



FORM NO. SENB8366-01

FOR USE IN SERVICE MANUAL:
F25, F30, F35, FC40-SENB8250
EPT15T, EP18T, EP20T-SENB8580
EP13T, EP15T, EP18T-SENB8585
LIFT TRUCKS.

RUN TIME DIAGNOSTICS	
WHILE OPERATING THE TRUCK THE FOLLOWING INDICATES:	
LED DISPLAY	PROBLEM
E	STATIC RETURN TO OFF, CYCLE DIR SW CONTROLLER OVERHEATED. LET COOL POWER CIRCUIT FAILURE. SEE MANUAL NO DISPLAY - CHECK DRIVE FUSES WHEEL ANGLE TRANSDUCER FAILURE OR DISCONNECTION.
C	
F	
A	
FLASHING E	VEHICLE POWERED-UP, SEAT SWITCH OPEN

SYSTEMS CHECK WITH STATIC DIAGNOSTICS

DISCONNECT BATTERY PRIOR TO DISCONNECTING DRIVE & PUMP FUSES
SLIDE SWITCH IN LOGIC BOX TO DIAGNOSTIC POSITION
(AWAY FROM CENTERLINE OF TRUCK)

Schematic

F25, F30, F35, FC40
EP13T, EP15T, EP18T, EP20T
Lift Trucks MicroCommand
Control System

CIRCUIT		PROCEDURE	LED DISPLAY	
			PASS	FAIL
A	INTERNAL CIRCUITRY	CONNECT BATTERY, KEY SWITCH "ON"	dor l	F Δ
B	DRIVE FUSE OUT	CONNECT BATTERY, KEY SWITCH "ON"	1	d
C	SEAT SWITCH	CYCLE SEAT SWITCH	2	1 Δ
D	DIRECTION SWITCH	CYCLE THROUGH NEUTRAL, REV, FWD	3	2 Δ
E	LIFT LEVER SWITCH	PULL LEVER TO MAX LIFT AND RELEASE	4	3 Δ
F	ACCELERATOR SW	ACCEL PEDAL TO MAX AND RELEASE	5	4 Δ
G	STEERWHEEL SENSOR	TURN STEER WHEEL CW MAX, CCW MAX, THEN CENTER	6	5 Δ
H	BATT VOLTAGE	CHECKED AUTOMATICALLY IN PREVIOUS TEST	7	6 Δ
J	LINE CTR	SLIDE SWITCH TO "RUN" POSITION, THEN "DIAG"	8 ‡	-
K	LIFT CTR	SLIDE SW TO "RUN" POSITION, THEN "DIAG"	9 *	-
L	BY-PASS CTR	SLIDE SW TO "RUN" POSITION, THEN "DIAG"	A *	-
M	DIRECTION CTR, R	SLIDE SW TO "RUN" POSITION, THEN "DIAG"	B *	-
N	DIRECTION CTR, L	SLIDE SW TO "RUN" POSITION	C *	-

* CONTACTOR WILL CLOSE WITH SWITCH IN "RUN" AND REOPEN WHEN SWITCH IS IN "DIAG"
(AT THIS POINT, LED DOES NOT INDICATE PASS/FAIL CONDITION)

+ CONTACTOR WILL REMAIN IN UNTIL LIFT CTR TEST IS COMPLETE
DISCONNECT BATTERY PRIOR TO RE-CONNECTING FUSES.
SLIDE-SWITCH SHOULD BE IN "RUN" POSITION.
FASTEN LOGIC BOX COVER
Δ FAILURE MAY BE OVERRIDDEN BY SLIDING SWITCH TO RUN POSITION AND BACK TO
DIAGNOSTIC POSITION.

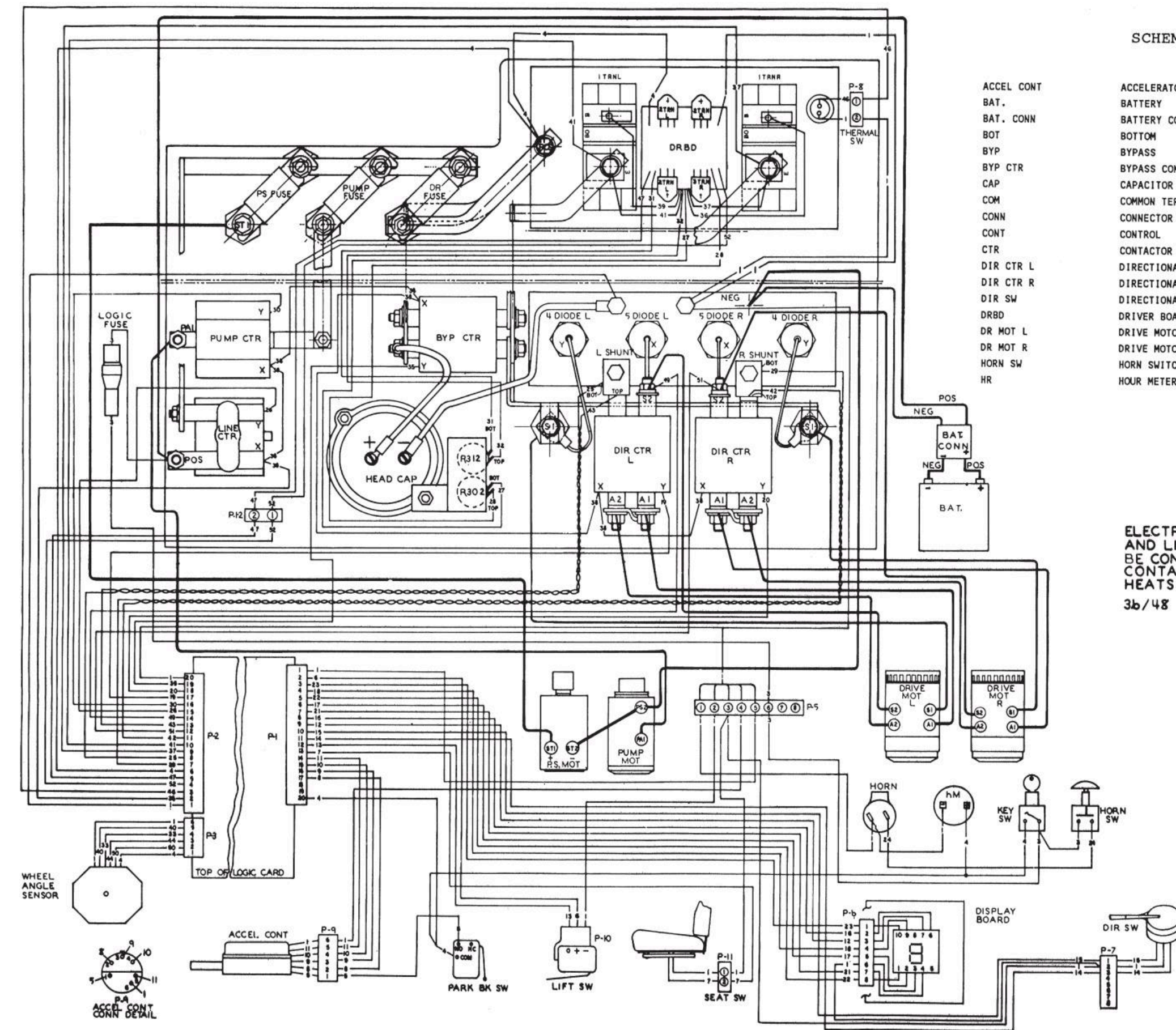
SEE OPERATORS MANUAL FOR FURTHER EXPLANATION

C27886P1



36 VOLT:
5DB2147-UP
5FB1291-UP
4SM1-UP
6MM1-UP

48 VOLT:
5CB2105-UP
5EB1327-UP
2NM1-UP
5TM1-UP



SCHEMATIC AND WIRING LEGEND

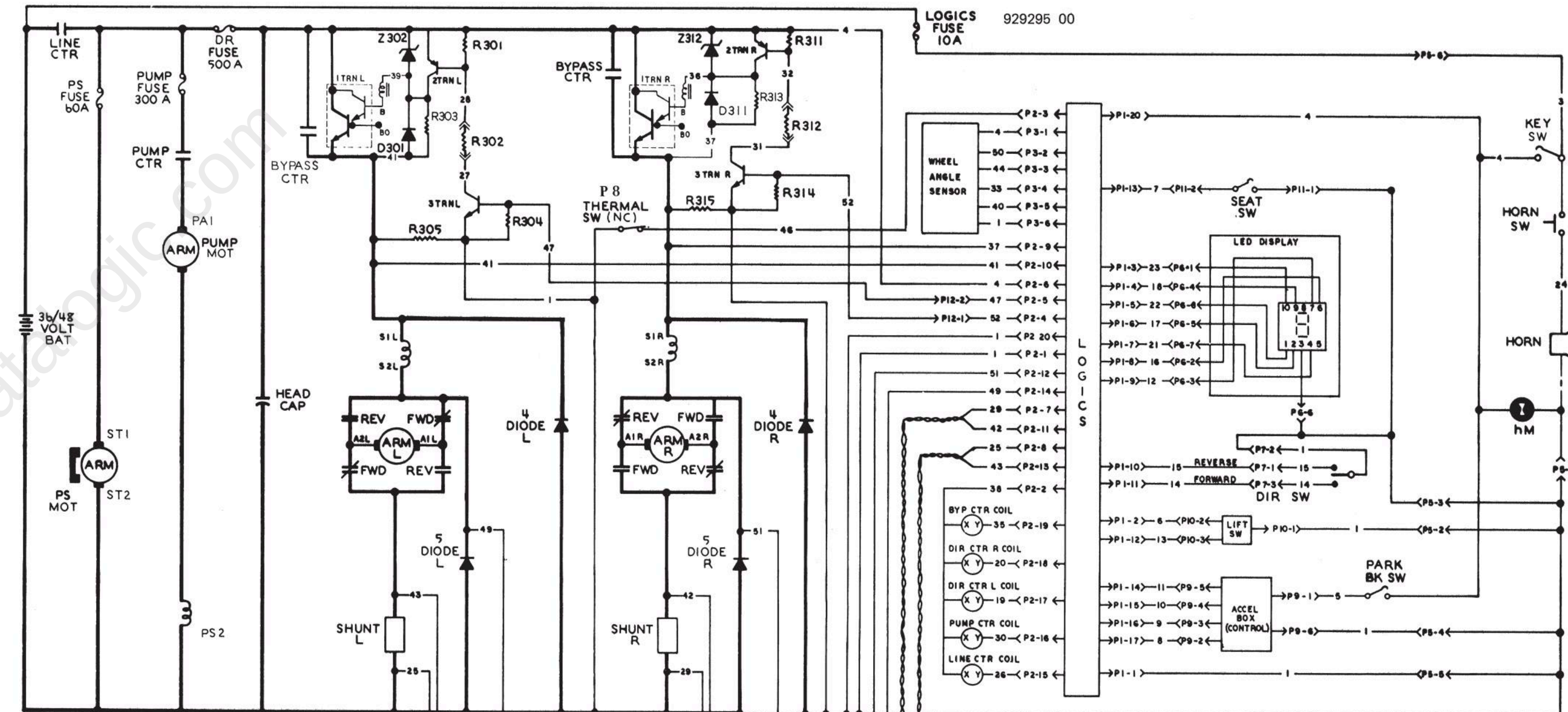
ACCEL CONT	ACCELERATOR CONTROL	KEY SW	KEY SWITCH
BAT.	BATTERY	LIFT SW	LIFT SWITCH
BAT. CONN	BATTERY CONNECTION	LINE CTR	LINE CONTACTOR
BOT	BOTTOM	L SHUNT	LEFT SHUNT
BYP	BYPASS	NC	NORMALLY CLOSED
BYP CTR	BYPASS CONTACTOR	NEG	NEGATIVE
CAP	CAPACITOR	NO	NORMALLY OPEN
COM	COMMON TERMINAL	PARK BK	PARK BRAKE SWITCH
CONN	CONNECTOR	POS	POSITIVE
CONT	CONTROL	PS	POWER STEERING
CTR	CONTACTOR	PS FUSE	POWER STEERING FUSE
DIR CTR L	DIRECTIONAL CONTACTOR LEFT	PS MOT	POWER STEERING MOTOR
DIR CTR R	DIRECTIONAL CONTACTOR RIGHT	PUMP MOT	PUMP MOTOR
DIR SW	DIRECTIONAL SWITCH	PUMP CTR	PUMP CONTACTOR
DRBD	DRIVER BOARD	SEAT SW	SEAT SWITCH
DR MOT L	DRIVE MOTOR LEFT	THERMAL SW	THERMAL SWITCH
DR MOT R	DRIVE MOTOR RIGHT	R SHUNT	RIGHT SHUNT
HORN SW	HORN SWITCH	TRN	TRANSISTOR
HR	HOUR METER	Z	ZENER

ELECTRICAL ACCESSORIES AND LIGHT OPTIONS ARE TO BE CONNECTED TO LINE CONTACTOR AND NEGATIVE HEATSINK.

3b/48 VOLT ONLY

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Full Version Available

Caterpillar FC40 Forklift Electrical Schematic (SENB8366)

Caterpillar FC40 forklift wiring schematic, covers circuits, connectors, wire colours, and diagnostics. Instant PDF download.

VIEW THE FULL MANUAL

<https://machinecatalogic.com/caterpillar-fc40-forklift-electrical-schematic-senb8366/>