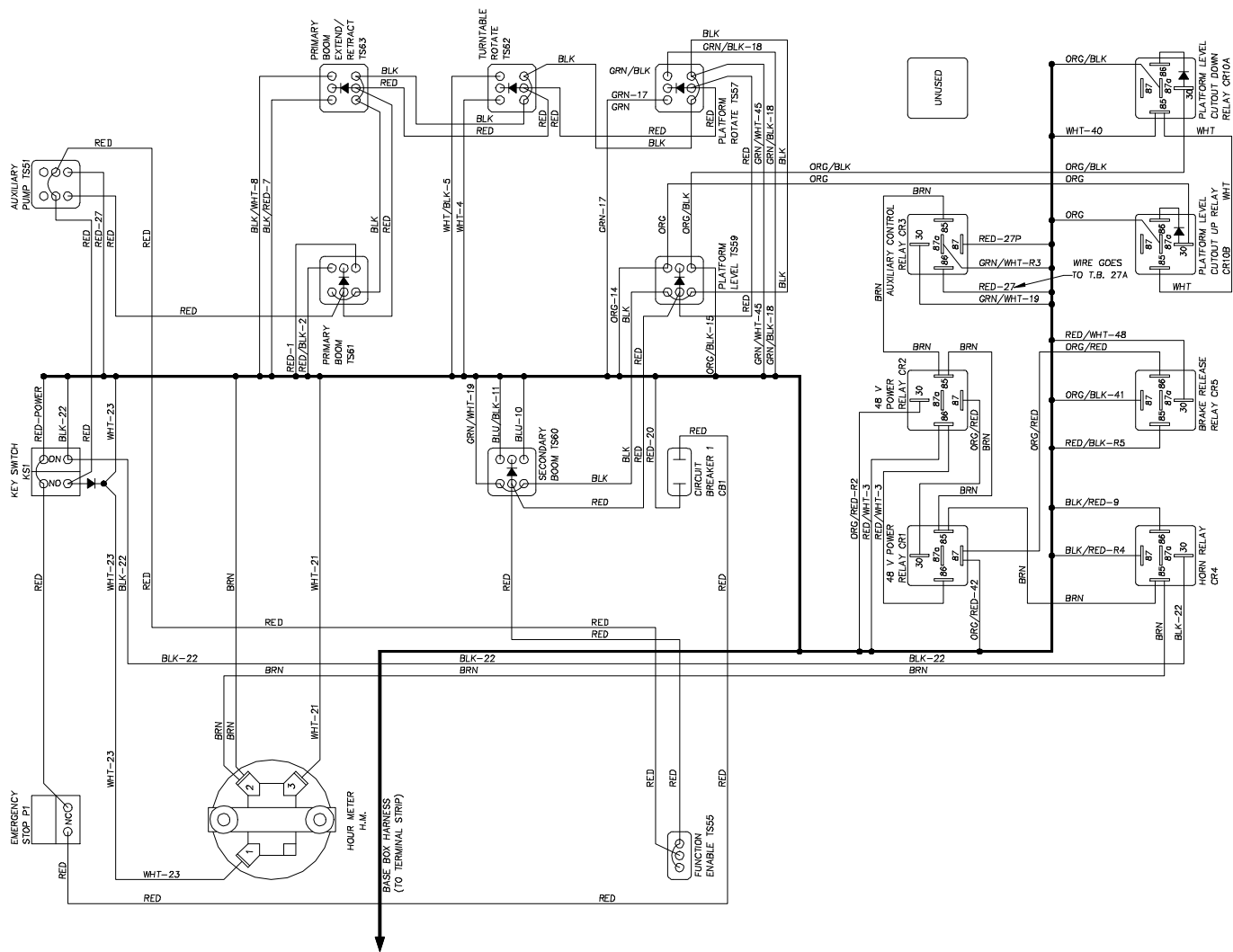


- NOTES:
1. ALL WIRE IS 16 GAUGE UNLESS OTHERWISE SPECIFIED
 2. DRAWINGS FOR THE JIB AND NON-JIB OPTIONS ARE THE SAME.

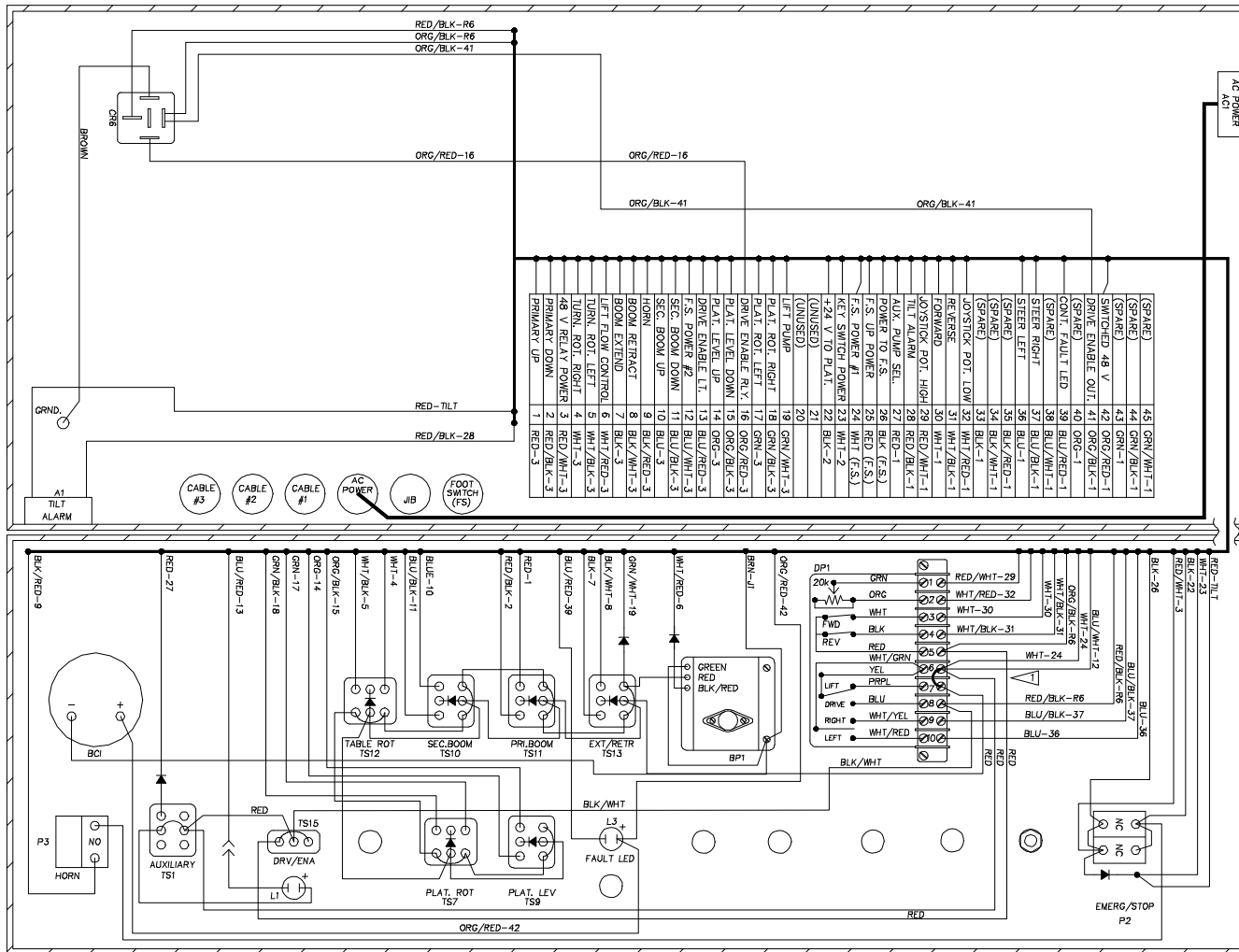
Z45/25 DC
GROUND CONTROL BOX
CONNECTION STRIP
WITH NONJIB



Z45/25 DC
GROUND CONTROL BOX LEGEND
SWITCH PANEL
WITH NONJIB



Z45/25 DC PLATFORM CONTROL BOX LEGEND WITH NONJIB



COMPONENT INDEX

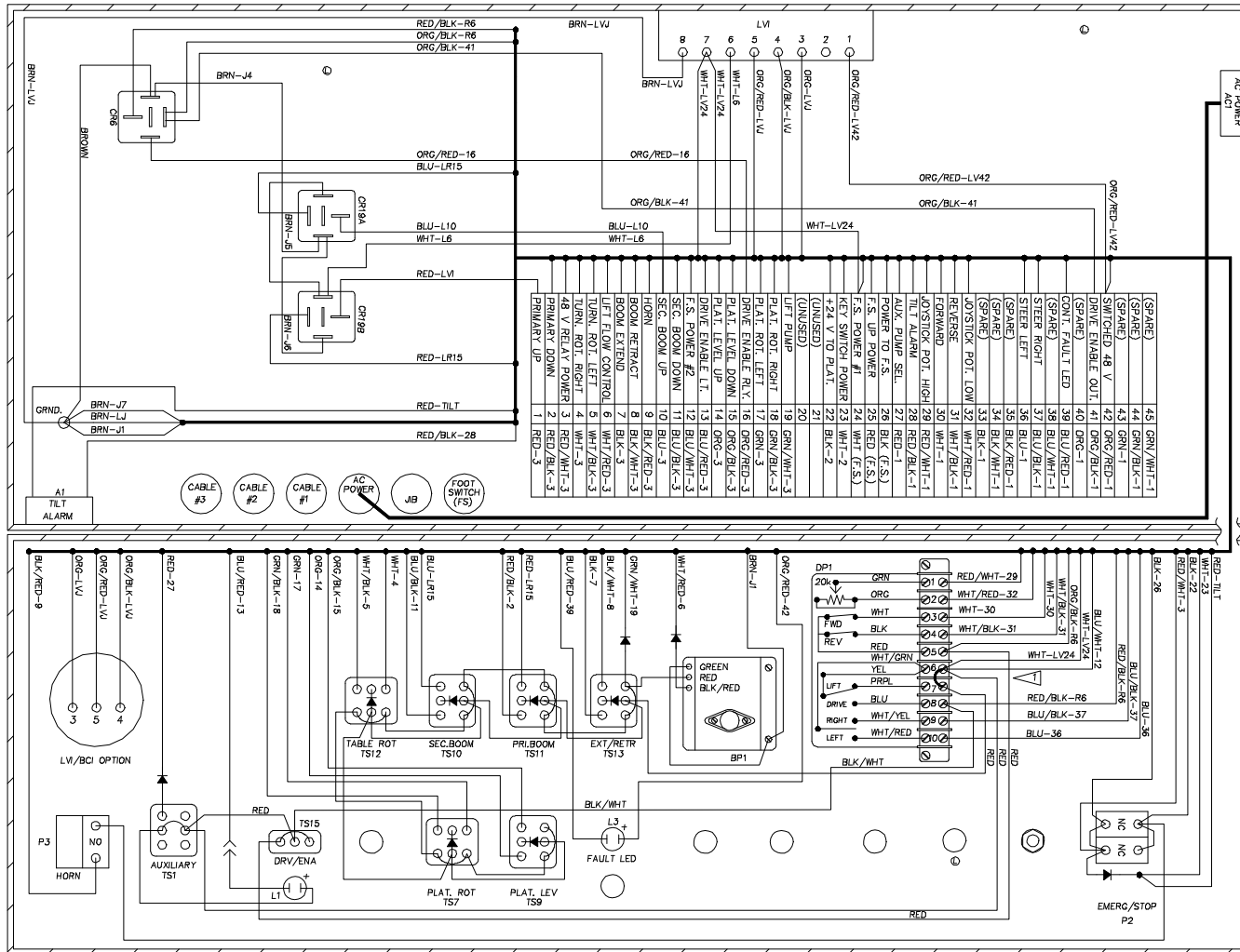
A1	TILT ALARM
AC1	AC OUTLET BOX
BCI	BATTERY CHARGE INDICATOR
BP1	ROTARY FLOW CONTROL DIAL
CR6	DRIVE ENABLE RELAY
CR7A	JIB CUTOFF RELAY
CR7B	JIB VALVE RELAY
CR19A	LOW VOLTAGE INTERRUPT/BCI RELAY A (LVI OPTION ONLY)
CR19B	LOW VOLTAGE INTERRUPT/BCI RELAY B (LVI OPTION ONLY)
DP1	DRIVE JOYSTICK
L1	DRIVE ENABLE LED
L3	CONTROLLER FAULT LED
LVI	LOW VOLTAGE INTERRUPT MODULE
LVI/BCI	BATTERY CHARGE INDICATOR FOR LVI OPTION
P2	EMERGENCY STOP #2
P3	HORN
T1	TIME DELAY #1
TS1	AUXILIARY SWITCH
TS2	START ENGINE SWITCH (BI-ENERGY ONLY)
TS4	HIGH / LOW RPM SWITCH (BI-ENERGY ONLY)
TS6	GLOW PLUG SWITCH (BI-ENERGY ONLY)
TS7	PLATFORM ROTATE SWITCH
TS8	JIB UP / DOWN SWITCH (JIB ONLY)
TS9	PLATFORM LEVEL SWITCH
TS10	SECONDARY BOOM SWITCH
TS11	PRIMARY BOOM UP / DOWN SWITCH
TS12	TURNABLE ROTATE SWITCH
TS13	PRIMARY BOOM EXTEND / RETRACT SWITCH
TS14	DRIVE RANGE HIGH / LOW SWITCH
TS15	DRIVE ENABLE SWITCH

NOTE: TO VIEW LAYER SETUP, THAW THE LAYER "LAYER-MAN".

NOTE: ALL WIRES WITHOUT LABELS ARE EITHER RED OR BLACK JUMPER WIRES.

FOR LIFT DRIVE SELECTOR OPTION
TAKE OFF JUMP BETWEEN 6 & 7

Z45/25 DC PLATFORM CONTROL BOX LEGEND WITH LOW VOLTAGE INDICATOR/BCI WITH NONJIB



COMPONENT INDEX

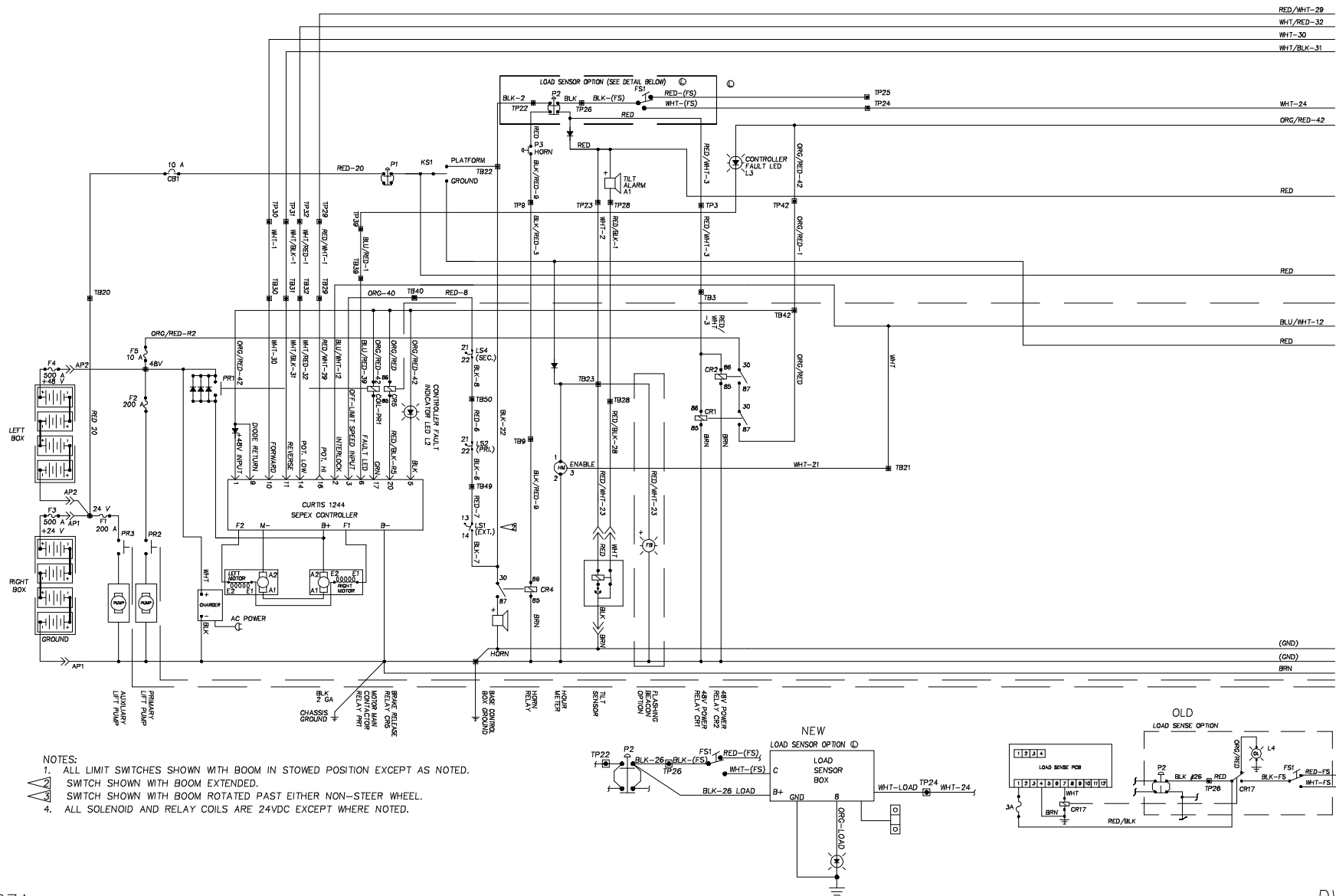
A1	TILT ALARM
AC1	AC OUTLET BOX
BCI	BATTERY CHARGE INDICATOR
BP1	ROTARY FLOW CONTROL DIAL
CR6	DRIVE ENABLE RELAY
CR7A	JIB CUTOFF RELAY
CR7B	JIB VALVE RELAY
CR19A	LOW VOLTAGE INTERRUPT/BCI RELAY A (LV1 OPTION ONLY)
CR19B	LOW VOLTAGE INTERRUPT/BCI RELAY B (LV1 OPTION ONLY)
DP1	DRIVE JOYSTICK
L1	DRIVE ENABLE LED
L3	CONTROLLER FAULT LED
LV1	LOW VOLTAGE INTERRUPT MODULE
LV1/BCI	BATTERY CHARGE INDICATOR FOR LV1 OPTION
P2	EMERGENCY STOP #2
P3	HORN
T1	TIME DELAY #1
TS1	AUXILIARY SWITCH
TS2	START ENGINE SWITCH (BI-ENERGY ONLY)
TS4	HIGH / LOW RPM SWITCH (BI-ENERGY ONLY)
TS6	GLOW PLUG SWITCH (BI-ENERGY ONLY)
TS7	PLATFORM ROTATE SWITCH
TS8	JIB UP / DOWN SWITCH (JIB ONLY)
TS9	PLATFORM LEVEL SWITCH
TS10	SECONDARY BOOM SWITCH
TS11	PRIMARY BOOM UP / DOWN SWITCH
TS12	TURNABLE ROTATE SWITCH
TS13	PRIMARY BOOM EXTEND / RETRACT SWITCH
TS14	DRIVE RANGE HIGH / LOW SWITCH
TS15	DRIVE ENABLE SWITCH

NOTE: TO VIEW LAYER SETUP, THAW THE LAYER "LAYER-MAP"

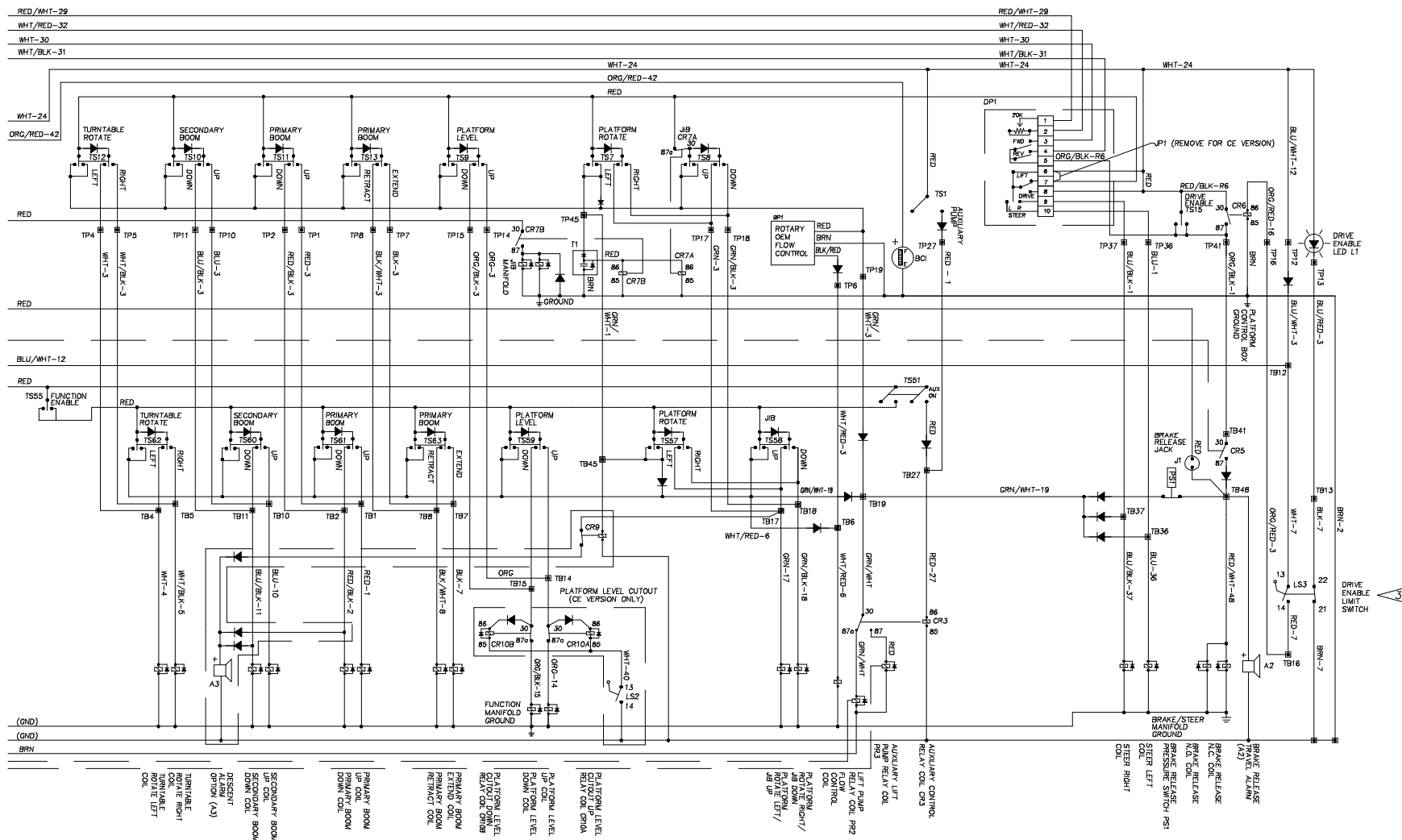
NOTE: ALL WIRES WITHOUT LABELS ARE EITHER RED OR BLACK JUMPER WIRES.

FOR LIFT DRIVE SELECTOR OPTION
TAKE OFF JUMP BETWEEN 6 & 7

Z45/25 DC ELECTRICAL SCHEMATIC WITH JIB



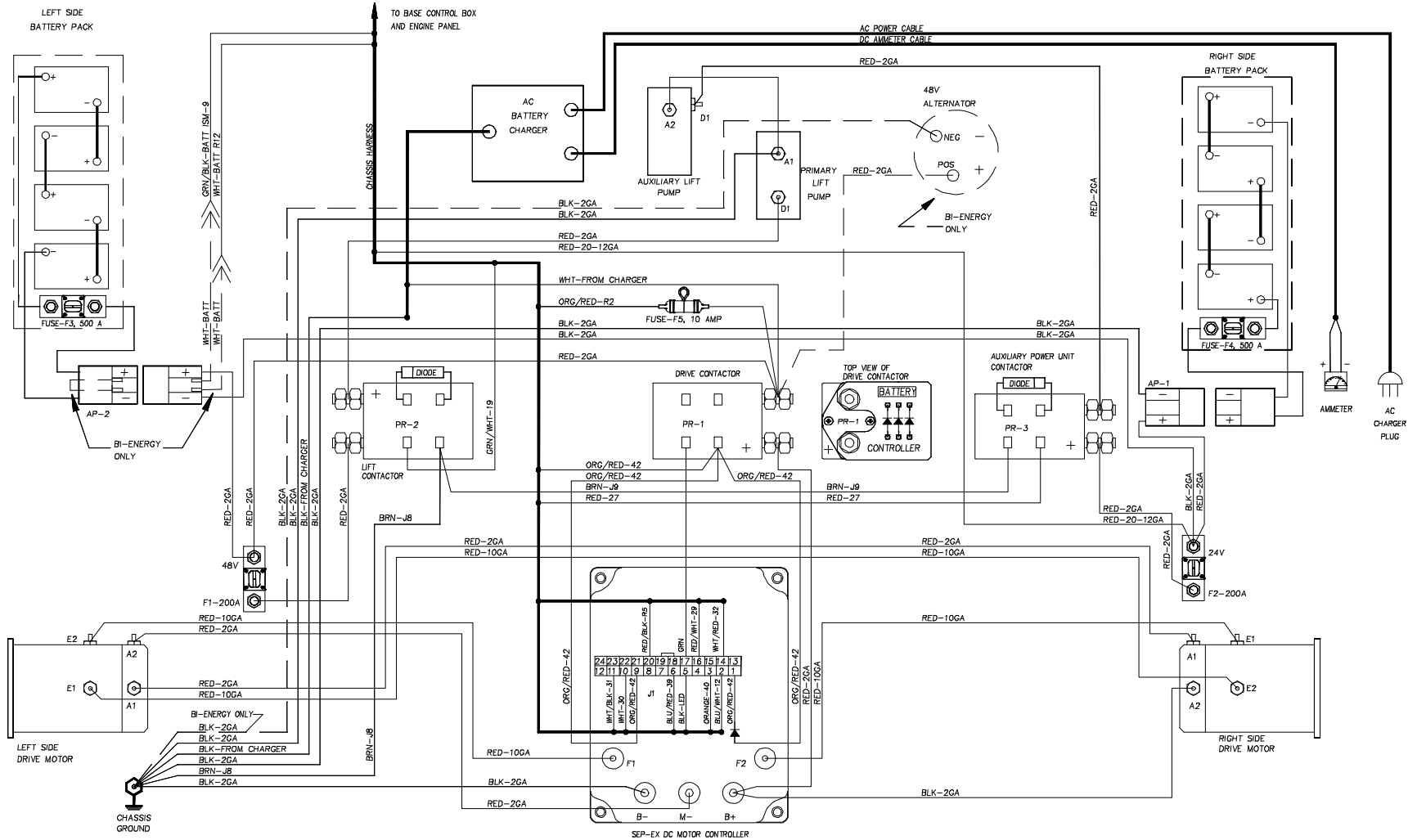
Z45/25 DC
ELECTRICAL SCHEMATIC (cont'd)
WITH JIB



NOTES:

- NOTES:
1. ALL LIMIT SWITCHES SHOWN WITH BOOM IN STOWED POSITION EXCEPT AS NOTED.
 SWITCH SHOWN WITH BOOM EXTENDED.
 2. SWITCH SHOWN WITH BOOM ROTATED PAST EITHER NON-STEER WHEEL.
 3.  SWITCH SHOWN WITH BOOM ROTATED PAST EITHER NON-STEER WHEEL.
 4. ALL SOLENOID AND RELAY COILS ARE 24VDC EXCEPT WHERE NOTED.

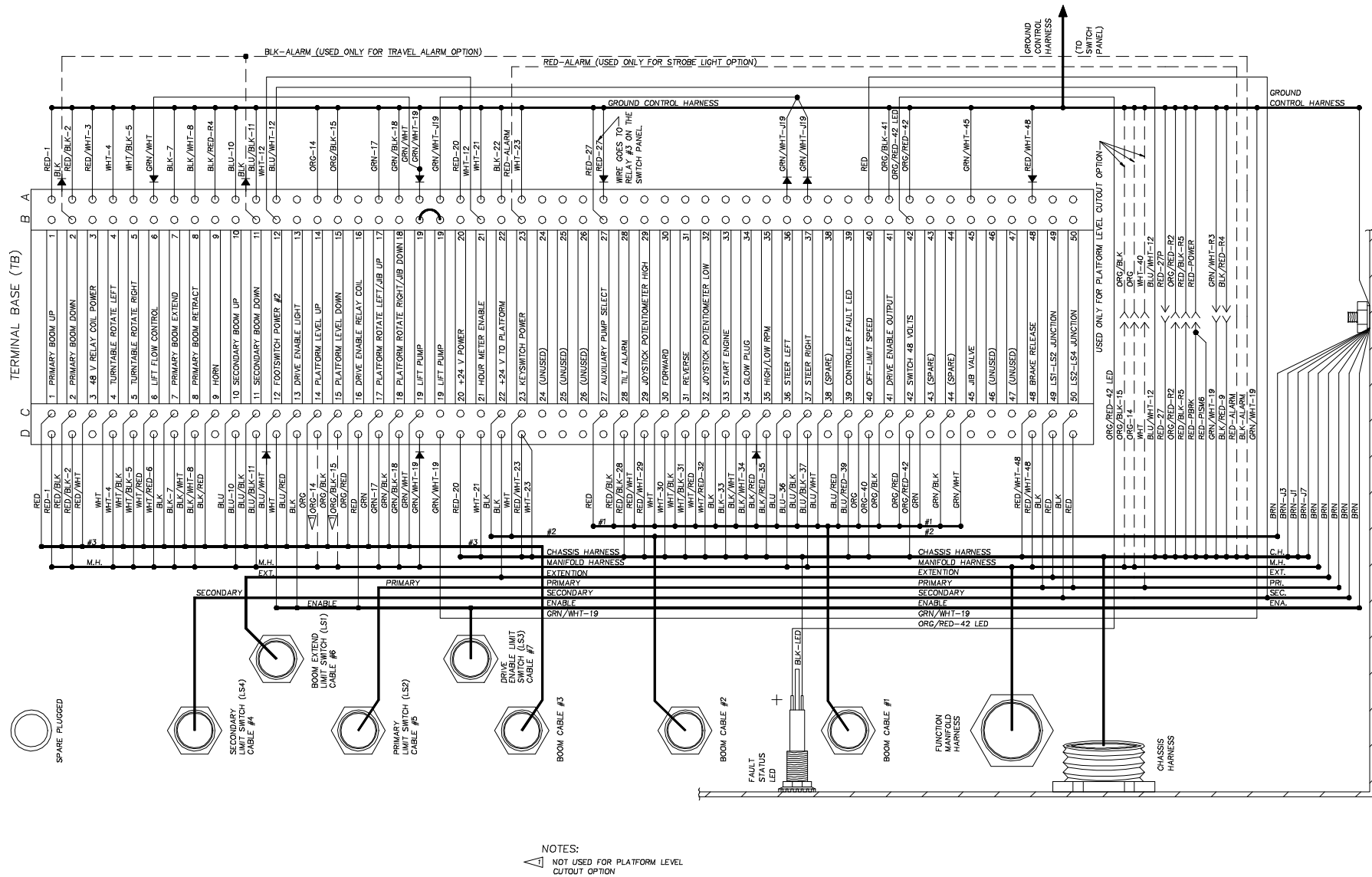
Z45/25 DC BI-ENERGY
ELECTRICAL CONNECTION DIAGRAM
POWER PANEL
WITH JIB/NONJIB



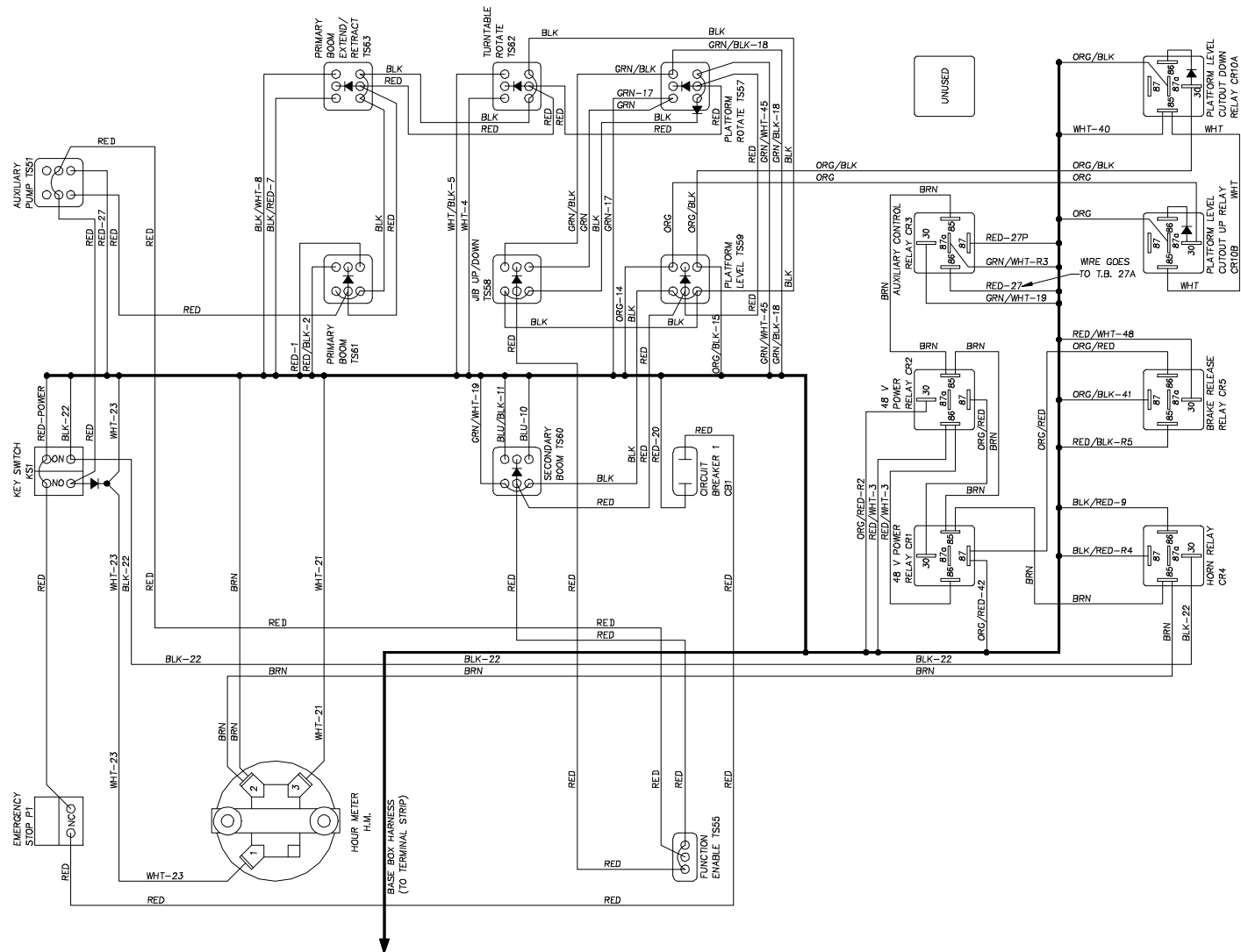
NOTES:

1. ALL WIRE IS 16 GAUGE UNLESS OTHERWISE SPECIFIED
2. DRAWINGS FOR THE JIB AND NON-JIB OPTIONS ARE THE SAME.

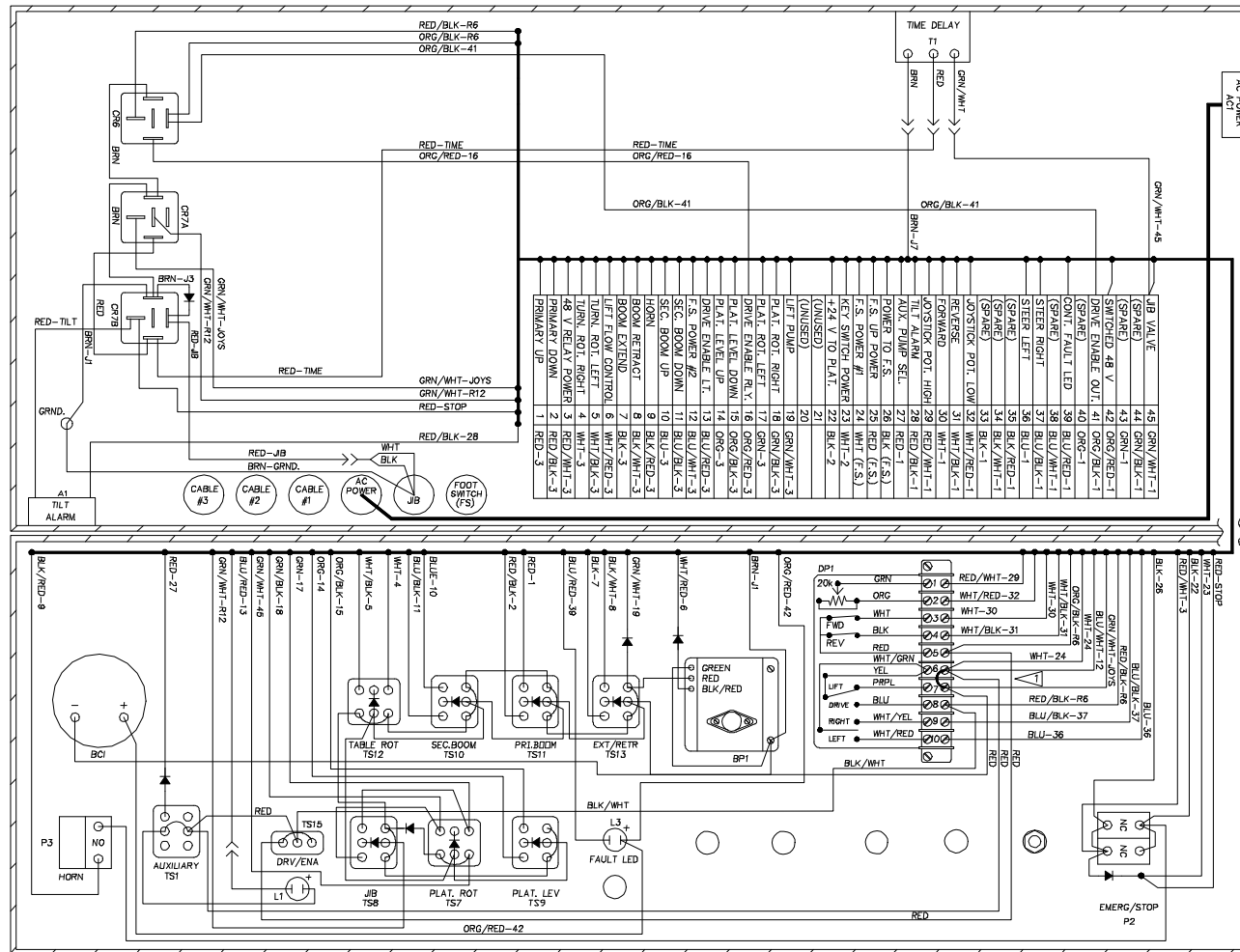
Z45/25 DC
GROUND CONTROL BOX LEGEND
CONNECTION STRIP
WITH JIB



Z45/25 DC
GROUND CONTROL BOX LEGEND
SWITCH PANEL
WITH JIB



Z45/25 DC PLATFORM CONTROL BOX LEGEND WITH JIB



COMPONENT INDEX	
A1	TILT ALARM
AC1	AC OUTLET BOX
BCI	BATTERY CHARGE INDICATOR
BP1	ROTARY FLOW CONTROL DIAL
CR6	DRIVE ENABLE RELAY
CR7A	JIB CUTOUT RELAY
CR7B	JIB VALVE RELAY
CR19A	LOW VOLTAGE INTERRUPT/BCI RELAY A (LVI OPTION ONLY)
CR19B	LOW VOLTAGE INTERRUPT/BCI RELAY B (LVI OPTION ONLY)
DP1	DRIVE JOYSTICK
L1	DRIVE ENABLE LED
L3	CONTROLLER FAULT LED
LVI	LOW VOLTAGE INTERRUPT MODULE
LVI/BCI	BATTERY CHARGE INDICATOR FOR LVI OPTION
P2	EMERGENCY STOP #2
P3	HORN
T1	TIME DELAY #1
TS1	AUXILIARY SWITCH
TS2	START ENGINE SWITCH (BI-ENERGY ONLY)
TS4	HIGH / LOW RPM SWITCH (BI-ENERGY ONLY)
TS6	GLOW PLUG SWITCH (BI-ENERGY ONLY)
TS7	PLATFORM ROTATE SWITCH
TS8	JIB UP / DOWN SWITCH (JIB ONLY)
TS9	PLATFORM LEVEL SWITCH
TS10	SECONDARY BOOM SWITCH
TS11	PRIMARY BOOM UP / DOWN SWITCH
TS12	TURNABLE ROTATE SWITCH
TS13	PRIMARY BOOM EXTEND / RETRACT SWITCH
TS14	DRIVE RANGE HIGH / LOW SWITCH
TS15	DRIVE ENABLE SWITCH

NOTE: ALL WIRES WITHOUT LABELS ARE
EITHER RED OR BLACK JUMPER WIRES.
FOR LIFT DRIVE SELECTOR OPTION
TAKE OFF JUMP BETWEEN 6 & 7

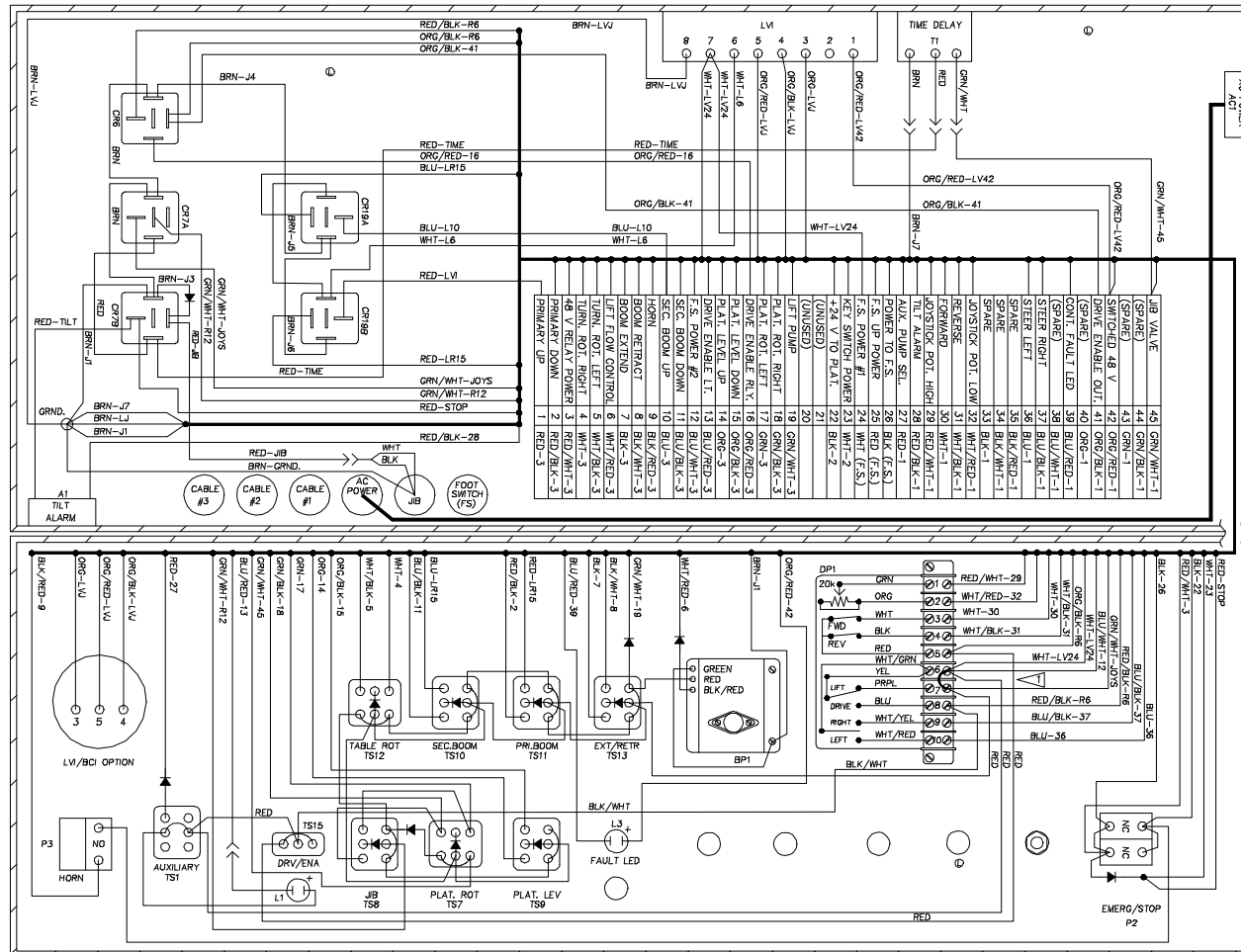
Z45/25 DC
PLATFORM CONTROL BOX LEGEND
WITH LOW VOLTAGE INDICATOR/BCI
WITH JIB

COMPONENT INDEX

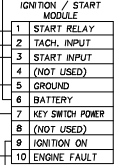
A1	TILT ALARM
AC1	AC OUTLET BOX
BCI	BATTERY CHARGE INDICATOR
BP1	ROTARY FLOW CONTROL DIAL
CR6	DRIVE ENABLE RELAY
CR7A	JIB CUTOFF RELAY
CR7B	JIB VALVE RELAY
CR19A	LOW VOLTAGE INTERRUPT/BCI RELAY A (L.V. OPTION ONLY)
CR19B	LOW VOLTAGE INTERRUPT/BCI RELAY B (L.V. OPTION ONLY)
DP1	DRIVE JOYSTICK
L1	DRIVE ENABLE LED
L3	CONTROLLER FAULT LED
LV1	LOW VOLTAGE INTERRUPT MODULE
LV1/BCI	BATTERY CHARGE INDICATOR FOR LV1 OPTION
P2	EMERGENCY STOP #2
P3	HORN
TI	TIME DELAY #1
TS1	AUXILIARY SWITCH
TS2	START ENGINE SWITCH (BI-ENERGY ONLY)
TS4	HIGH / LOW RPM SWITCH (BI-ENERGY ONLY)
TS6	GLOW PLUG SWITCH (BI-ENERGY ONLY)
TS7	PLATFORM ROTATE SWITCH
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TS13	PRIMARY BOOM EXTEND / RETRACT SWITCH
TS14	DRIVE RANGE HIGH / LOW SWITCH
TS15	DRIVE ENABLE SWITCH

NOTE: ALL WIRES WITHOUT LABELS ARE
EITHER RED OR BLACK JUMPER WIRES.

FOR LIFT DRIVE SELECTOR OPTION
TAKE OFF JUMP BETWEEN 6 & 7



RED/WHI-29
WHI/RED-32
WHI-30
WHI/BLK-31

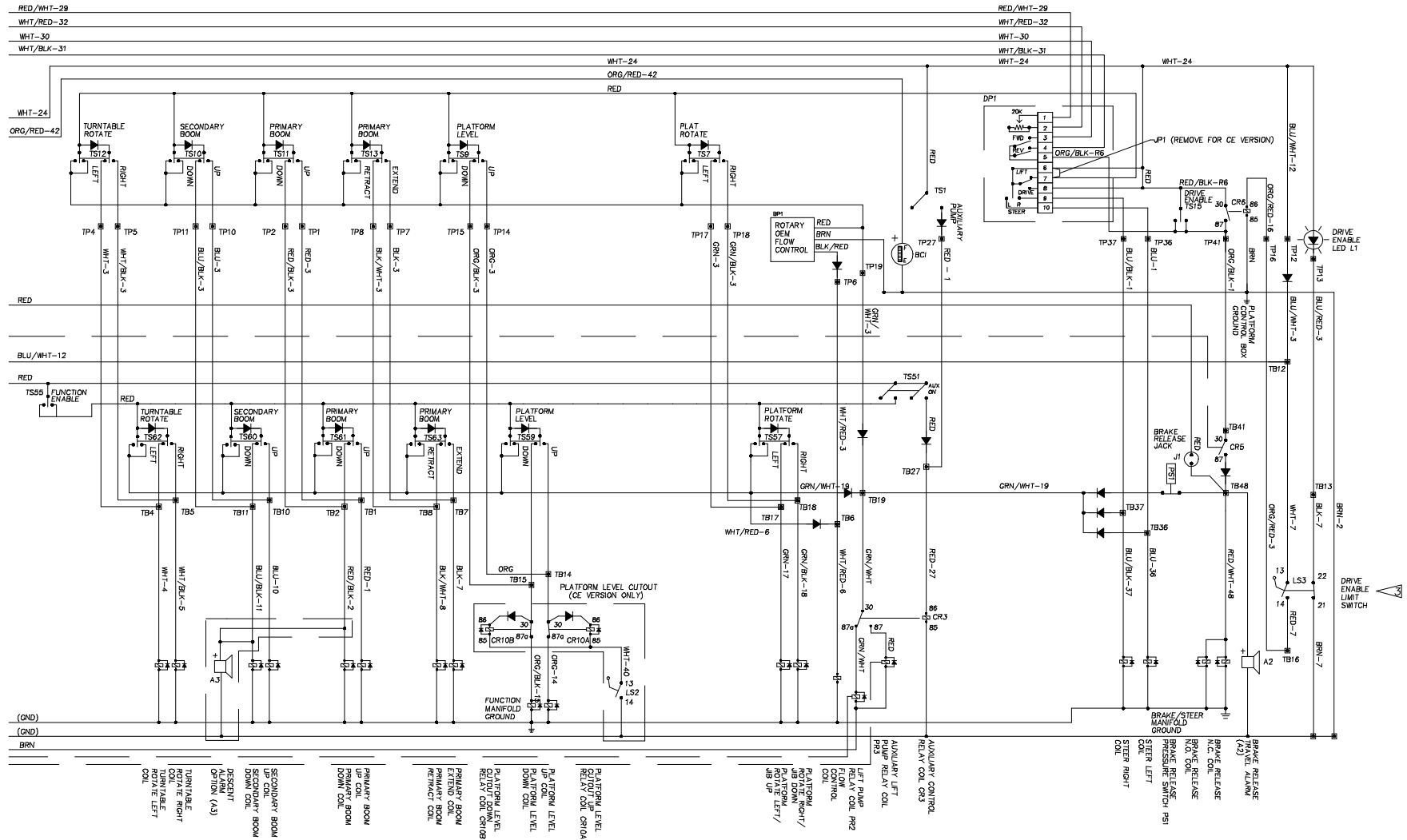


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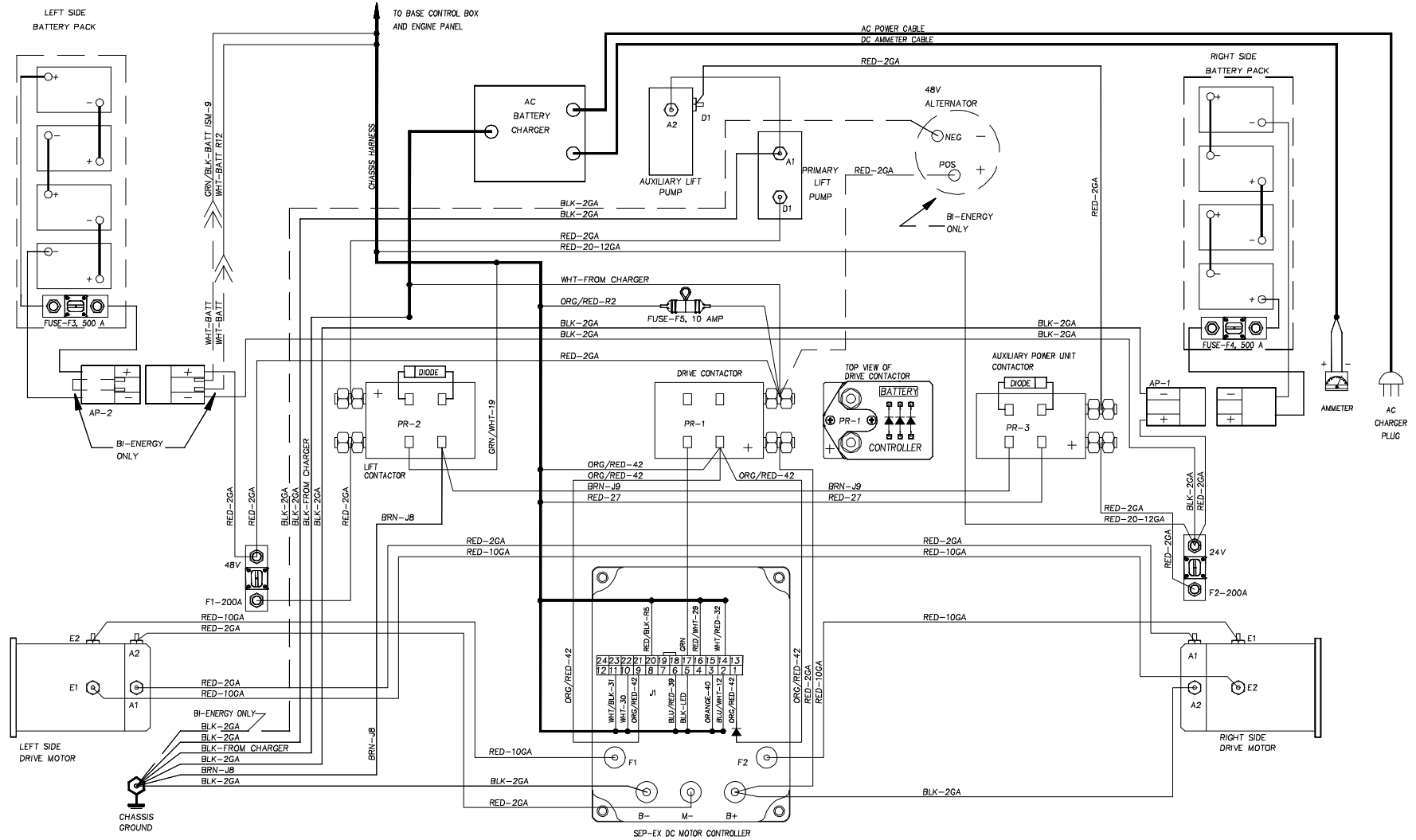
LOAD SENSE OPTION

Z45/25 BI-ENERGY
ELECTRICAL SCHEMATIC (cont'd)
WITH NONJIB



- NOTES:
1. ALL LIMIT SWITCHES SHOWN WITH BOOM IN STOWED POSITION EXCEPT AS NOTED.
 2. SWITCH SHOWN WITH BOOM EXTENDED.
 3. SWITCH SHOWN WITH BOOM ROTATED PAST EITHER NON-STEER WHEEL.
 4. ALL SOLENOID AND RELAY COILS ARE 24VDC EXCEPT WHERE NOTED.

Z45/25 BI-ENERGY
ELECTRICAL CONNECTION DIAGRAM
POWER PANEL
WITH JIB/NONJIB

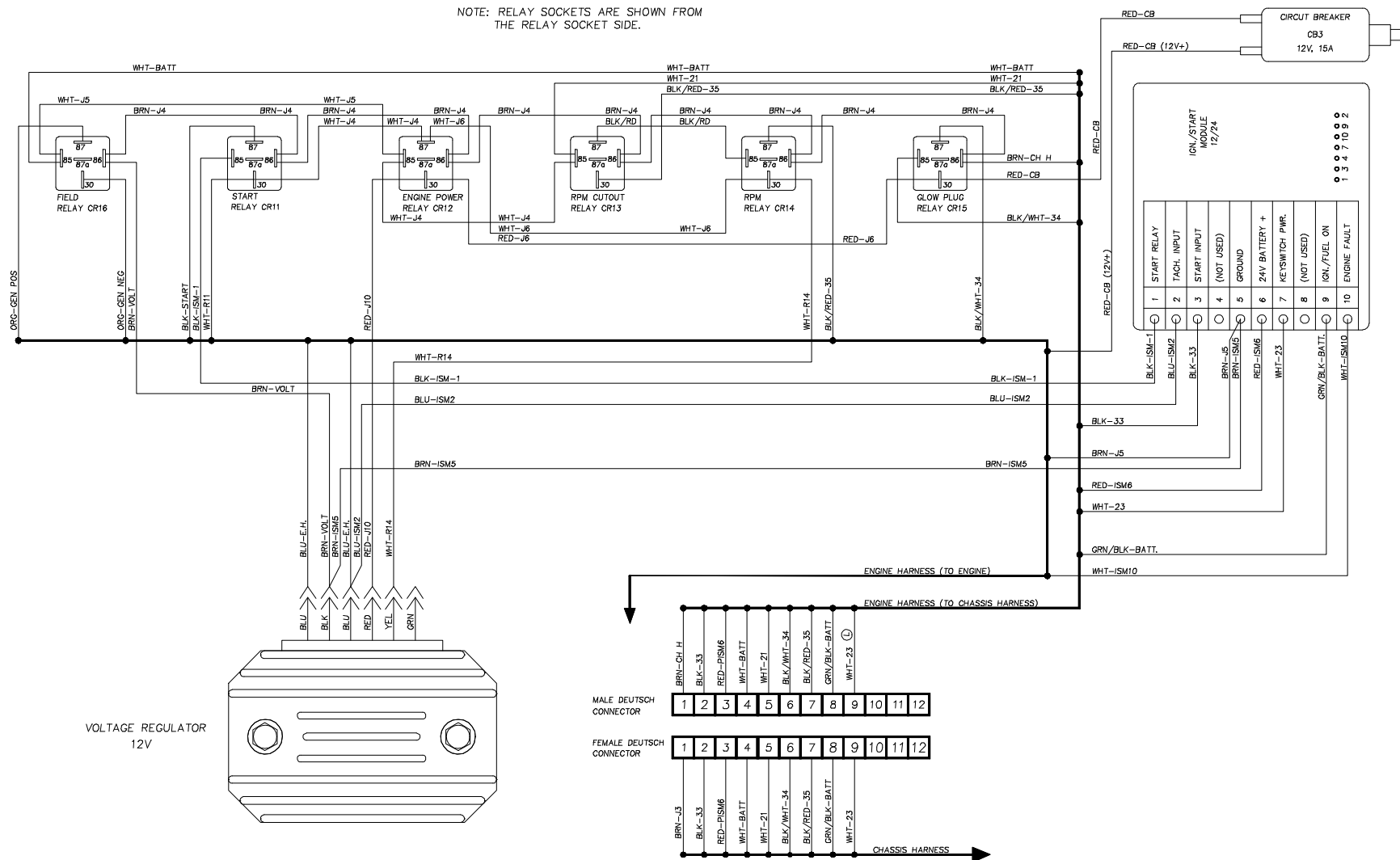


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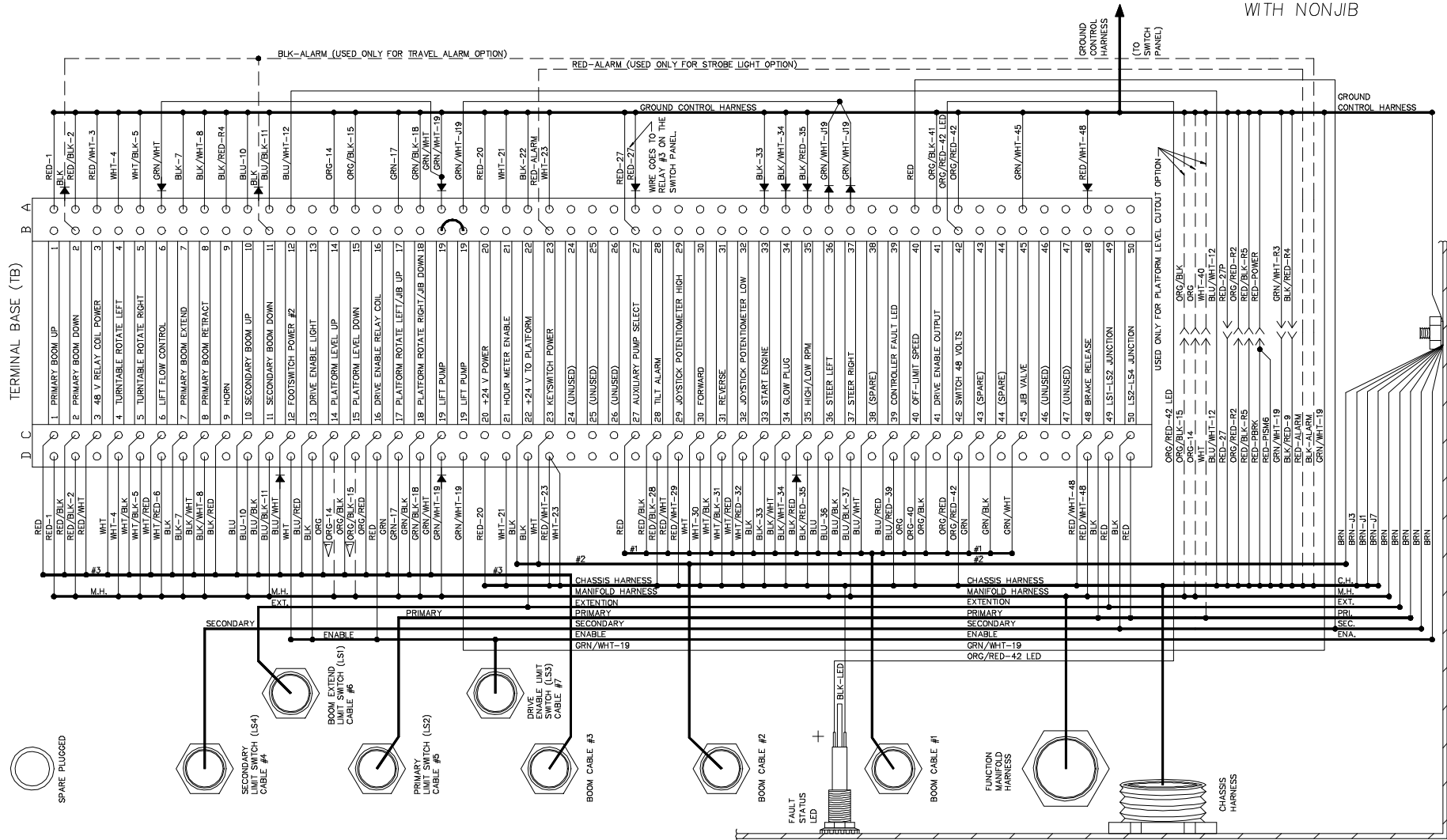
1. ALL WIRE IS 16 GAUGE UNLESS OTHERWISE SPECIFIED
2. DRAWINGS FOR THE JIB AND NON-JIB OPTIONS ARE THE SAME.

Z45/25 BI-ENERGY
ELECTRICAL CONNECTION DIAGRAM
ENGINE PANEL
WITH JIB/NONJIB

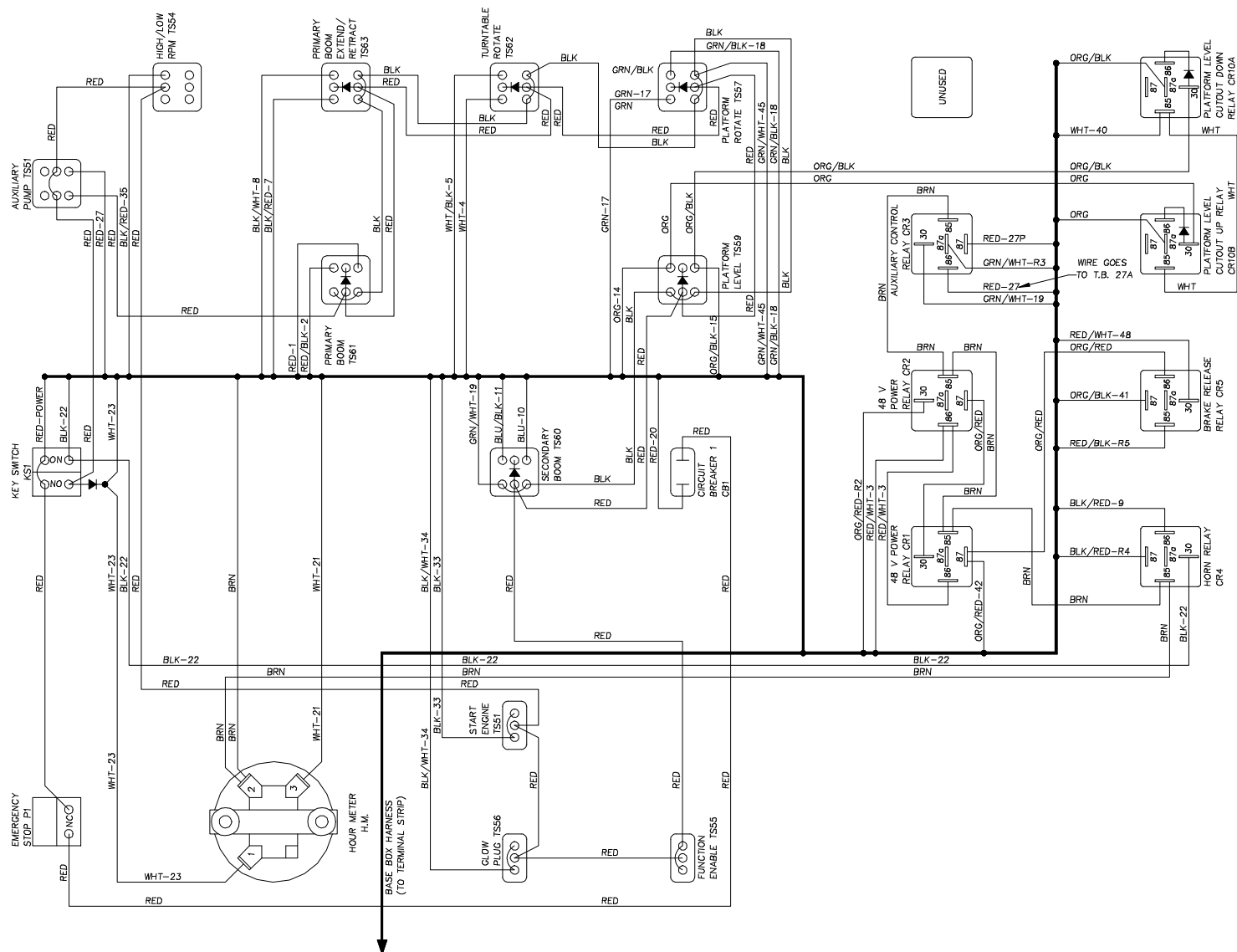
NOTE: RELAY SOCKETS ARE SHOWN FROM THE RELAY SOCKET SIDE.



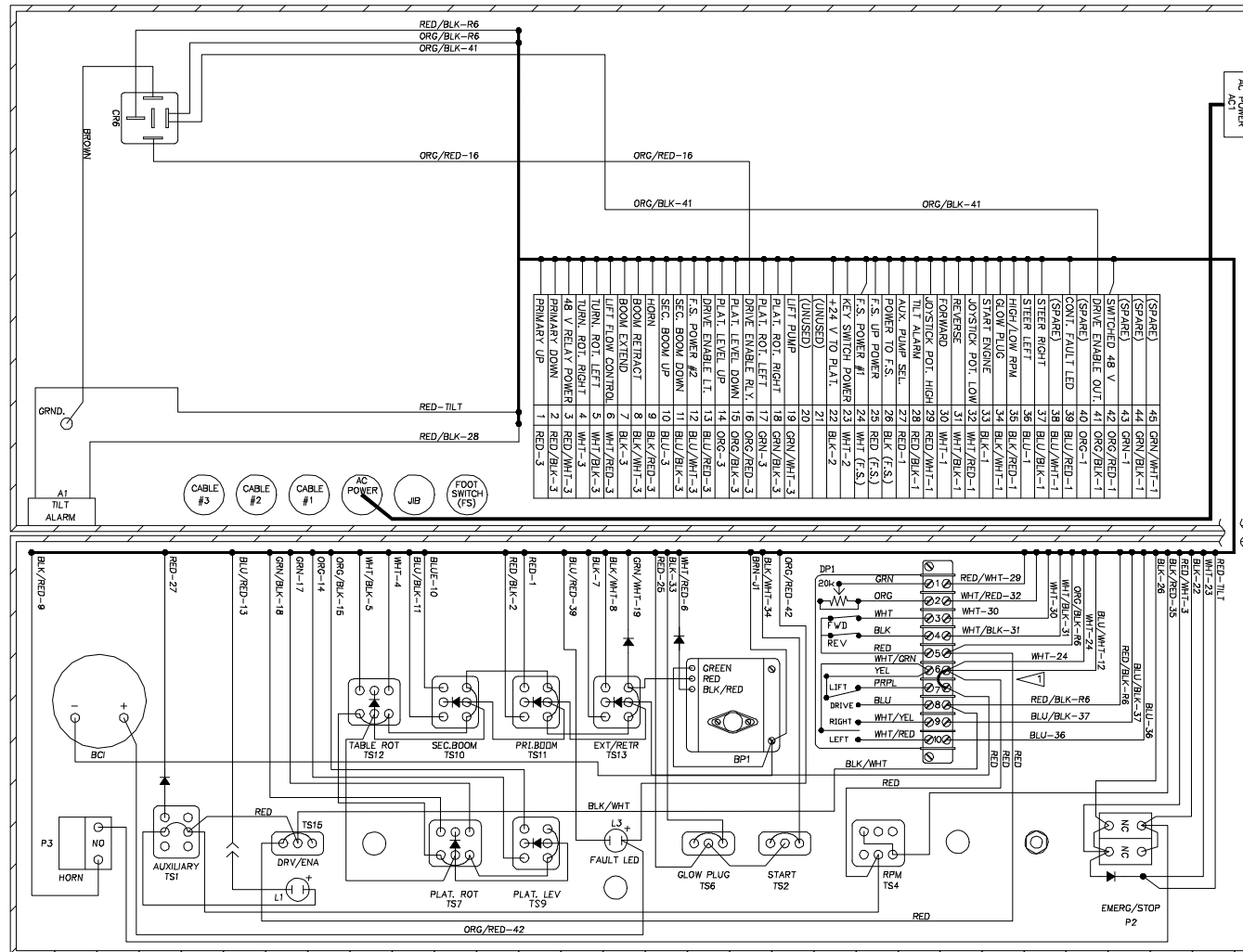
Z45/25 BI-ENERGY
GROUND CONTROL BOX LEGEND
CONNECTION STRIP
WITH NONJIB



Z45/25 BI-ENERGY
GROUND CONTROL BOX LEGEND
SWITCH PANEL
WITH NONJIB



Z45/25 BI-ENERGY PLATFORM CONTROL BOX LEGEND WITH NONJIB



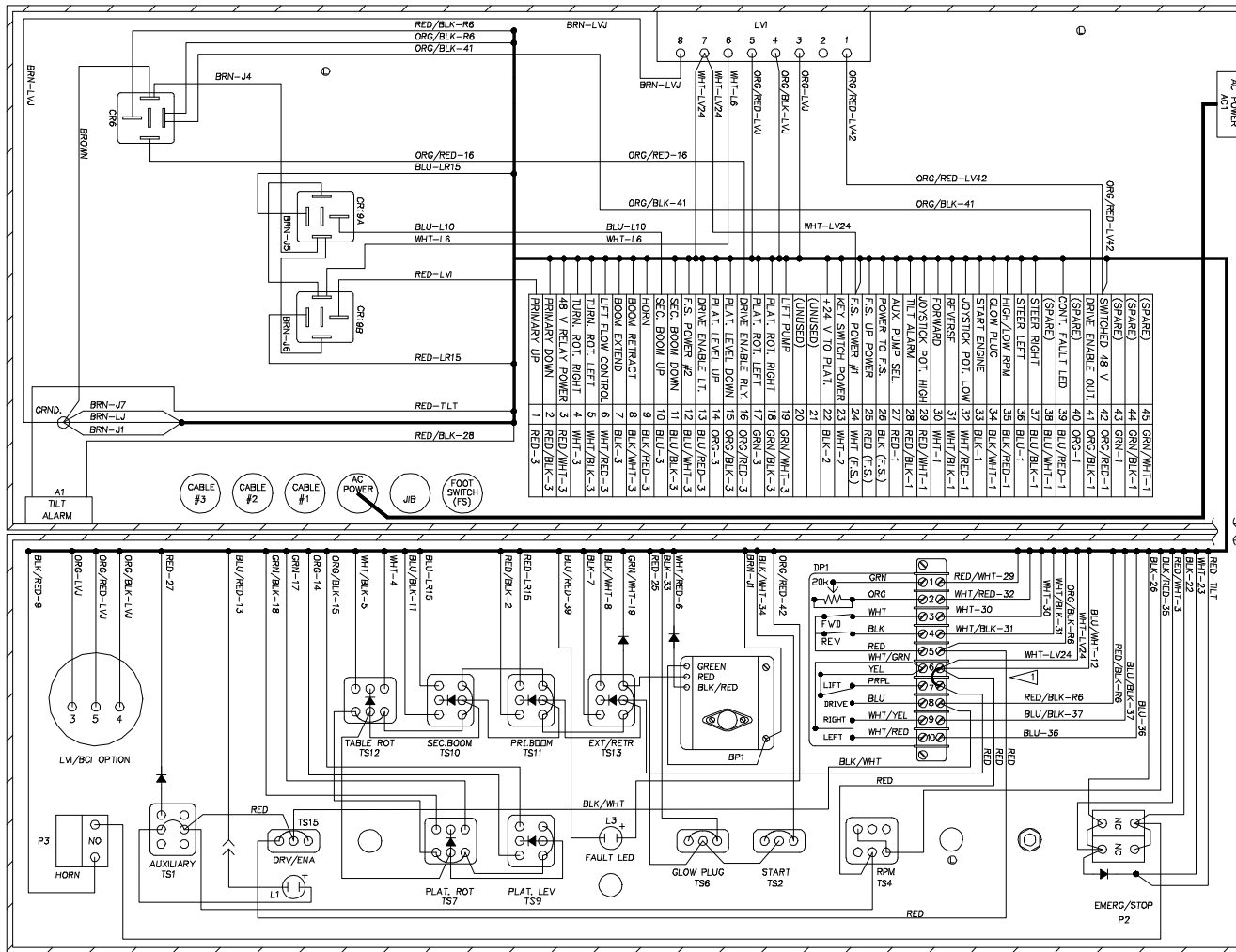
COMPONENT INDEX

A1	TILT ALARM
AC1	AC OUTLET BOX
BCI	BATTERY CHARGE INDICATOR
BP1	ROTARY FLOW CONTROL DIAL
CR6	DRIVE ENABLE RELAY
CR7A	JIB CUTOFF RELAY
CR7B	JIB VALVE RELAY
CR19A	LOW VOLTAGE INTERRUPT/BCI RELAY A (LVI OPTION ONLY)
CR19B	LOW VOLTAGE INTERRUPT/BCI RELAY B (LVI OPTION ONLY)
DP1	DRIVE JOYSTICK
L1	DRIVE ENABLE LED
L3	CONTROLLER FAULT LED
LVI	LOW VOLTAGE INTERRUPT MODULE
LVI/BCI	BATTERY CHARGE INDICATOR FOR LVI OPTION
P2	EMERGENCY STOP #2
P3	HORN
T1	TIME DELAY #1
TS1	AUXILIARY SWITCH
TS2	START ENGINE SWITCH (BI-ENERGY ONLY)
TS4	HIGH / LOW RPM SWITCH (BI-ENERGY ONLY)
TS6	GLOW PLUG SWITCH (BI-ENERGY ONLY)
TS7	PLATFORM ROTATE SWITCH
TS8	JIB UP / DOWN SWITCH (JIB ONLY)
TS9	PLATFORM LEVEL SWITCH
TS10	SECONDARY BOOM SWITCH
TS11	PRIMARY BOOM UP / DOWN SWITCH
TS12	TURNTABLE ROTATE SWITCH
TS13	PRIMARY BOOM EXTEND / RETRACT SWITCH
TS14	DRIVE RANGE HIGH / LOW SWITCH
TS15	DRIVE ENABLE SWITCH

NOTE: ALL WIRES WITHOUT LABELS ARE
EITHER RED OR BLACK JUMPER WIRES.

FOR LIFT DRIVE SELECTOR OPTION
TAKE OFF JUMP BETWEEN 6 & 7

Z45/25 BI-ENERGY
PLATFORM CONTROL BOX
WITH LOW VOLTAGE INDICATOR/BCI
WITH NONJIB



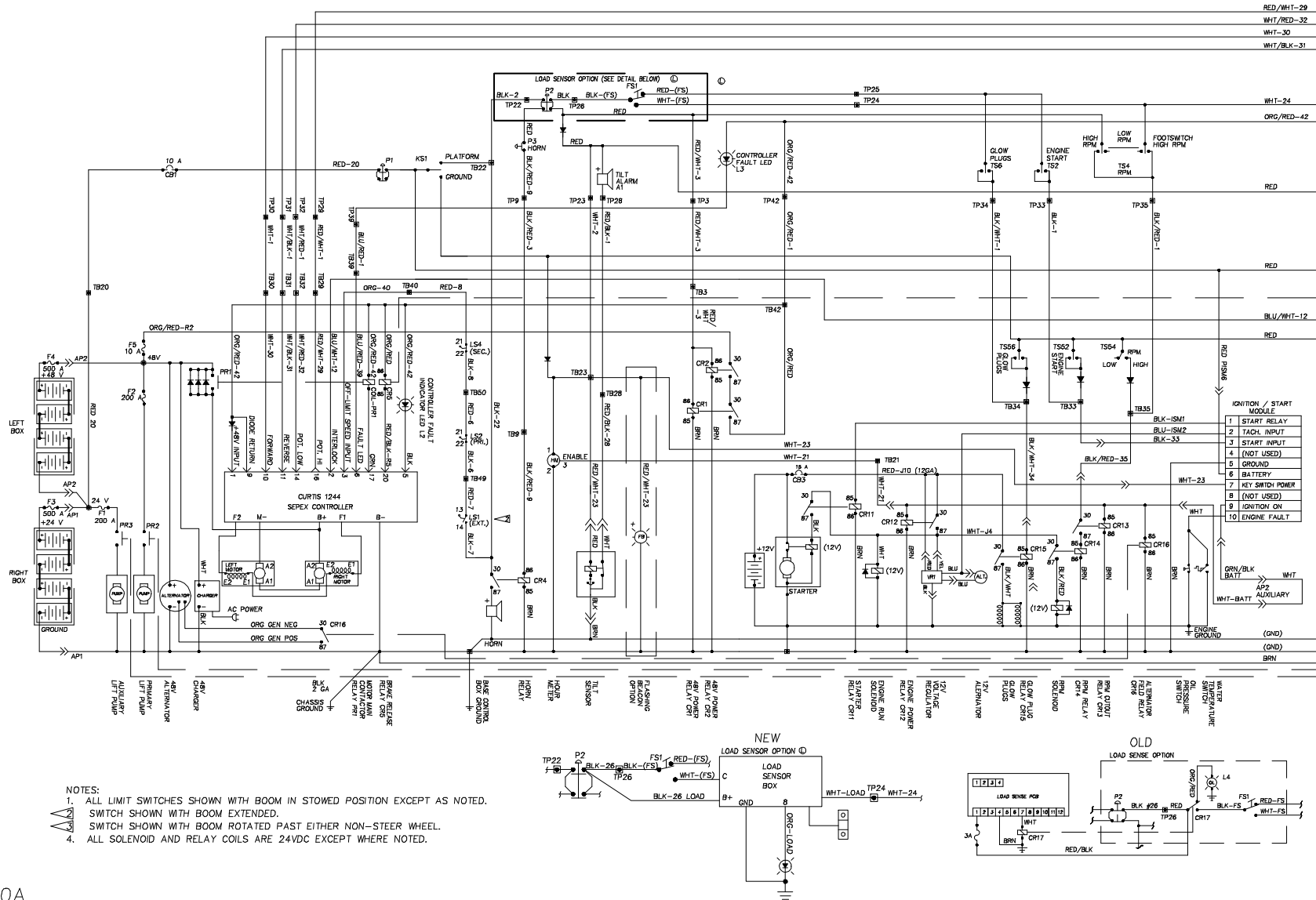
COMPONENT INDEX

A1	TILT ALARM
AC1	AC OUTLET BOX
BCI	BATTERY CHARGE INDICATOR
BP1	ROTARY FLOW CONTROL DIAL
CR6	DRIVE ENABLE RELAY
CR7A	JIB CUTOFF RELAY
CR7B	JIB VALVE RELAY
CR19A	LOW VOLTAGE INTERRUPT/BCI RELAY A (LVI OPTION ONLY)
CR19B	LOW VOLTAGE INTERRUPT/BCI RELAY B (LVI OPTION ONLY)
DP1	DRIVE JOYSTICK
L1	DRIVE ENABLE LED
L3	CONTROLLER FAULT LED
LVI	LOW VOLTAGE INTERRUPT MODULE
LVI/BCI	BATTERY CHARGE INDICATOR FOR LVI OPTION
P2	EMERGENCY STOP #2
P3	HORN
T1	TIME DELAY #1
TS1	AUXILIARY SWITCH
TS2	START ENGINE SWITCH (BI-ENERGY ONLY)
TS4	HIGH / LOW RPM SWITCH (BI-ENERGY ONLY)
TS6	GLOW PLUG SWITCH (BI-ENERGY ONLY)
TS7	PLATFORM ROTATE SWITCH
TS8	JIB UP / DOWN SWITCH (JIB ONLY)
TS9	PLATFORM LEVEL SWITCH
TS10	SECONDARY BOOM SWITCH
TS11	PRIMARY BOOM UP / DOWN SWITCH
TS12	TURNABLE ROTATE SWITCH
TS13	PRIMARY BOOM EXTEND / RETRACT SWITCH
TS14	DRIVE RANGE HIGH / LOW SWITCH
TS15	DRIVE ENABLE SWITCH

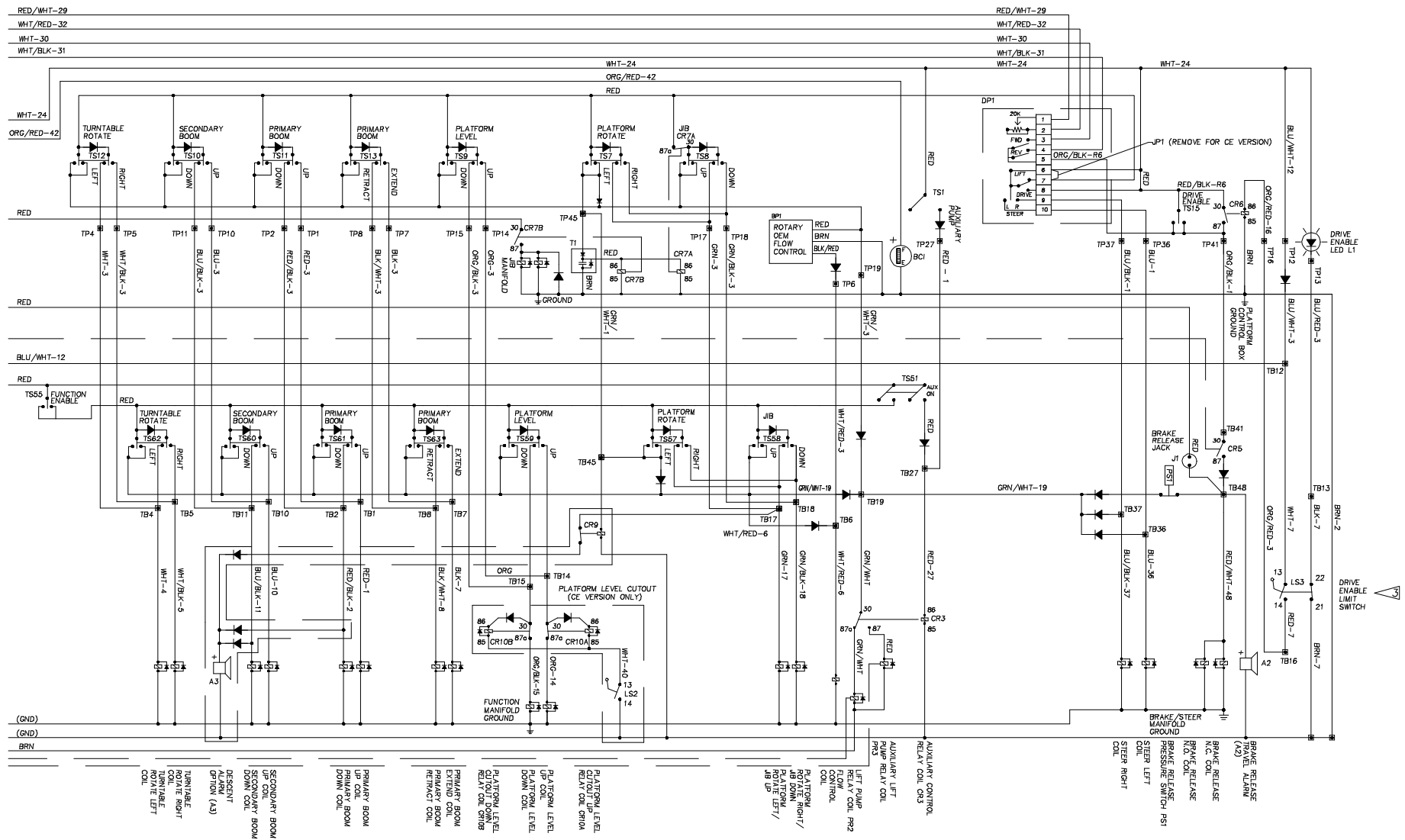
NOTE: ALL WIRES WITHOUT LABELS ARE
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FOR LIFT DRIVE SELECTOR OPTION
TAKE OFF JUMP BETWEEN 6 & 7

Z45/25 BI-ENERGY ELECTRICAL SCHEMATIC WITH JIB

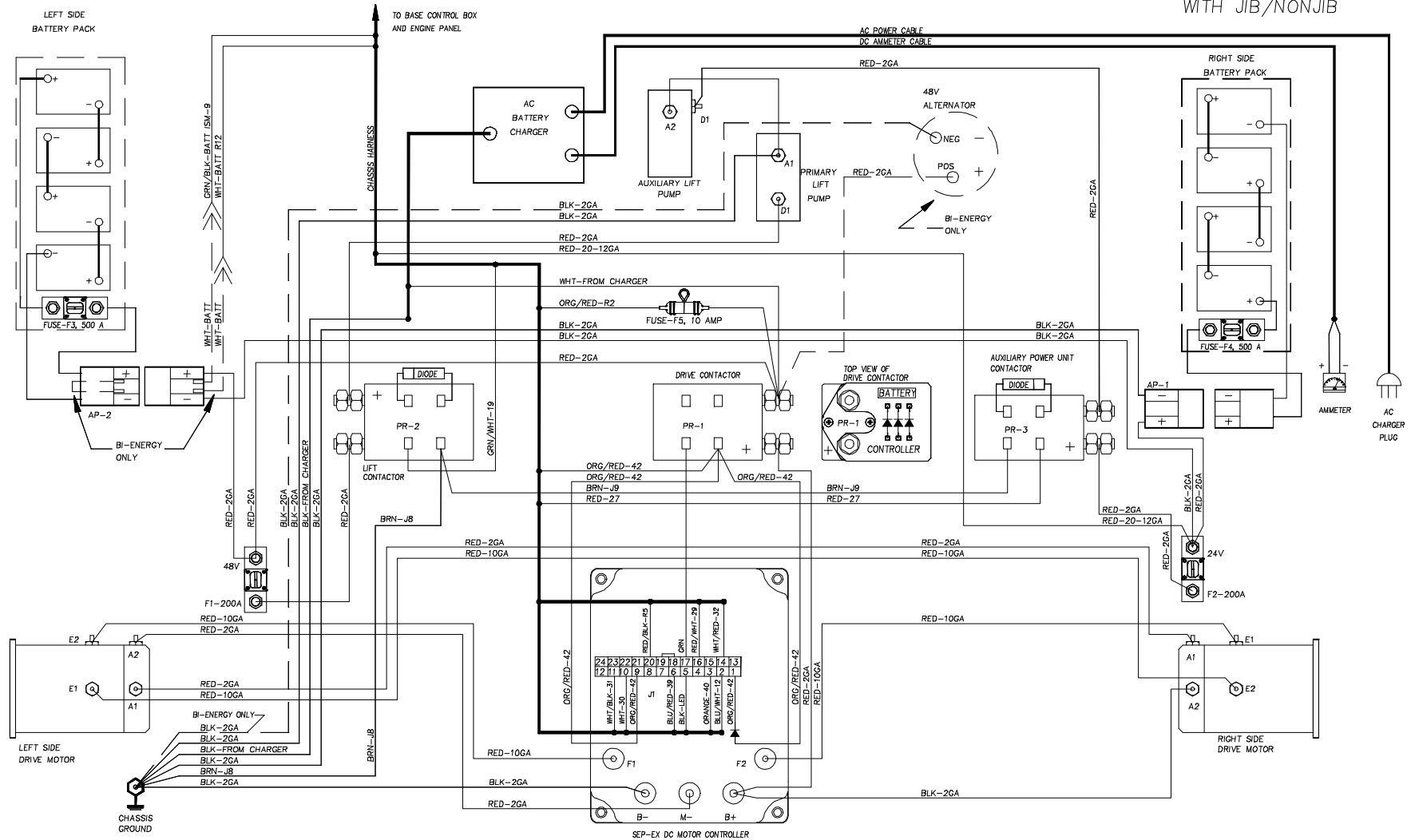


Z45/25 BI-ENERGY
ELECTRICAL SCHEMATIC (cont'd)
WITH JIB



- NOTES:
1. ALL LIMIT SWITCHES SHOWN WITH BOOM IN STOWED POSITION EXCEPT AS NOTED.
 2. SWITCH SHOWN WITH BOOM EXTENDED.
 3. SWITCH SHOWN WITH BOOM ROTATED PAST EITHER NON-STEER WHEEL.
 4. ALL SOLENOID AND RELAY COILS ARE 24VDC EXCEPT WHERE NOTED.

Z45/25 BI-ENERGY
ELECTRICAL CONNECTION DIAGRAM
POWER PANEL
WITH JIB/NONJIB

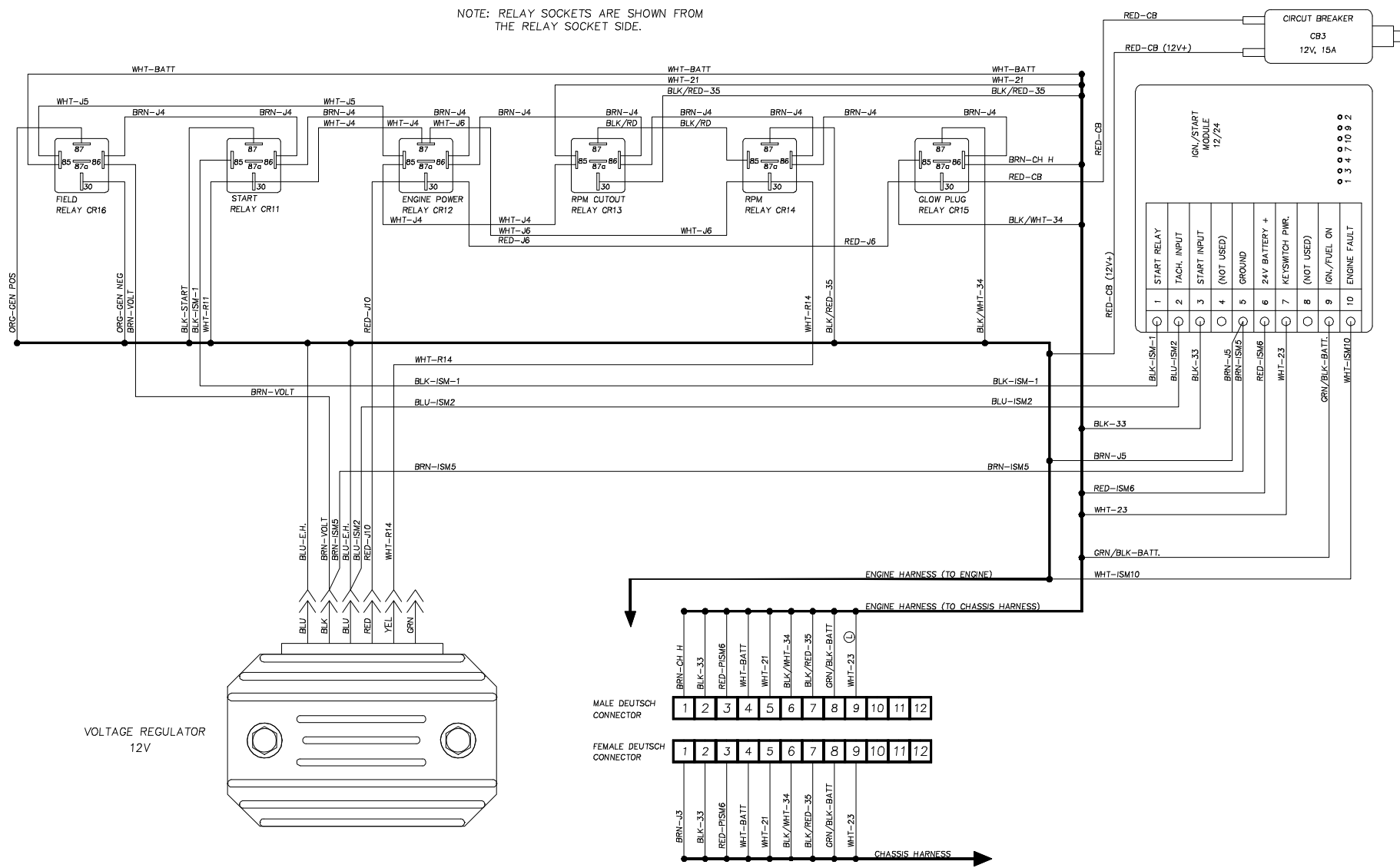


NOTES:

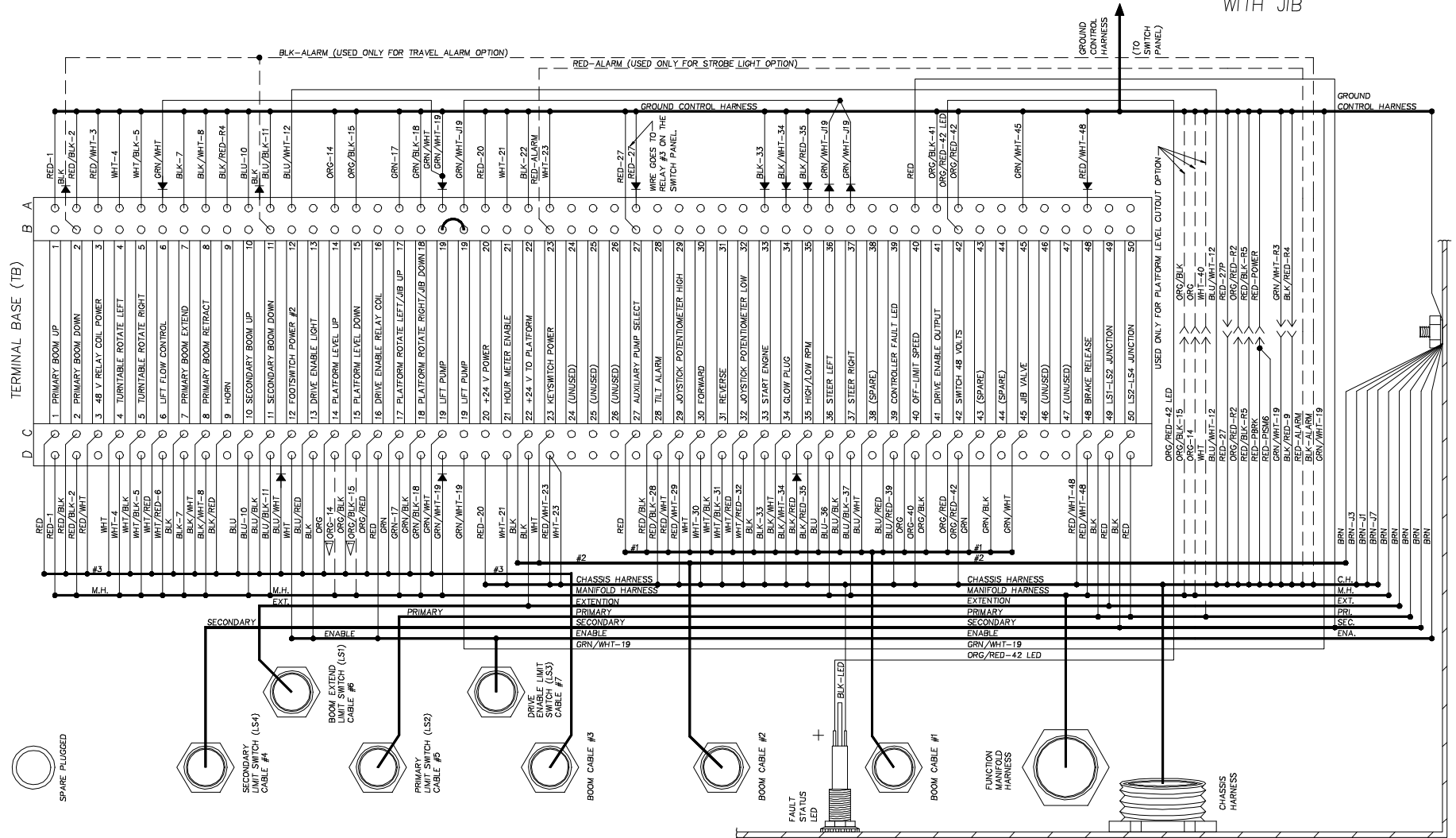
1. ALL WIRE IS 16 GAUGE UNLESS OTHERWISE SPECIFIED
2. DRAWINGS FOR THE JIB AND NON-JIB OPTIONS ARE THE SAME.

Z45/25 BI-ENERGY ELECTRICAL CONNECTION DIAGRAM ENGINE PANEL WITH JIB/NONJIB

NOTE: RELAY SOCKETS ARE SHOWN FROM
THE RELAY SOCKET SIDE.

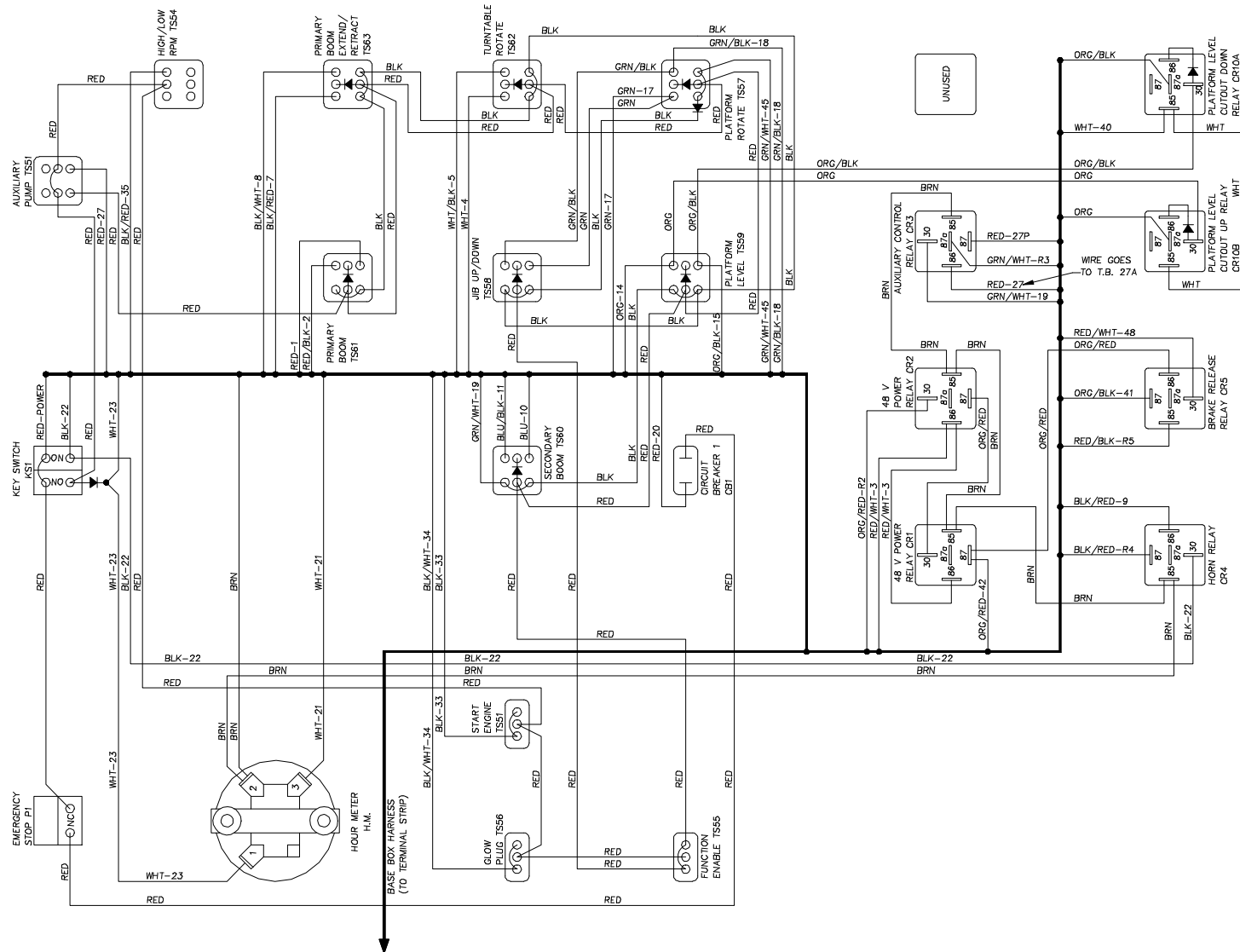


Z45/25 BI-ENERGY
GROUND CONTROL BOX LEGEND
CONNECTION STRIP
WITH JIB

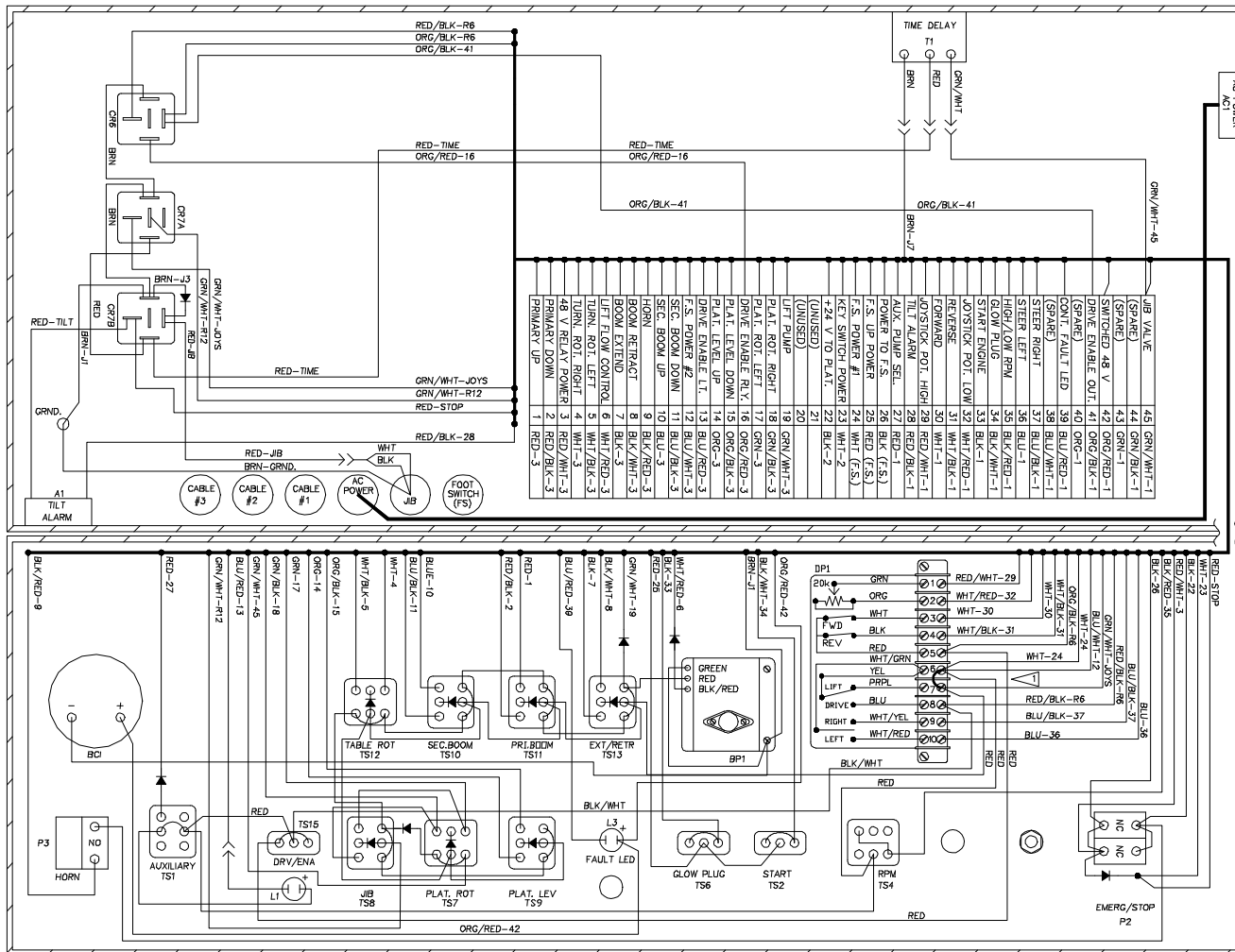


NOTES:
▲ NOT USED FOR PLATFORM LEVEL CUTOUT OPTION

Z45/25 BI-ENERGY GROUND CONTROL BOX LEGEND SWITCH PANEL WITH JIB



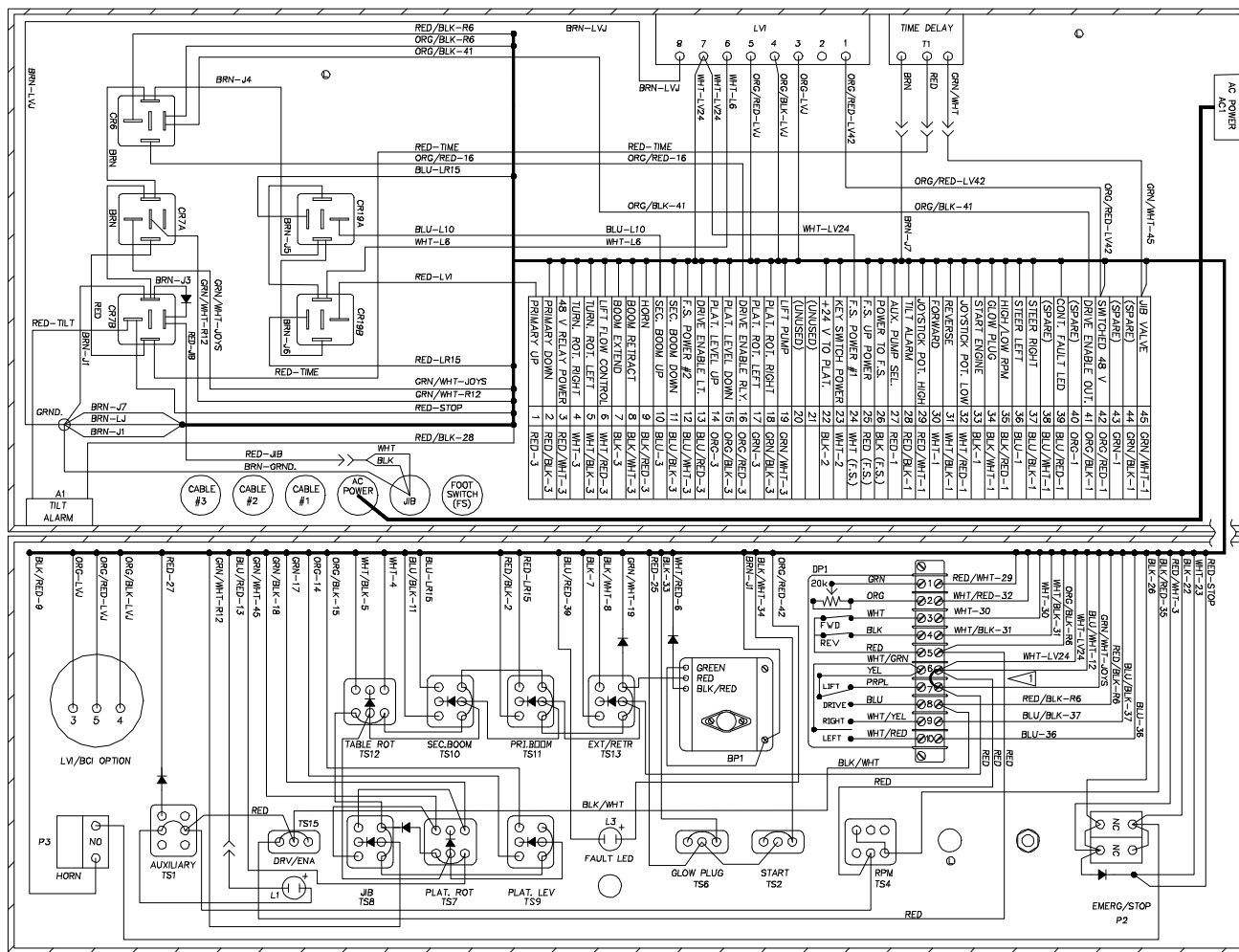
Z45/25 BI-ENERGY PLATFORM CONTROL BOX LEGEND WITH JIB



COMPONENT INDEX	
A1	TILT ALARM
AC1	AC OUTLET BOX
BCI	BATTERY CHARGE INDICATOR
BP1	ROTARY FLOW CONTROL DIAL
CR6	DRIVE ENABLE RELAY
CR7A	JIB CUTOFF RELAY
CR7B	JIB VALVE RELAY
CR19A	LOW VOLTAGE INTERRUPT/BCI RELAY A (LVI OPTION ONLY)
CR19B	LOW VOLTAGE INTERRUPT/BCI RELAY B (LVI OPTION ONLY)
DP1	DRIVE JOYSTICK
L1	DRIVE ENABLE LED
L3	CONTROLLER FAULT LED
LVI	LOW VOLTAGE INTERRUPT MODULE
LVI/BCI	BATTERY CHARGE INDICATOR FOR LVI OPTION
P2	EMERGENCY STOP #2
P3	HORN
T1	TIME DELAY #1
TS1	AUXILIARY SWITCH
TS2	START ENGINE SWITCH (BI-ENERGY ONLY)
TS4	HIGH / LOW RPM SWITCH (BI-ENERGY ONLY)
TS6	GLOW PLUG SWITCH (BI-ENERGY ONLY)
TS7	PLATFORM ROTATE SWITCH
TS8	JIB UP / DOWN SWITCH (JIB ONLY)
TS9	PLATFORM LEVEL SWITCH
TS10	SECONDARY BOOM SWITCH
TS11	PRIMARY BOOM UP / DOWN SWITCH
TS12	TURNABLE ROTATE SWITCH
TS13	PRIMARY BOOM EXTEND / RETRACT SWITCH
TS14	DRIVE RANGE HIGH / LOW SWITCH
TS15	DRIVE ENABLE SWITCH

NOTE: ALL WIRES WITHOUT LABELS ARE
EITHER RED OR BLACK JUMPER WIRES.
FOR LIFT DRIVE SELECTOR OPTION
TAKE OFF JUMP BETWEEN 6 & 7

Z45/25 BI-ENERGY
PLATFORM CONTROL BOX LEGEND
WITH LOW VOLTAGE INDICATOR/BCI
WITH JIB



COMPONENT INDEX

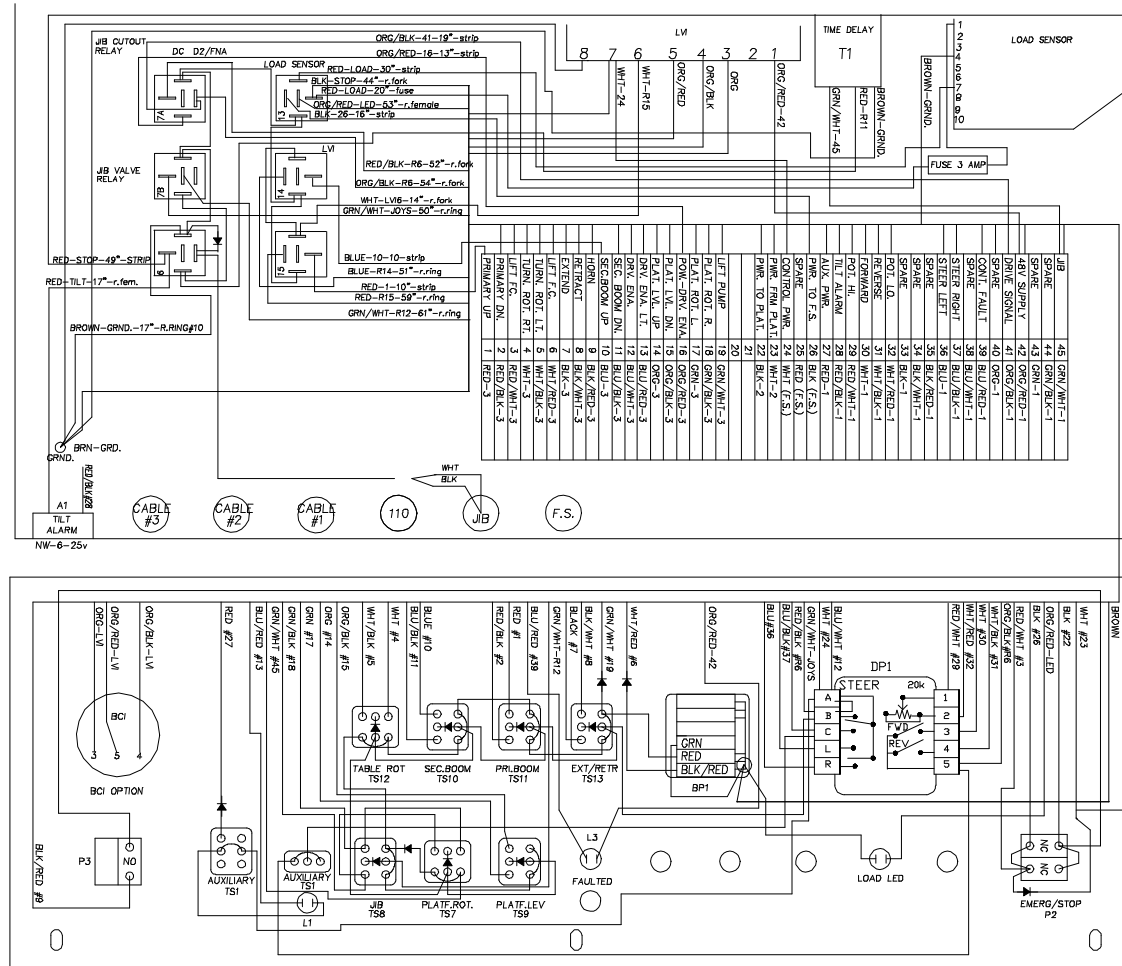
A1	TILT ALARM
AC1	AC OUTLET BOX
BCI	BATTERY CHARGE INDICATOR
BP1	ROTARY FLOW CONTROL DIAL
CR6	DRIVE ENABLE RELAY
CR7A	JIB CUTOFF RELAY
CR7B	JIB VALVE RELAY
CR19A	LOW VOLTAGE INTERRUPT/BCI RELAY A (LVI OPTION ONLY)
CR19B	LOW VOLTAGE INTERRUPT/BCI RELAY B (LVI OPTION ONLY)
DP1	DRIVE JOYSTICK
L1	DRIVE ENABLE LED
L3	CONTROLLER FAULT LED
LVI	LOW VOLTAGE INTERRUPT MODULE
P1/BCI	BATTERY CHARGE INDICATOR FOR LVI OPTION
P2	EMERGENCY STOP #2
P3	HORN
T1	TIME DELAY #1
TS1	AUXILIARY SWITCH
TS2	START ENGINE SWITCH (BI-ENERGY ONLY)
TS4	HIGH / LOW RPM SWITCH (BI-ENERGY ONLY)
TS6	GLOW PLUG SWITCH (BI-ENERGY ONLY)
TS7	PLATFORM ROTATE SWITCH
TS8	JIB UP / DOWN SWITCH (JIB ONLY)
TS9	PLATFORM LEVEL SWITCH
TS10	SECONDARY BOOM SWITCH
TS11	PRIMARY BOOM UP / DOWN SWITCH
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TS13	PRIMARY BOOM EXTEND / RETRACT SWITCH
TS14	DRIVE RANGE HIGH / LOW SWITCH
TS15	DRIVE ENABLE SWITCH

NOTE: ALL WIRES WITHOUT LABELS ARE
EITHER RED OR BLACK JUMPER WIRES.

1 FOR LIFT DRIVE SELECTOR OPTION
TAKE OFF JUMP BETWEEN 6 & 7

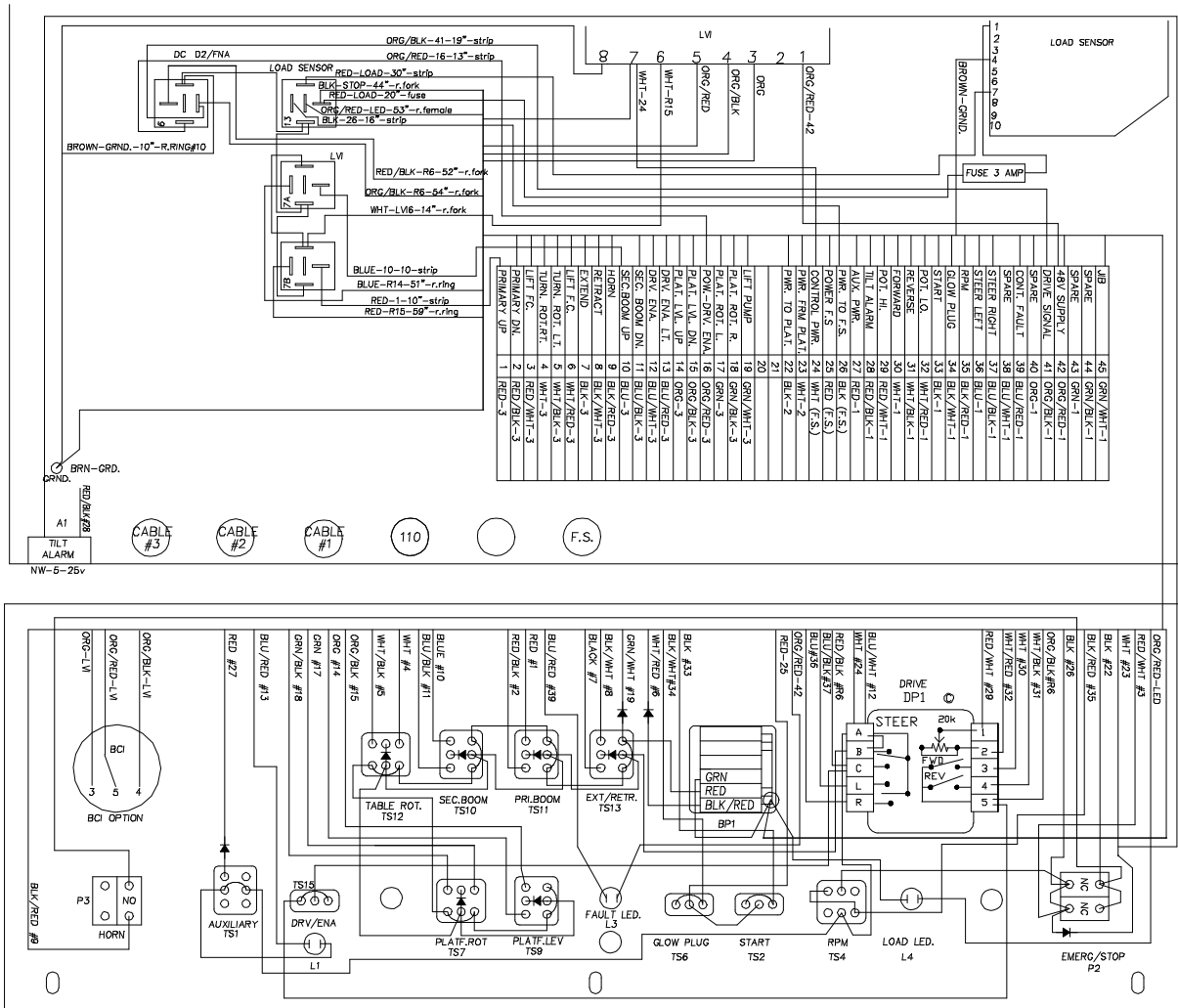
DWG. #E0257C08

Z45/25 DC
WIRING DIAGRAM
PLATFORM CONTROL BOX
LVI/BCI LOAD SENSOR (OLD)
WITH JIB



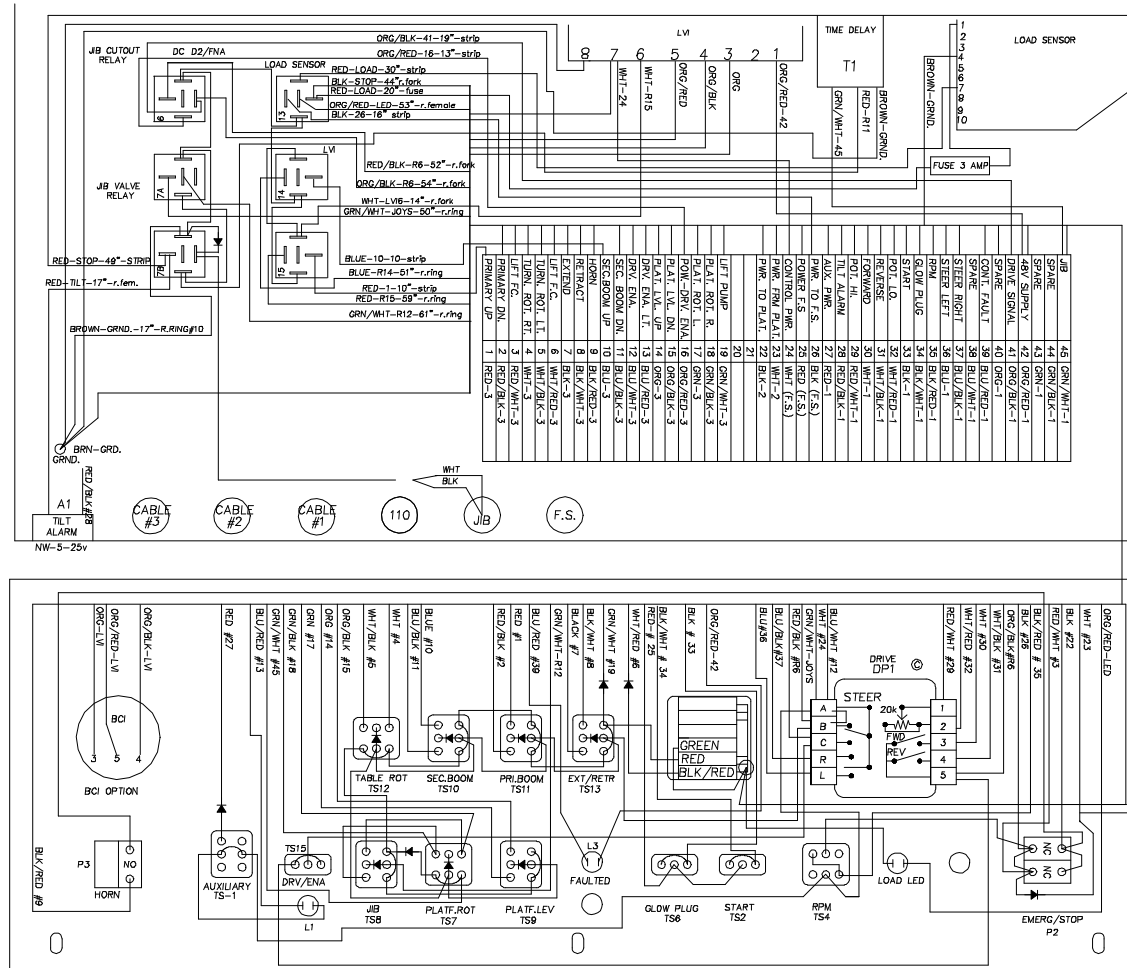
FOR LIFT DRIVE SELECTOR OPTION
TAKE OFF JUMP BETWEEN A & B

Z45/25 BI-ENERGY
WIRING DIAGRAM
PLATFORM CONTROL BOX
LVI/BCI LOAD SENSOR (OLD)
WITH NONJIB

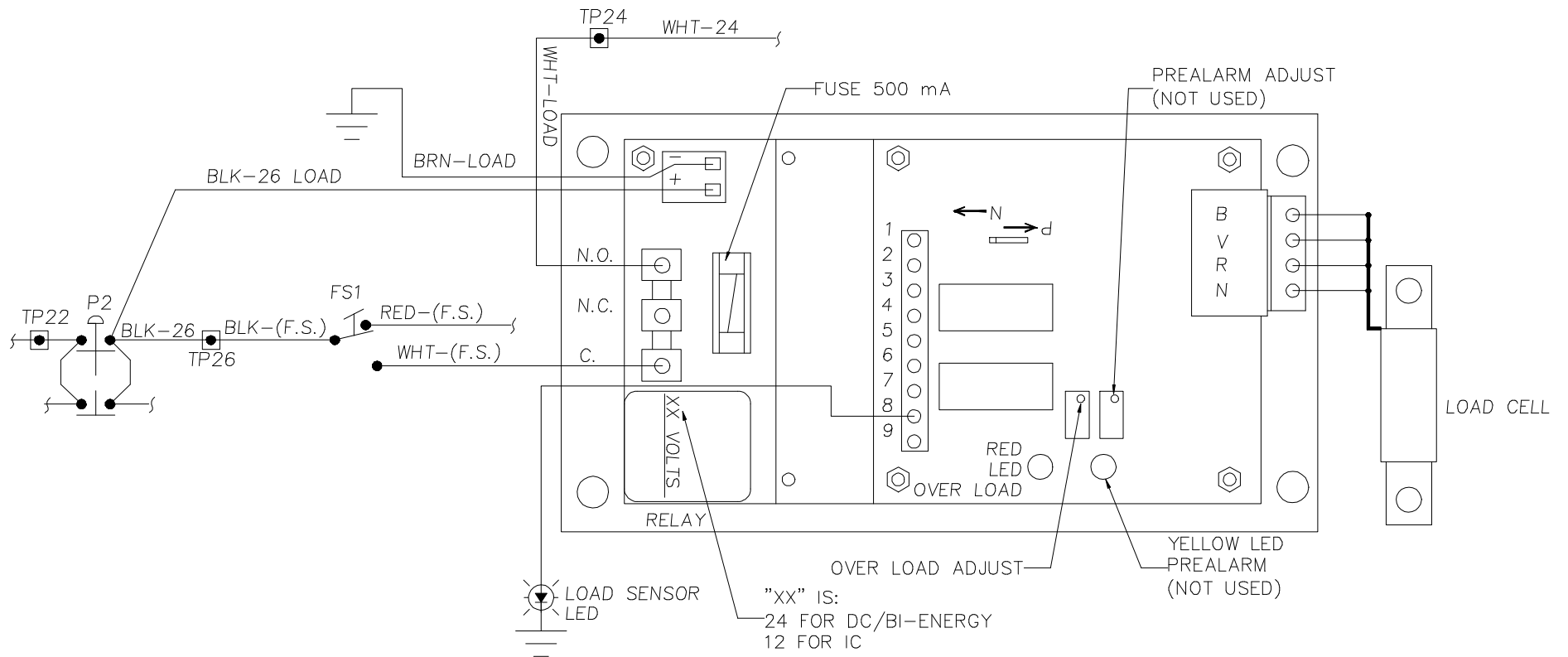


FOR LIFT DRIVE SELECTOR OPTION
TAKE OFF JUMP BETWEEN A & B

Z45/25 BI-ENERGY
WIRING DIAGRAM
PLATFORM CONTROL BOX LEGEND
LVI/BCI LOAD SENSOR (OLD)



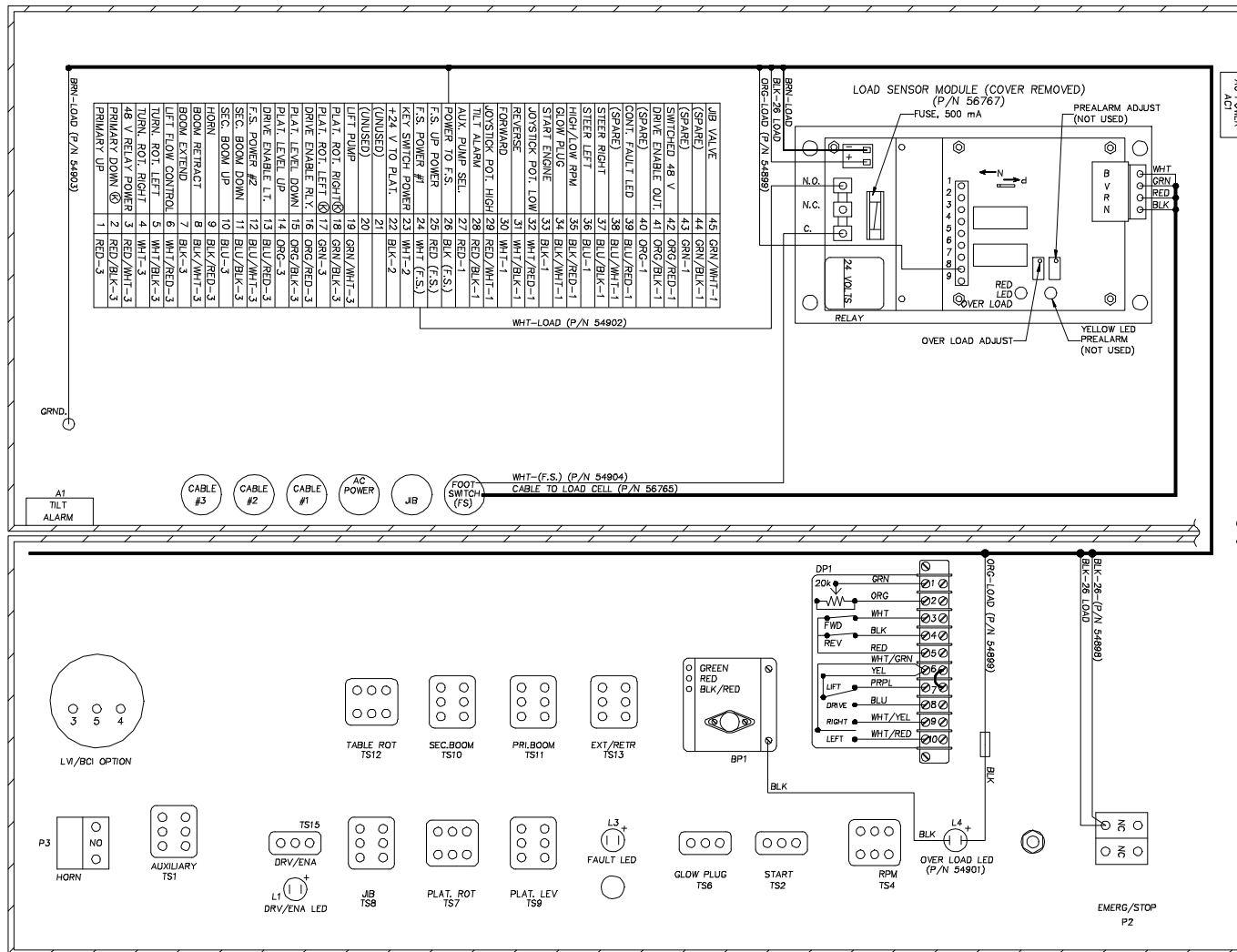
Z45/25 BI-ENERGY
ELECTRICAL SCHEMATIC
LOAD SENSE OPTION



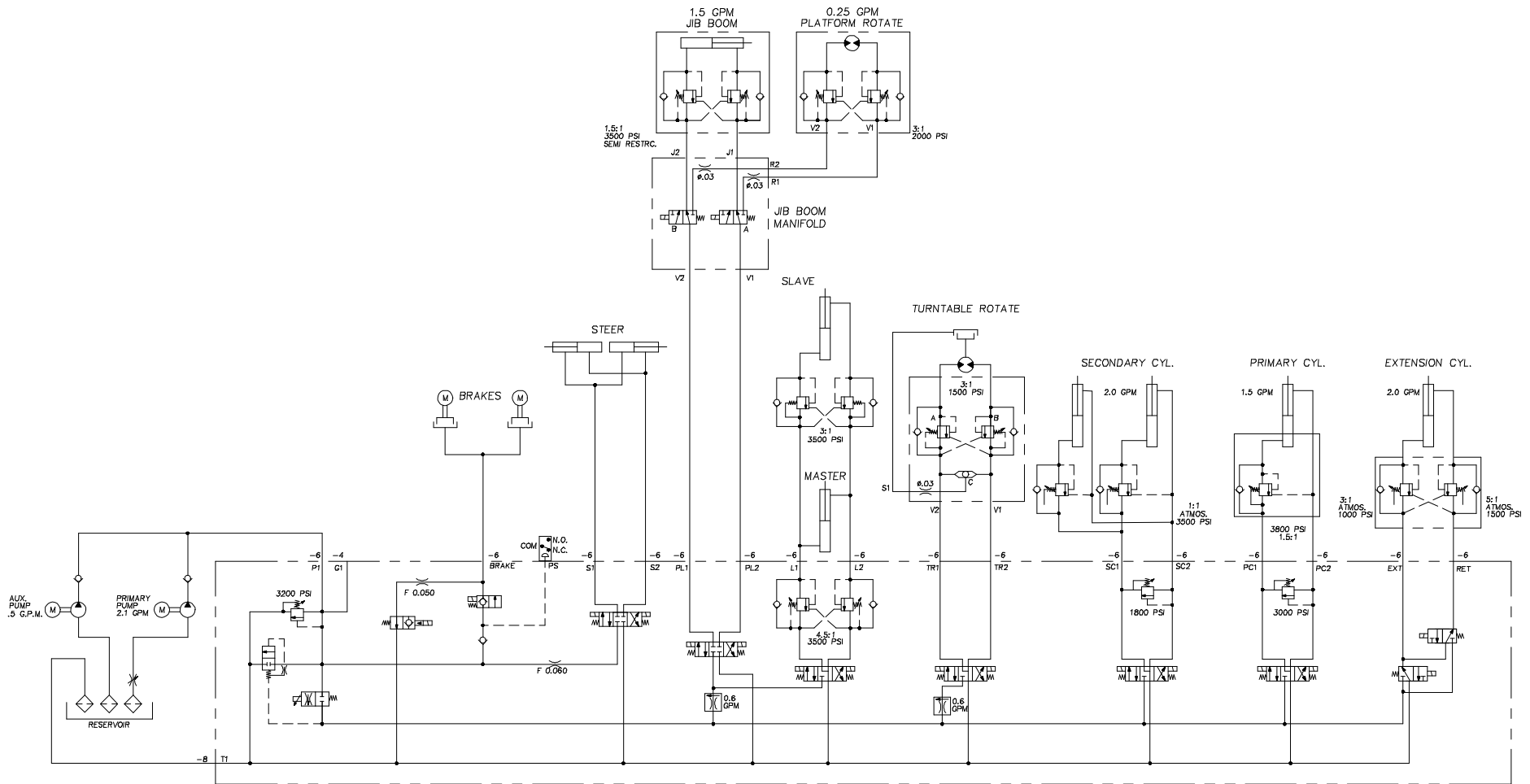
Z45/25 BI-ENERGY PLATFORM CONTROL BOX LEGEND LOAD SENSOR OPTION

BILL OF MATERIALS

PART NUMBER	DESCRIPTION
54898	WIRE ASSY PWR2FOOTSWITH/LDSENS
54899	WIRE ASSY LOADSENSE, ORANGE LED
54901	WIRE ASSY LOADSENSE LED
54902	WIRE ASSY LDSENSE/FS, WHITE JUMP
54903	WIRE ASSY LDSENSE, BROWN, GROUND
54904	WIRE ASSY FOOTSWITCH, SERV LOOP
48716	DECAL, LABEL, LOAD SENSOR
56765	LOAD CELL BENDING TYPE
56767	MODULE,LOAD SENSE,W/24V RELAY



Z45/25 BI-ENERGY HYDRAULIC SCHEMATIC



Z45/25 DC HYDRAULIC SCHEMATIC

