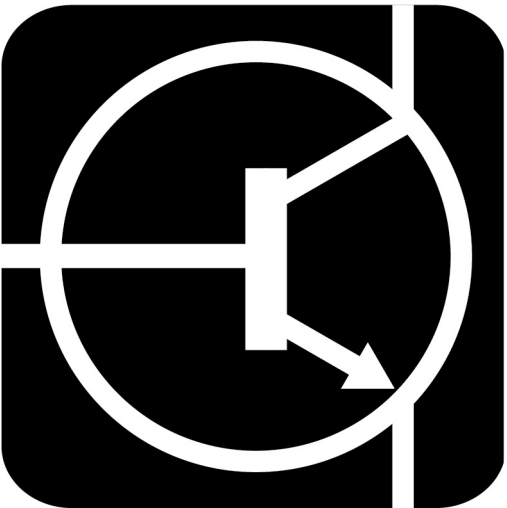




Models

**4150
4250**

Serial Numbers

30,000 and Up

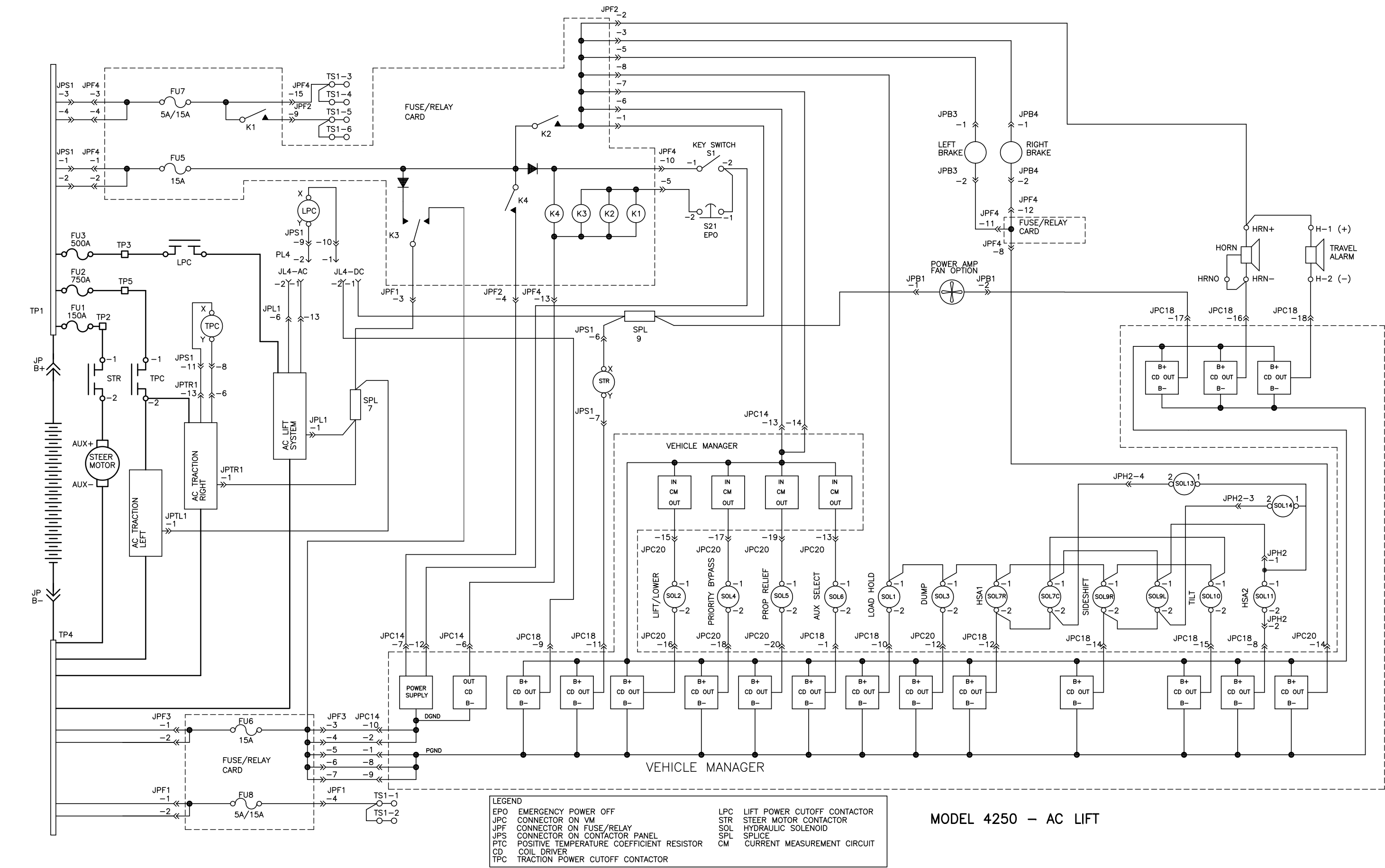
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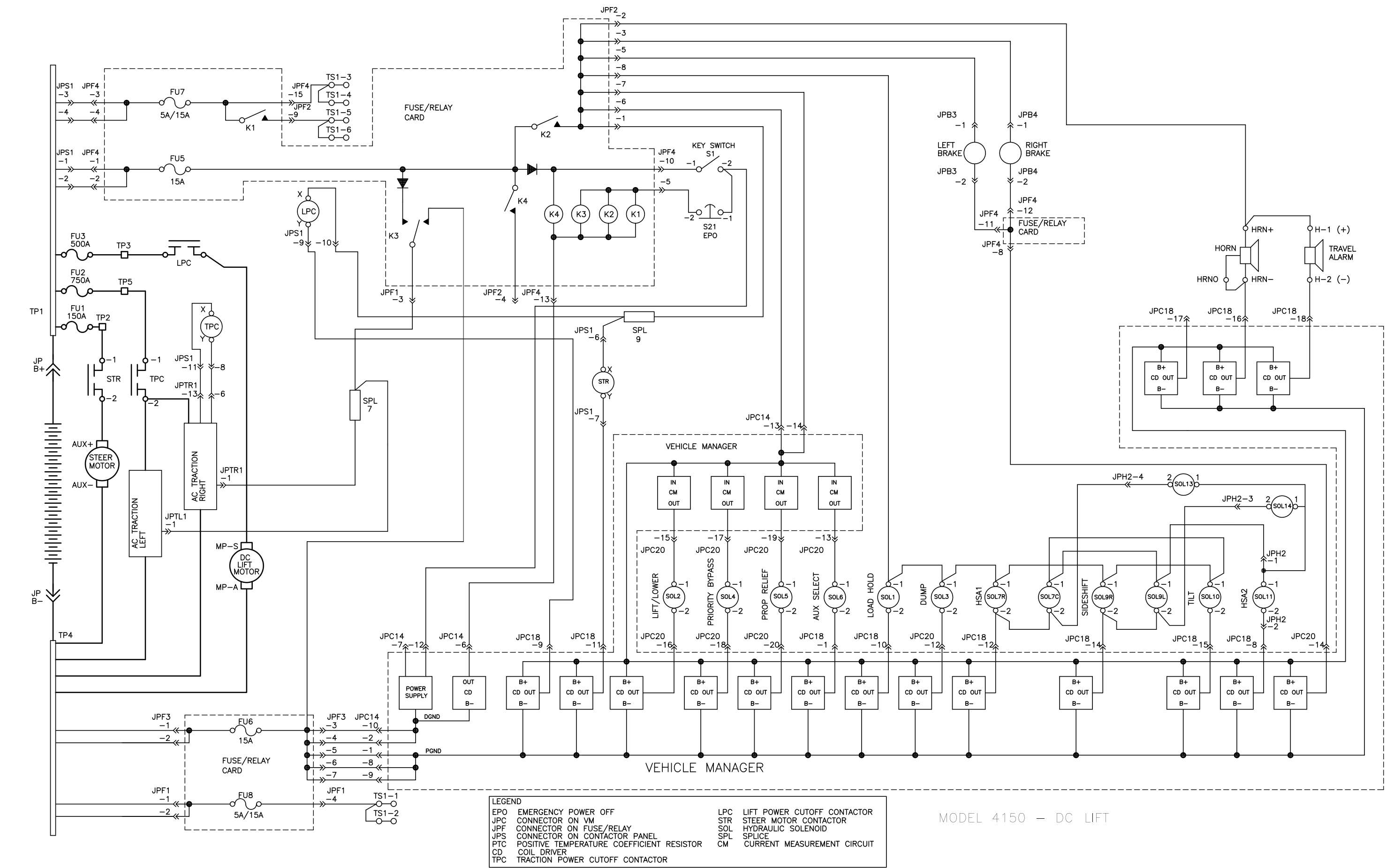
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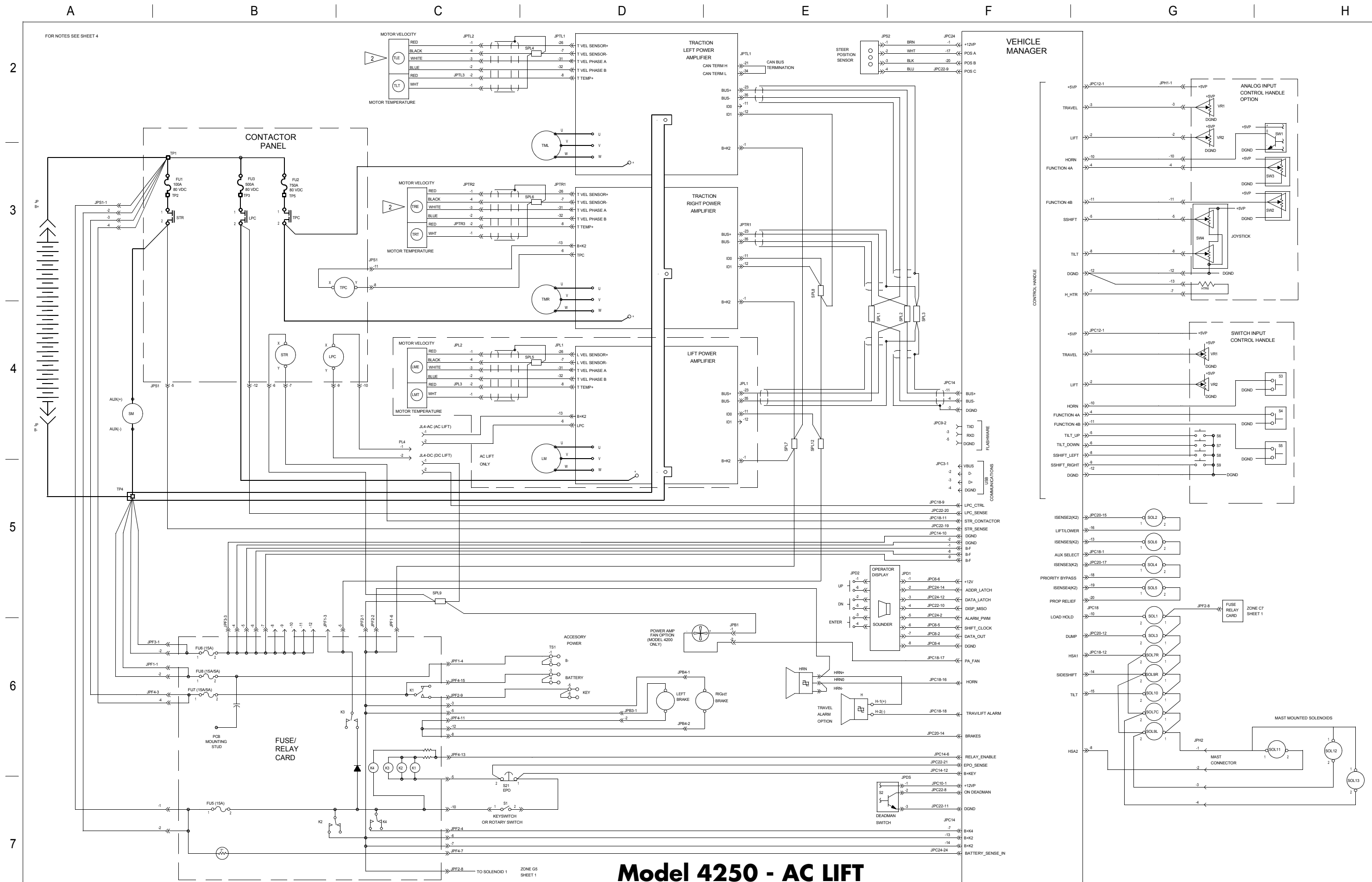
Publication: 1124958C

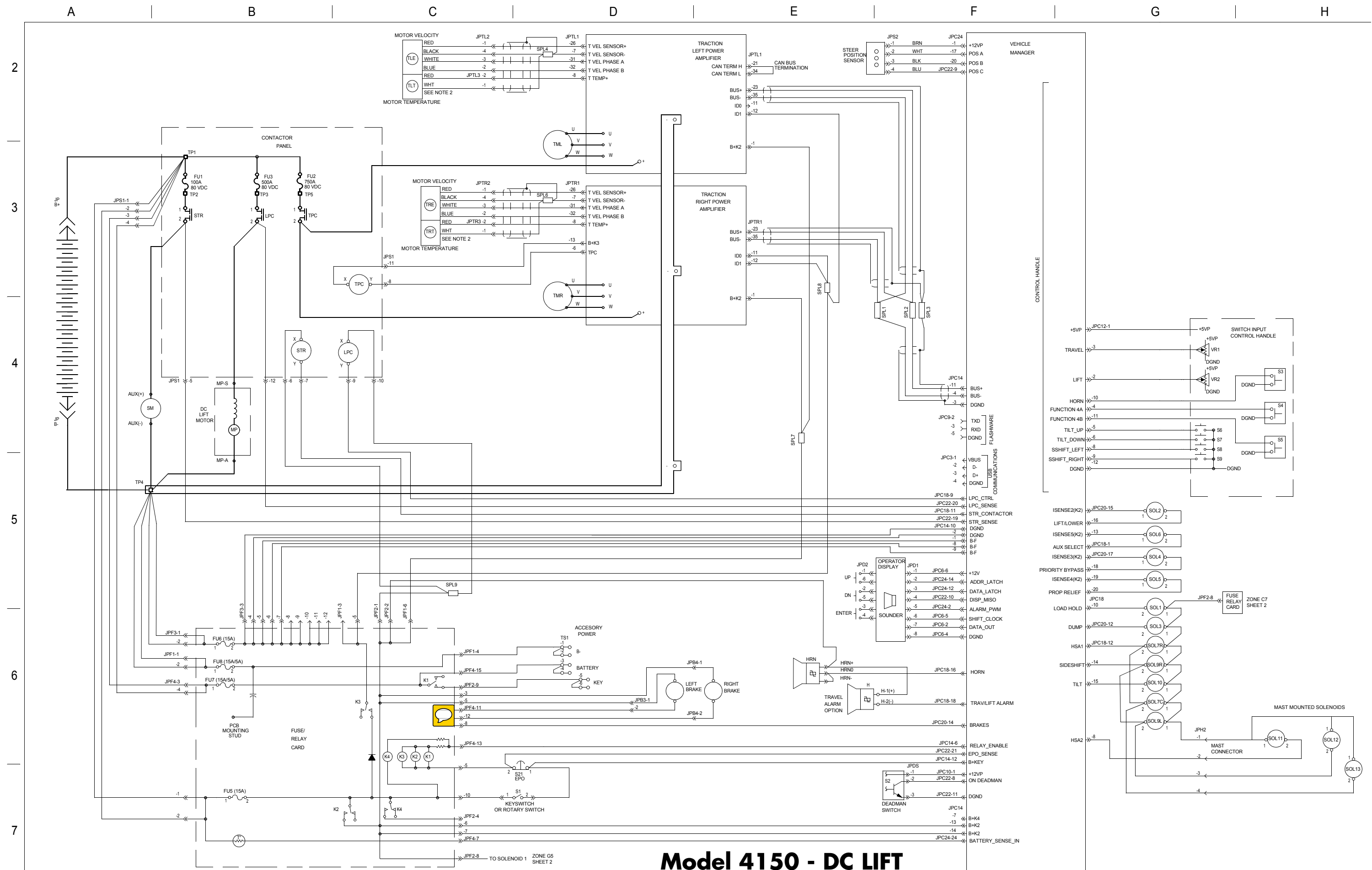
Issued: 15 May 2014

Use with Maintenance Manuals 1119828C and 1193671A











NOTES:

1. MAST IN FULLY LOWERED POSITION.
KEY SWITCH OFF, EPO NOT DEPRESSED, NOT ON DEADMAN.

MOTOR ENCODER COLOR CODES SHOWN ARE FOR 4K TRACTION MOTORS (STD & EE).
FOR 5K TRACTION MOTORS (STD & EE), PIN 2 IS WHITE AND PIN 3 IS BLUE.

LEGEND

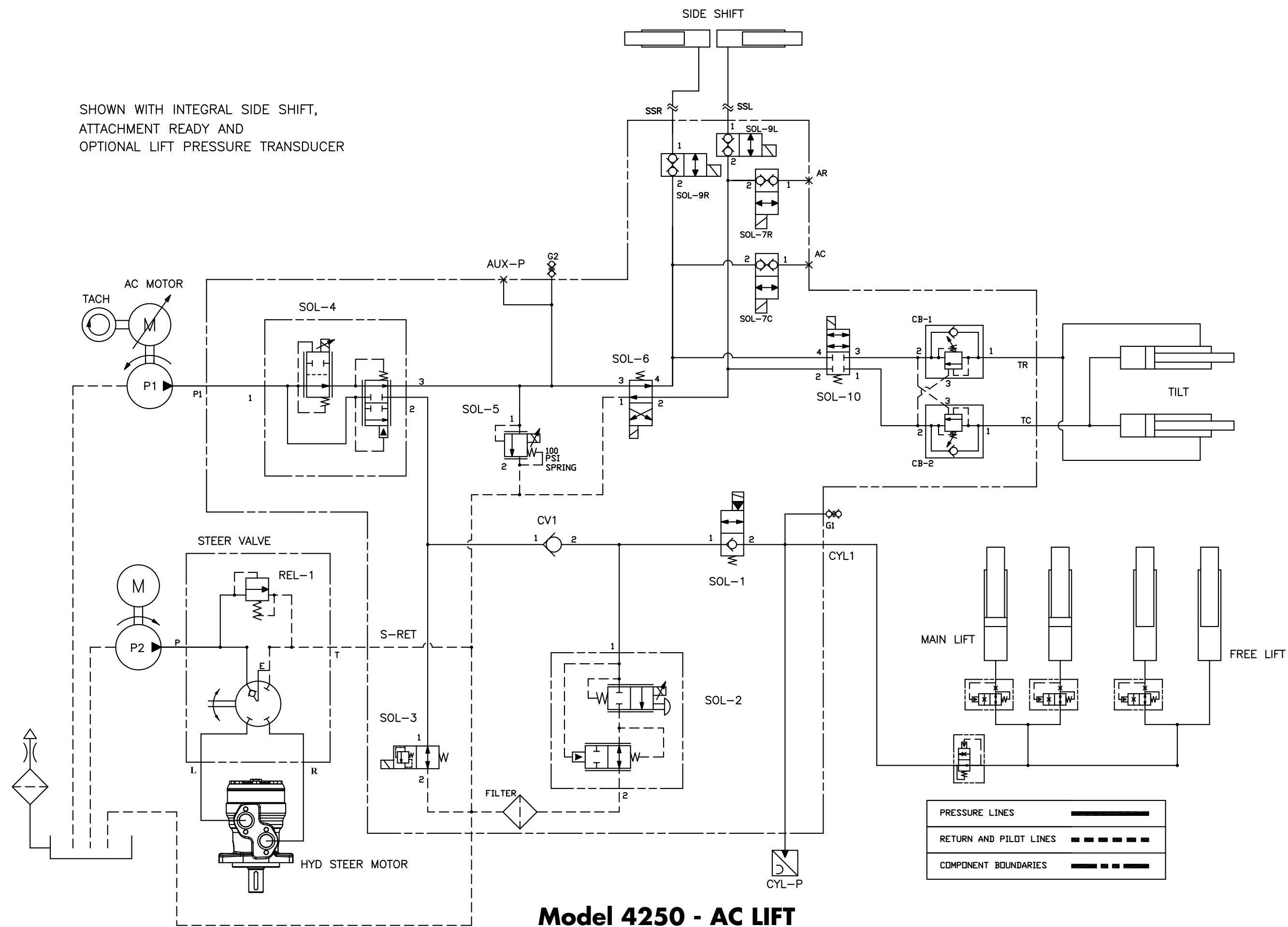
IDENT.	ZONE/SHEET	DESCRIPTION
AUX(+) AUX(-)	A4/1&2 A4/1&2	STEER MOTOR POSITIVE TERMINAL STEER MOTOR NEGATIVE TERMINAL
EPO	C7/1&2	EMERGENCY POWER OFF (S21)
FU1 FU2 FU3	B3/1&2 B3/1&2 B3/1&2	POWER FUSE FOR STEER POWER FUSE FOR TRAVEL POWER FUSE FOR LIFT
FU5 FU6 FU7 FU8 FU11	B7/1&2 B6/1&2 B6/1&2 B6/1&2 A2/3	CONTROL FUSE FOR VEHICLE MANAGER B+ CONTROL FUSE FOR VEHICLE MANAGER B- CONTROL FUSE FOR AUX. POWER B+ CONTROL FUSE FOR AUX. POWER B- CONTROL FUSE FOR WARNING LIGHT & STROBE
FU17 FU35	D5/3 F3/3	CONTROL FUSE FOR HEATER FOR OCSS PHOTO EYE OPTION IPOINT SUPPLIER WIRELESS MODULE
HRN H	E6/1&2 E6/1&2	HORN TRAVEL ALARM
HTR6 HTR7 HTR8	G3, G5/1 D5/3 D5/3	HEATER FOR CONTROL HANDLE (INTERNAL) HEATER FOR RIGHT SIDE OCSS PHOTO EYE HEATER FOR LEFT SIDE OCSS PHOTO EYE
JPA JPB+ JPB- JPB1 JPB3 JPB4	B6/3 A3/1&2 A4/1&2 E6/1&2 D6/1&2 D6/1&2	CONNECTOR FOR TEMPERATURE SENSOR BATTERY + BATTERY - POWER AMP FAN OPTION CONNECTOR BRAKE CONNECTOR-LEFT BRAKE CONNECTOR-RIGHT
JPC3 JPC4 JPC6 JPC9 JPC10 JPC12 JPC12A JPC12B JPC14 JPC18 JPC20	F5/1&2 D5/3 F5/1&2 F4/1&2 F4/1&2 G3, G4/1&2 D6/3 E6/3 F4/1&2 F5/1&2 G6/1&2	USB CONNECTOR ON VM OPTIONAL LEVER #1 CONNECTOR CONNECTOR ON VM CONNECTOR ON VM FOR FLASHWARE CAN: DIGITAL INPUTS & OUTPUTS CONNECTOR ON VM HANDLE CONNECTOR ON VM CONNECTOR FOR LEVER OPTION HARNESS CONNECTOR FOR LEVER OPTION HARNESS B+, B-, CAN COMMUNICATIONS CONNECTOR ON VM COIL DRIVERS CONNECTOR ON VM PROPORTIONAL COIL DRIVERS ON VM
JPC22	F2/1&2	DIGITAL INPUTS CONNECTOR ON VM
JPC24	F2/1&2	ANALOG INPUTS CONNECTOR ON VM
JPD1 JPD2 JPDS	F5/1&2 E5/1&2 E7/1&2	DISPLAY CONNECTOR DISPLAY CONNECTOR FOR OVERLAY CONNECTOR FOR DEADMAN
JPFA JPF1 JPF2 JPF3 JPF4	B5/3 B6/1&2 C5/1&2 B5/1&2 B6/1&2	CONNECTOR FOR OPERATOR FAN B- AUX POWER, B+ POWER AMPS CONNECTOR ON FUSE/RELAY CARD B+ KEY SWITCH RELAYS CONNECTOR ON FUSE/RELAY CARD B- CONNECTOR ON FUSE/RELAY CARD KEY SWITCH, EPO, BATTERY SENSE CONNECTOR ON FUSE/RELAY CARD
JPH1 JPH2 JPH1	G2, G4/1 G6/1&2 F2/3	CONTROL HANDLE CONNECTOR CONNECTOR FOR MAST MODEL 4100 HANDLE HEATER
JPL1 JPL2 JPL3 JPL4-AC,-DC	D4/1 C4/1 C4/1 C4/1	LIFT POWER AMP CONNECTOR LIFT ENCODER CONNECTOR LIFT MOTOR TEMPERATURE SENSOR CONNECTOR LIFT POWER CONTACTOR CONFIGURATION CONNECTOR
JPRDP1	F2/3	IPOINT SUPPLIER WIRELESS MODULE
JPS1 JPS2 JPS5 JPS6 JPS13 JPS14	B4/1&2 F2/1&2 D3/3 D3/3 D3/3 D2/3	CONTACTOR PANEL INTERFACE CONNECTOR STEERING POSITION SENSOR CONNECTOR HIGH SPEED LIMIT OPTION CONNECTOR LIFT LIMIT SWITCH OPTION CONNECTOR RIGHT BATTERY GATE SWITCH CONNECTOR LEFT BATTERY GATE SWITCH CONNECTOR
JPT1	D3/3	MAST TILT SENSING OPTION CONNECTOR
JPTL1, JPTR1 JPTL2, JPTR2 JPTL3, JPTR3	D2, D3/1&2 D2, D3/1&2 C2, C3/1&2	TRACTION AMP CONNECTORS TRACTION MOTOR ENCODER CONNECTORS TRACTION MOTOR TEMPERATURE SENSOR CONNECTORS
JPWL1 JPWL2 JPWL3 JPWL4 JPWL5	B3/3 B3/3 C3/3 B3/3 B2/3	CONNECTOR FOR WORKING LIGHT CONNECTOR FOR WORKING LIGHT CONNECTOR FOR WORKING LIGHT CONNECTOR FOR WORKING LIGHT CONNECTOR FOR WARNING LIGHT
JPW1 JPW2 JPW3 JPW4 JPW5	F4/3 F5/3 F4/3 F4/3 B2/3	CONNECTOR FOR OCSS-UPPER LEFT EMITTER CONNECTOR FOR OCSS-UPPER RIGHT DETECTOR CONNECTOR FOR OCSS-LOWER RIGHT EMITTER CONNECTOR FOR OCSS-LOWER LEFT DETECTOR CONNECTOR FOR WARNING LIGHT
JPY1	B4/3	CONNECTOR WEIGHT PRESSURE SENSOR OPTION
K1 K2 K3 K4	C6/1&2 C7/1&2 C6/1&2 C7/1&2	KEYSWITCH RELAY-OPTIONS KEYSWITCH RELAY-SOLENIODS, ATTACHMENTS, HORN KEYSWITCH RELAY, POWER AMPS KEYSWITCH RELAY
LM LME LMT	D5/1 C4/1 C4/1	AC LIFT MOTOR LIFT MOTOR ENCODER LIFT MOTOR TEMPERATURE SENSOR
LPC	B3/1&2	LIFT POWER CONTACTOR
MP	B4/2	DC LIFT MOTOR
PRESS	B4/3	LIFT PRESSURE SENSOR
S1 S2 S3 S4 S5 S6 S7 S8 S9 S10	D7/1&2 E7/1&2 H4/1&2 H4/1&2 H4/1&2 G4/1&2 G4/1&2 G4/1&2 G4/1&2 B2/3	KEY SWITCH DEADMAN SWITCH CONTROL HANDLE HORN SWITCH CONTROL HANDLE FUNCTION 4A SWITCH CONTROL HANDLE FUNCTION 4B SWITCH CONTROL HANDLE TILT UP SWITCH CONTROL HANDLE TILT DOWN SWITCH CONTROL HANDLE SHIFT LEFT SWITCH CONTROL HANDLE SHIFT RIGHT SWITCH REVERSE WORKING LIGHT SWITCH

SWITCHED BASED CONTROL HANDLE

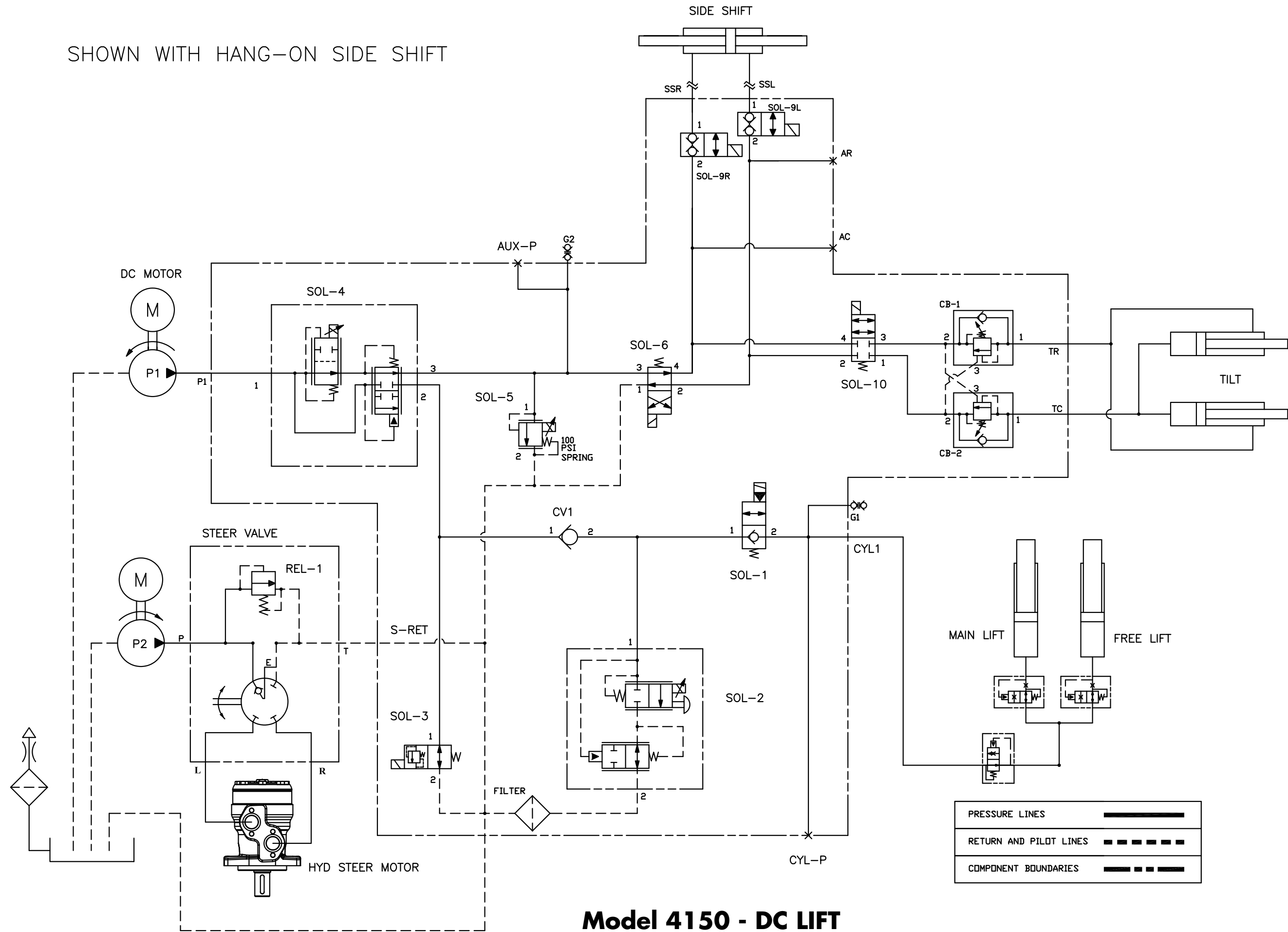
LEGEND

IDENT.	ZONE/SHEET	DESCRIPTION
S11 S12 S15 S18 S22A, S22B SF	D3/3 D4/3 B2/3 D3/3 D2, D3/3 B5/3	HIGH SPEED LIMIT SWITCH LIFT LIMIT SWITCH WORKING LIGHT SWITCH MAST TILT SWITCH OPTION BATTERY GATE SWITCHES SWITCH FOR OPERATOR'S FAN
SM	A4/1&2	STEER MOTOR
SOL1 SOL2 SOL3 SOL4 SOL5 SOL6 SOL7C SOL7R SOL9 SOL9R SOL10 SOL11	G6/1&2 G5/1&2 G5/1&2 G5/1&2 G5/1&2 G6/1&2 G6/1&2 G6/1&2 G6/1&2 G6/1&2 G6/1&2 H6/1&2	LOAD/HOLD SOLENOID LIFT/LOWER PROPORTIONAL SOLENOID DUMP SOLENOID PRIORITY BYPASS SOLENOID PROPORTIONAL RELIEF SOLENOID AUX SELECT SOLENOID SOLENOID FOR HIGH-SPEED ATTACHMENTS SOLENOID FOR HIGH-SPEED ATTACHMENTS SIDESHIFT LEFT SOLENOID SIDESHIFT RIGHT SOLENOID TILT SOLENOID HIGH SPEED ATTACHMENT 2 SOLENOID
SPL1 SPL2 SPL3 SPL4 SPL5 SPL6 SPL7 SPL8 SPL9 SPL10 SPL11 SPL12	E4/1&2 F4/1&2 F4/1&2 D2/1&2 D4/1&2 D3/1&2 E5/1&2 E3/1&2 C5/1&2 F4/3 B3/3 E5/1	SPLICE SPLICE SPLICE SPLICE SPLICE SPLICE SPLICE SPLICE SPLICE SPLICE SPLICE SPLICE
STR	B4/1&2	STEER POWER CONTACTOR
SW1 SW2 SW3 SW4	H2/1 H3/1 H3/1 G3/1	CONTROL HANDLE HORN SWITCH CONTROL HANDLE ANALOG PUSHBUTTON FOR FUNCTION 4B CONTROL HANDLE ANALOG PUSHBUTTON FOR FUNCTION 4A CONTROL HANDLE TILT/SIDESHIFT JOYSTICK
H-1(+) H-2(-)	E6/1&2 E6/1&2	TRAVEL ALARM POSITIVE TERMINAL TRAVEL ALARM NEGATIVE TERMINAL
TLE TLT	C2/1&2 C2/1&2	TRACTION LEFT MOTOR ENCODER TRACTION LEFT TEMPERATURE SENSOR
TML TMR	D3/1&2 D4/1&2	TRACTION MOTOR LEFT TRACTION MOTOR RIGHT
TP1 TP2 TP3 TP4 TP5	B3/1&2 B3/1&2 B3/1&2 A5/1&2 B3/1&2	TIE POINT ON B+ TIE POINT ON AUXILIARY MOTOR FUSE TIE POINT ON LIFT MOTOR FUSE TIE POINT ON B- TIE POINT ON TRACTION MOTOR FUSE
TRE TRT	C3/1&2 C3/1&2	TRACTION RIGHT MOTOR ENCODER TRACTION RIGHT TEMPERATURE SENSOR
TS1	D6/1&2	TERMINAL STRIP FOR ACCESSORY POWER
TPC	C3/1	TRACTION POWER CONTACTOR
VR1 VR2 VR3 VR4 VR5	G2, G4/1, G4/2 G2, G4/1, G4/2 E5/3 E6/3 E6/3	CONTROL HANDLE VARIABLE INPUT DEVICE FOR TRAVEL CONTROL HANDLE VARIABLE INPUT DEVICE FOR LIFT/LOWER LEVER #1 VARIABLE INPUT DEVICE LEVER #2 VARIABLE INPUT DEVICE LEVER #3 VARIABLE INPUT DEVICE
WL	B2/3	WARNING LIGHT
SOUNDER	E5/1&2	DISPLAY AUDIBLE ALARM
T	B7/3	AMBIENT TEMPERATURE SENSOR
T-OCSS	D5/3	THERMOSTAT FOR HEATERS FOR OCSS PHOTO EYES
FAN	B5/3	OPERATOR'S COOLING FAN

OPTIONAL
ANALOG
HANDLE



SHOWN WITH HANG-ON SIDE SHIFT



Model 4150 - DC LIFT

AUXILIARY FUNCTION OPTIONS

