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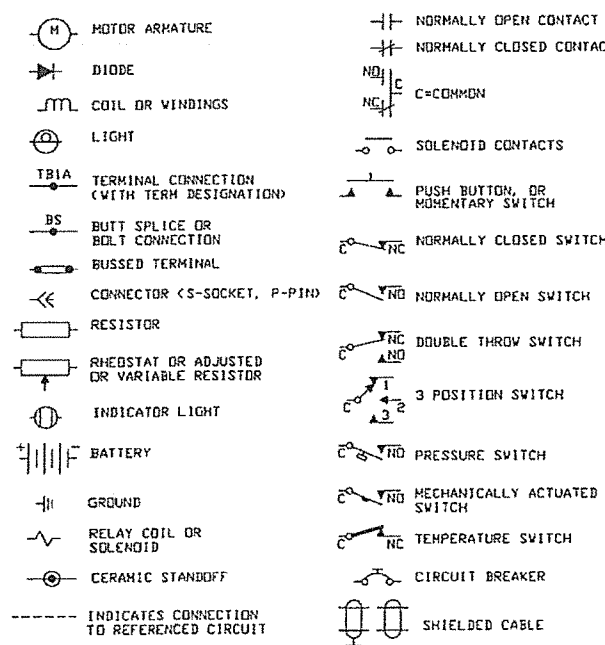
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S10324

GENERAL NOTES:

- THIS SCHEMATIC SHOWS THE CIRCUITRY IN A TRUCK 24 VOLT ELECTRICAL SYSTEM. THE CIRCUIT IS ILLUSTRATED USING SYMBOLS EXPLAINED IN THE FOLLOWING NOTES. THIS DOCUMENT IS FOR TRACING CURRENT FLOW AND TROUBLE SHOOTING.
- INDIVIDUAL NUMBERS ARE ASSIGNED TO EACH WIRE AND ARE SHOWN AS FOLLOWS:
- ZONE NUMBERS ARE USED TO LOCATE CIRCUITS AND ARE SHOWN IN THE LEFT HAND MARGIN OF EACH SHEET. THE FIRST ONE OR TWO DIGITS OF THE ZONE NUMBER REFERS TO THE SHEET NUMBER. THE LAST TWO DIGITS ARE THE LINE NUMBERS OF THE CIRCUITS. EXAMPLE: 321 REFERS TO SHEET 3, LINE 21.
- A CIRCUIT CONTINUATION IS SHOWN BY A ZONE NUMBER IN A HEXAGON. SOME CIRCUITS WILL CONTINUE ON THE POWER AND CONTROL SCHEMATIC AND WILL FOLLOW NOTE #3.
- CURRENT FLOW ON THIS SCHEMATIC IS FROM LEFT TO RIGHT
- ALL DEVICES ARE SHOWN IN THEIR NORMAL OR DE-ENERGIZED POSITION
- A COMMON CHASSIS GROUND SYSTEM IS USED. ALL GROUND WIRES BEGIN WITH "X" AND ARE CONNECTED TO A SPECIFIC GROUND POINT OR A "NEAREST" GROUND POINT. "NEAREST" DEFINES THE CLOSEST MOST DEPENDABLE CHASSIS GROUND POINT TO THE COMPONENT.
- TERMINAL BOARD AND GROUND POINT LOCATIONS ARE AS FOLLOWS:  
 TB1 THRU TB9 & GND1 THRU GND9..... CONTROL BOX  
 TB10 THRU TB19 & GND10 THRU GND19..... CAB  
 TB20 THRU TB29 & GND20 THRU GND29..... ENGINE  
 TB30 THRU TB39 & GND30 THRU GND39..... FRAME  
 TB50 THRU TB59 & GND50 THRU GND59..... SUPERSTRUCTURE  
 TB60 THRU TB69 & GND60 THRU GND69..... AXLEBOX



ITEM	DESCRIPTION	SCHEMATIC	LOCATION TRUCK
11H D	11H DIODE (BETWEEN X15A AND TB11H)	557	CAB
24/12V CONV	24/12V DC CONVERTER	645	CAB
24V ALT	24 VOLT ALTERNATOR	8	ENGINE
AA1, AA2	AUDIBLE ALARM 1, 2	354	CAB
ABXSVLT SW	ABX SVLT SERVICE LIGHT SWITCH	432	AXLE BOX
AC CMP	AIR CONDITIONER COMPRESSOR	658, 8	ENGINE
AL PSW	AUTO LUBE PRESSURE SWITCH	630	HYD BDX
AL THR	AUTO LUBE TIMER	633	CAB
ALSV) SOL	AUTO LUBE SVI SOLENOID	628	S/S
ALT SW	AUTO LUBE TEST SWITCH	627	CAB
BF IND	BLOWER FAULT INDICATOR	738	CAB
BI SW	BATTERY ISOLATION SWITCH	201	FRAME
BU H	BACK UP HOODER	758	AXLE BOX
CE IND	CHECK ENGINE INDICATOR	357, 9	CAB
CS	CERAMIC STANDOFF	653	CAB
DBU IND	DUMP BODY UP INDICATOR	726	CAB
DC/AC CONV1	DC/AC CONVERTER 1 (DASH PANEL)	415	CAB
DC/AC CONV2	DC/AC CONVERTER 2 (CENTER CONSOLE)	415	SHIFT TOWER
DOHE LT	DOHE LIGHT	459	CAB
DOS	DUMP-UP OVERRIDE SWITCH (GE)	729	SHIFT TOWER
DS SW	DATA STORE SWITCH	733	CAB
EBBF SH	ENGINE BLOWBY FLOW SENSOR (GE)	9	ENGINE
ECL SN	ENGINE COOLANT LEVEL SENSOR	9	RADIATOR
ECT GA	ENGINE COOLANT TEMPERATURE GAUGE	255, 421, 615,	CAB
ECT SH	ENGINE COOLANT TEMPERATURE SENSOR	615, 8	ENGINE
ECT SN2	ENGINE COOLANT TEMP. SENSOR (GE)	9	ENGINE
EDC	ENGINE DIAGNOSTIC CONNECTOR	9	CAB
EDT SW	ENGINE DIAGNOSTIC TEST SWITCH	9	CAB
EF IND	ENGINE FAULT INDICATOR	9	CAB
EK R	ENGINE KILL RELAY	9	CAB
EK SW	ENGINE KILL SWITCH	747, 9	HOOD
ED PSW	ENGINE OIL PRESSURE SWITCH (CAB)	618	CAB
EDP GA	ENGINE OIL PRESSURE GAUGE	421	CAB
EDP SH	ENGINE OIL PRESSURE SENSOR (GE)	9	ENGINE
ES/S SW	ENGINE START/STOP SWITCH	354, 751, 9	CAB
ESVLT SW	ENGINE SERVICE LIGHT SWITCH	449	HOOD
F GA	FUEL GAUGE	421, 606	CAB
FAN MOT	FAN MOTOR (1, 2)	650, 655	CAB
FAN RES	FAN RESISTOR (1A, 1B, 2A, 2B)	650, 655	CAB
FAN SW	FAN SWITCH	653	CAB
FBK XSW	FOOT BRAKE PROXIMITY SWITCH	504	CAB
FLSH	FLASHER	438	CAB
H	HOODER	624	S/S
H/TLT SV	HEAD/TAIL LIGHT SWITCH	403	CAB
HBK XSW	HAND BRAKE PROXIMITY SWITCH	508	HYD BOX
HBSV LT	HYDRAULIC BOX SERVICE LIGHT	456	HYD BOX
HI DP	HIGH SIDE DIODE PANEL	342	CAB
HIB R	HIGH BEAM RELAY	406	FRAME
HIMDT SN	HIGH HYDRAULIC OIL TEMP. SENSOR	543	FRAME
HM	HOURLY METER	618	CAB
INDPC	INDICATOR PANEL CONNECTOR	311, 408, 430,	CAB
		439, 511, 705,	
L8K SOL	LOAD BRAKE SOLENOID	525	HYD BOX
LBU LT	LEFT BACK UP LIGHTS	755	AXLE BOX
LESV LT	LEFT ENGINE SERVICE LIGHT	448	HOOD
LFT/C LT	LEFT FRONT TURN/CLEARANCE LIGHT	431	S/S
LO DP	LOW SIDE DIODE PANEL	342	FRAME
LOB R	LOW BEAM RELAY	402	FRAME
LOBK PSW	LOW BRAKE PRESSURE SWITCH	539	HYD BOX
LOF SN	LOW FUEL SENSOR	611	FRAME
LOHQL SN	LOW HYDRAULIC OIL LEVEL SENSOR	548	FRAME
LOSTR PSW	LOW STEERING PRESSURE SWITCH	552	FRAME
LRET LT	LEFT RETARD LIGHT	427	AXLE BOX
LRT/C LT	LEFT REAR TURN/CLEARANCE LIGHT	433	DUMP BODY
LT IND	LEFT TURN INDICATOR	430	CAB
LT/S LT	LEFT TURN/STOP LIGHT	435	AXLE BOX
M SW	MASTER SWITCH	226	CAB
MF SW	MULTI-FUNCTION SWITCH	403, 431	CAB
MPS SW	MANUAL POWER SUPPLY SWITCH	534	CAB
MSV R	MASTER SWITCH RELAY	555	CAB
PBK PSW	PARK BRAKE PRESSURE SWITCH	521	HYD BOX
PBKAPP SOL	PARK BRAKE APPLY SOLENOID	519	HYD BOX
PBKREL SOL	PARK BRAKE RELEASE SOLENOID	517	HYD BOX
PBKSD SOL	PARK BRAKE SHUT OFF SOLENOID	515	HYD BOX
PL PHP	PRELUBE PUMP (CUMMINS)	9	FRAME
PL THR	PRELUBE THER (CUMMINS)	9	FRAME
PLD RH	PANEL LIGHT DIMMER RHEOSTAT	421	ENGINE
PLED PSW	PRELUBE ENGINE OIL PRESSURE SWITCH	9	ENGINE
PLSTRTR R	PRELUBE STARTER RELAY (CUMMINS)	9	ENGINE
PTT SW	PRESS TO TEST SWITCH	340	ENGINE
RBV LT	RIGHT BACK UP LIGHTS	757	AXLE BOX
RESV LT	RIGHT ENGINE SERVICE LIGHT	450	HOOD
RFT/C LT	RIGHT FRONT TURN/CLEARANCE LIGHT	440	S/S
RP RH	RETARD PEDAL RHEOSTAT	712	CAB
RRET LT	RIGHT RETARD LIGHT	429	AXLE BOX
RRT/C LT	RIGHT REAR TURN/CLEARANCE LIGHT	442	DUMP BODY
RSC RH	RETARD SPEED CONTROL RHEOSTAT	708	SHIFT TOWER
RT IND	RIGHT TURN INDICATOR	439	CAB
RT/S LT	RIGHT TURN/STOP LIGHT	437	AXLE BOX
S LT	STAIRWAY LIGHT	446	HOOD
SE IND	STOP ENGINE INDICATOR	359, 9	CAB
SE1 R	STOP ENGINE INDICATOR RELAY	9	CAB
SF IND	SYSTEM FAULT INDICATOR	735	CAB
SLT SW1	STAIRWAY LIGHT SWITCH 1	446	CAB
SLT SW2	STAIRWAY LIGHT SWITCH 2	446	HOOD
SPD M	SPEEDOMETER	421, 720	CAB
SPD R	SPEED (EVENT) RELAY	530	CAB
SR SW	SYSTEM RESET SWITCH	731	CAB
SSW	SELECTOR SWITCH	745	SHIFT TOWER
STRAD SOL	STEERING ACCUMULATOR DRAIN SOLENOID	557	FRAME
STRTR R	STARTER RELAY	9	ENGINE
STRTR1	STARTER 1	8	ENGINE
STRTR2	STARTER 2	8	ENGINE
T1	TERMINAL ONE	201, 8	BATT BOX
TAC H	TACHOMETER	421, 723	CAB
TP RH	THROTTLE PEDAL RHEOSTAT	715	CAB
TX	TERMINAL X	201	BATT BOX
VM	VOLTMETER	421, 601	CAB
VR MOT	WIPER MOTOR	637	CAB
VSHR PHP	WASHER PUMP	641	HYD BDX



INDEX

SHEET	CONTENTS
1	NOTES AND REFERENCE DATA
2	24V DISTRIBUTION
3	GROUND DIST., DIODE PANELS
4	LIGHTS
5	HYDRAULICS
6	GAUGES, FAN, WIPER, AUTOLUBE
7	STATEx INTERFACE, SELECTOR SW
8A&9A	DETROIT 16V4000 DDEC IV
8B&9B	CUMMINS QSK60 QUANTUM/CENSE

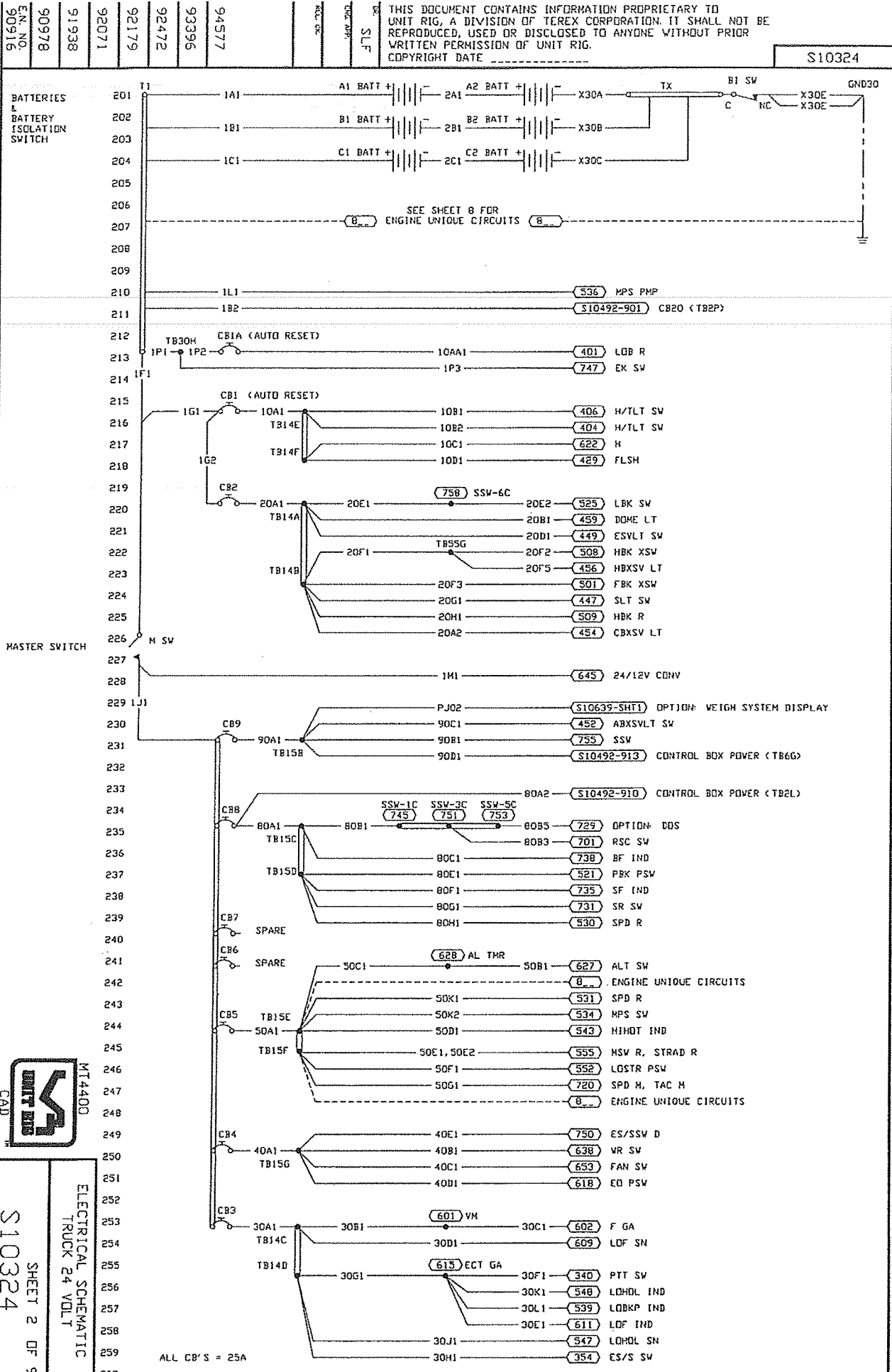
SHEET 1 OF 9

ELECTRICAL SCHEMATIC TRUCK 24 VOLT

SHEETS 2-7 COVER 'STANDARD 24V CIRCUITS'. SHEETS 8-9 COVER 'ENGINE UNIQUE CIRCUITS'.

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S10324



BATTERIES & BATTERY ISOLATION SWITCH

SEE SHEET 8 FOR ENGINE UNIQUE CIRCUITS

MASTER SWITCH



MT4400  
ELECTRICAL SCHEMATIC  
TRUCK 24 VOLT  
S10324  
SHEET 2 OF 9

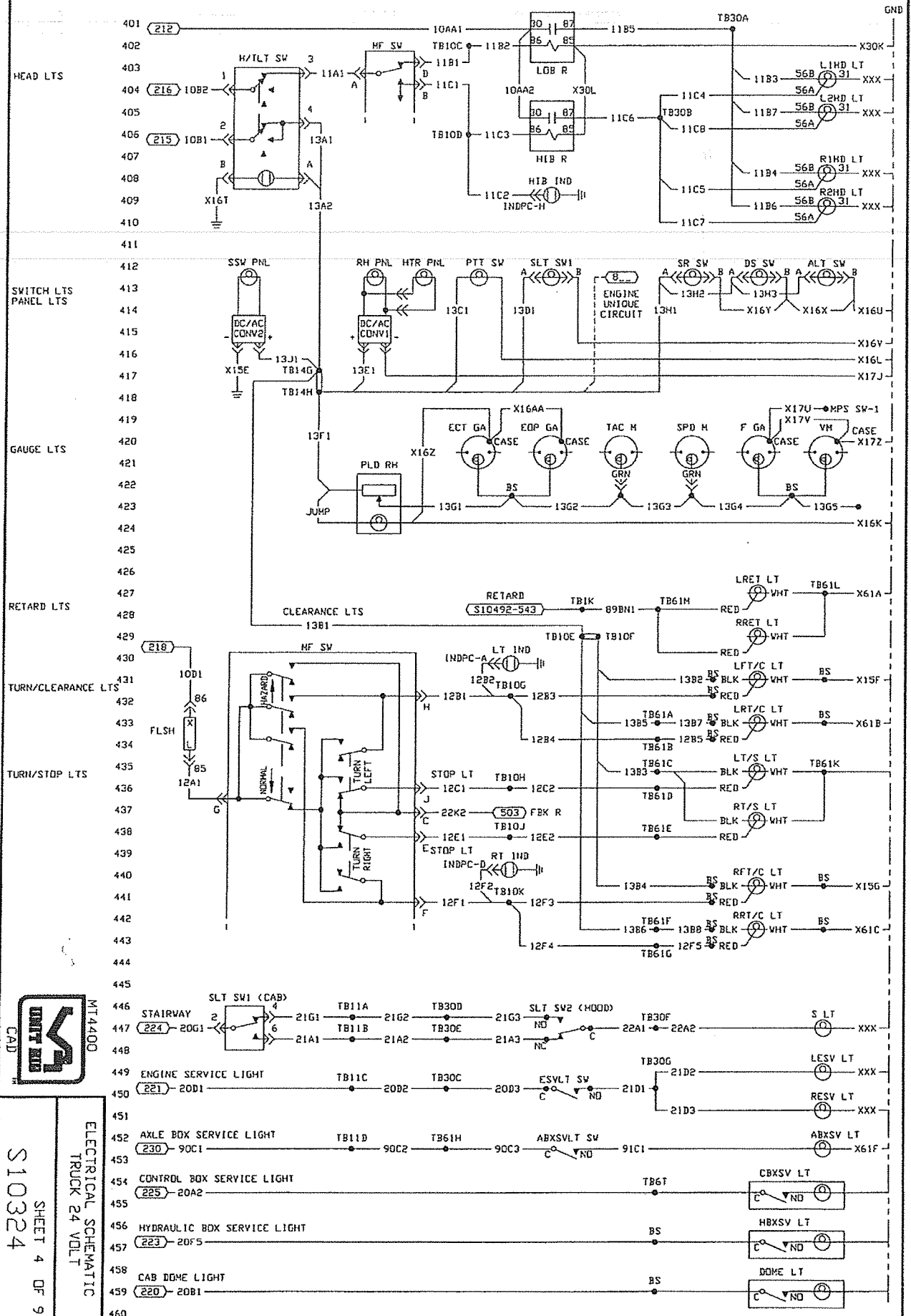
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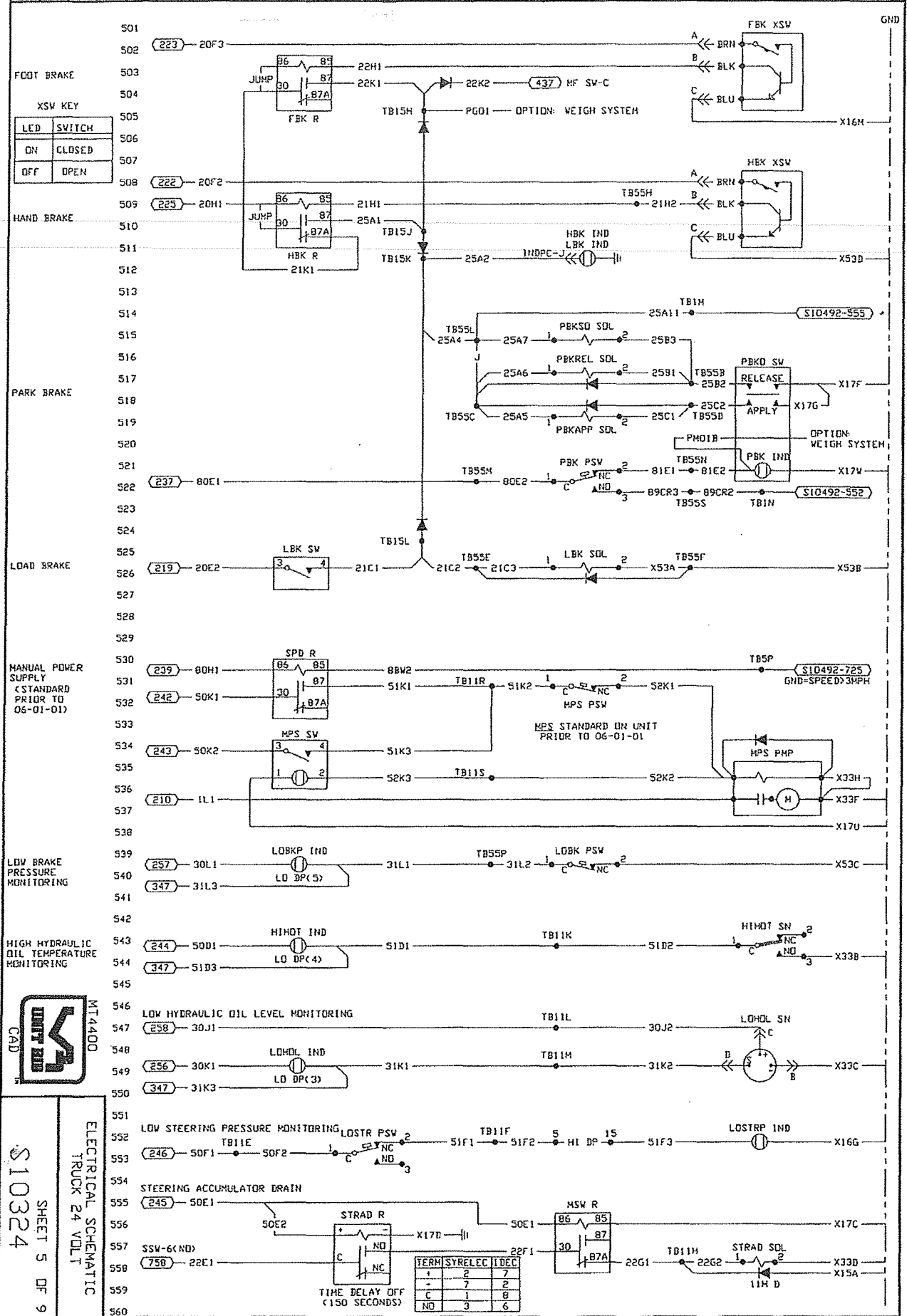


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ELECTRICAL SCHEMATIC  
TRUCK 24 VOLT  
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SHEET 4 OF 9

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S10324



XSW KEY

LED	SWITCH
ON	CLOSED
OFF	OPEN

TERM	SY	RELEC	IDEC
1	2	7	7
2	7	2	2
3	1	8	8
4	3	6	6

SHEET 5 OF 9

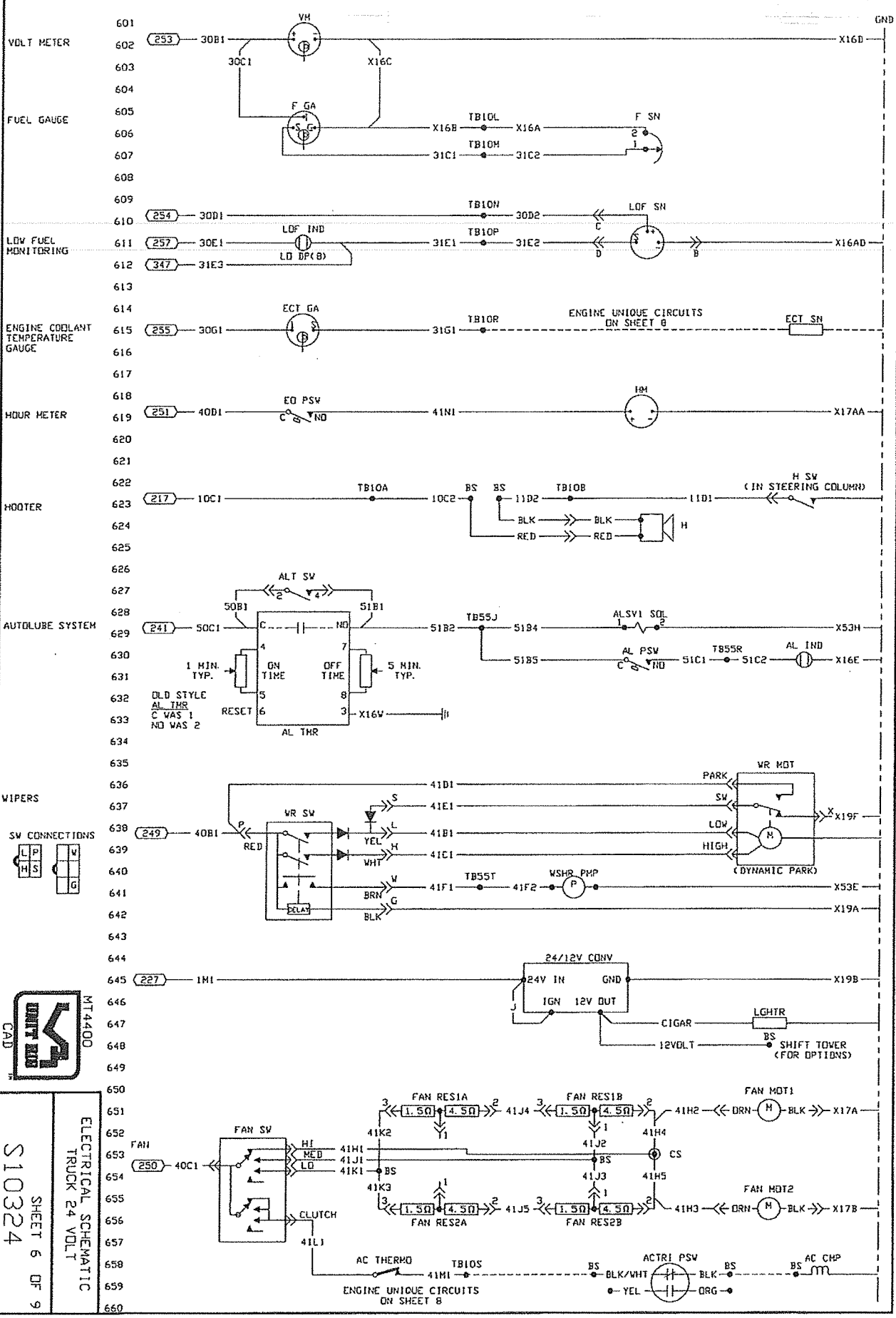
ELECTRICAL SCHEMATIC TRUCK 24 VOLT



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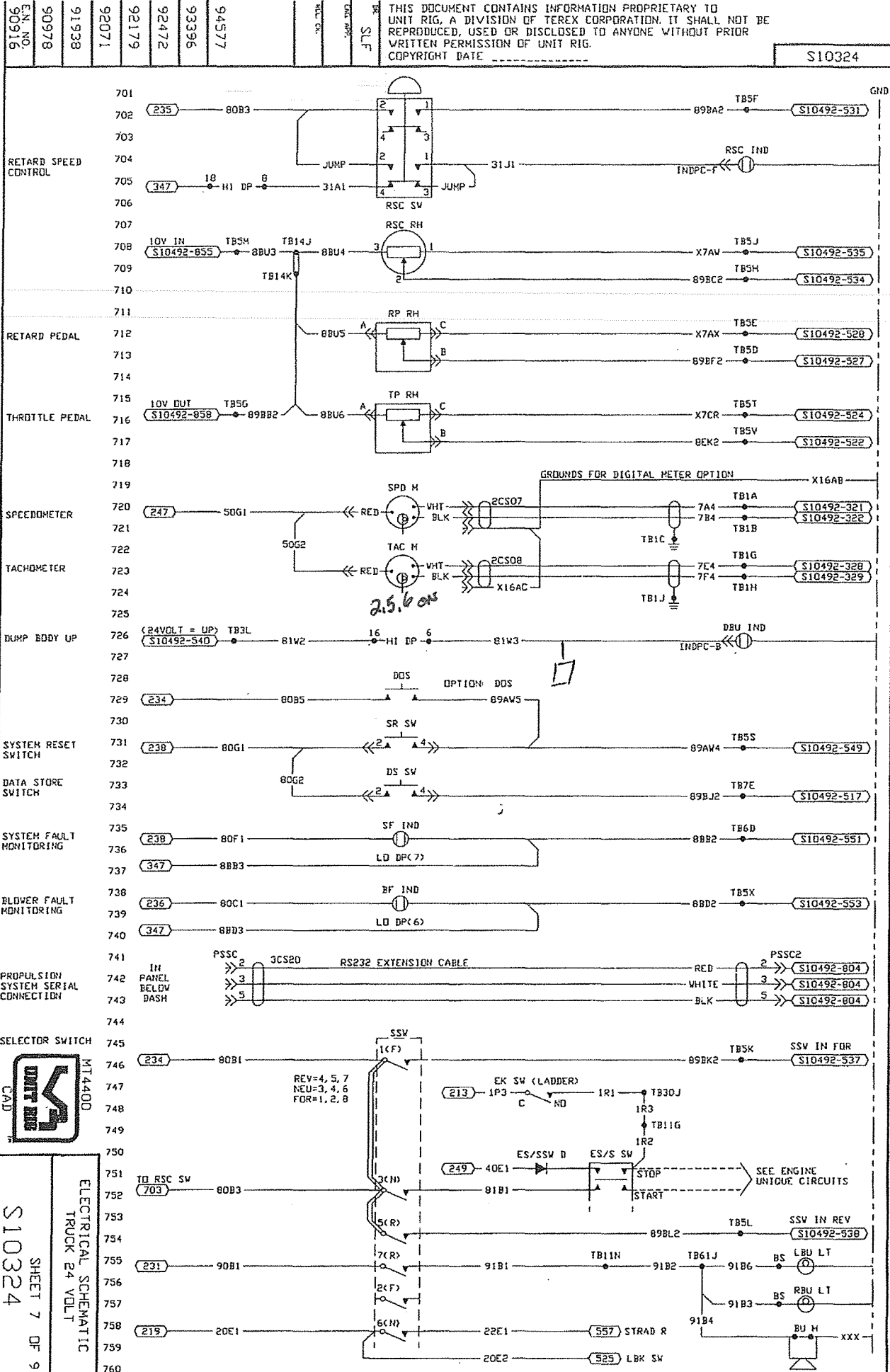
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ELECTRICAL SCHEMATIC  
TRUCK 24 VOLT  
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SHEET 6 OF 9

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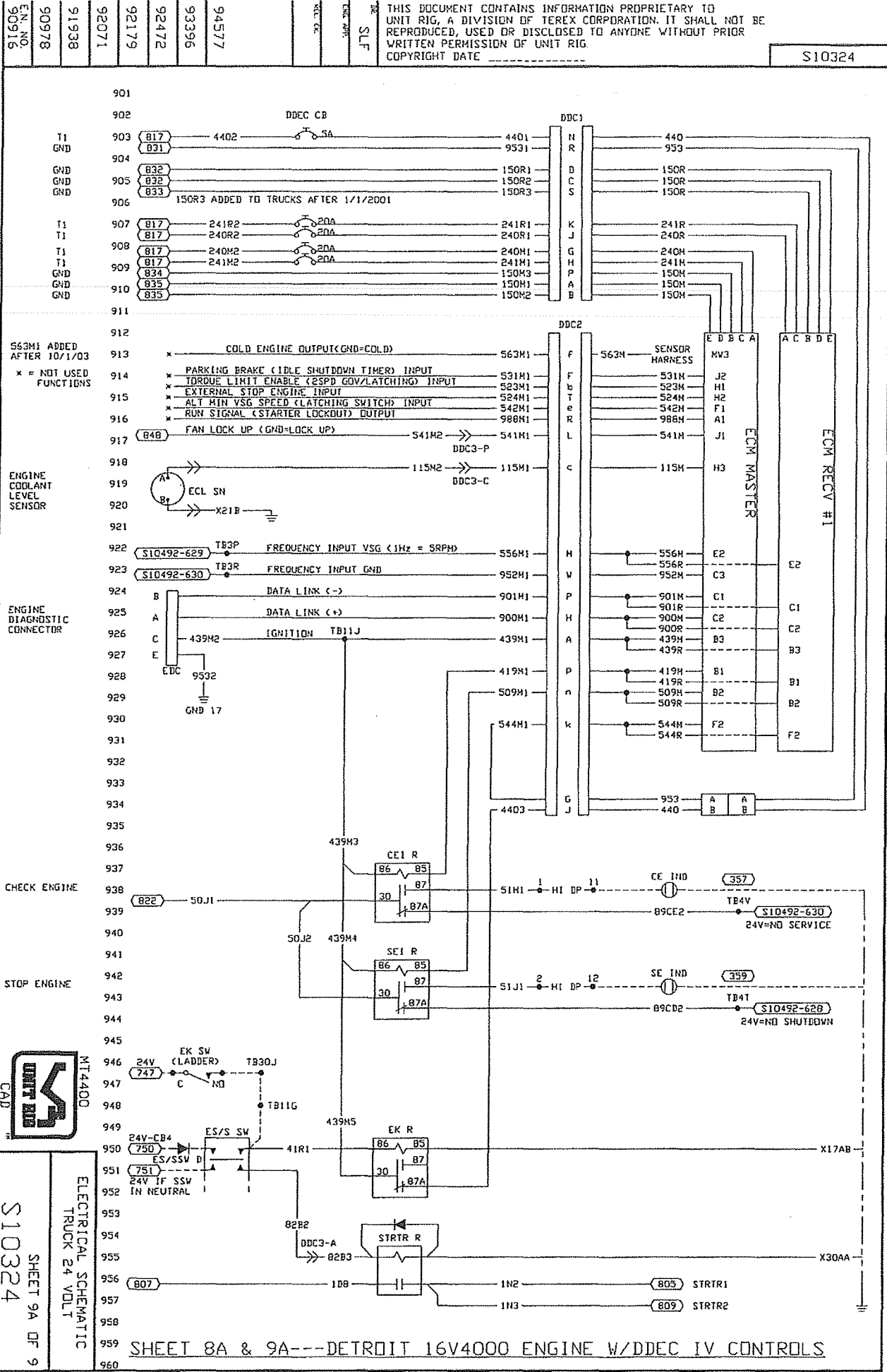


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ELECTRICAL SCHEMATIC  
TRUCK 24 VOLT  
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SHEET 7 OF 9



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ELECTRICAL SCHEMATIC  
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SHEET 9A OF 9  
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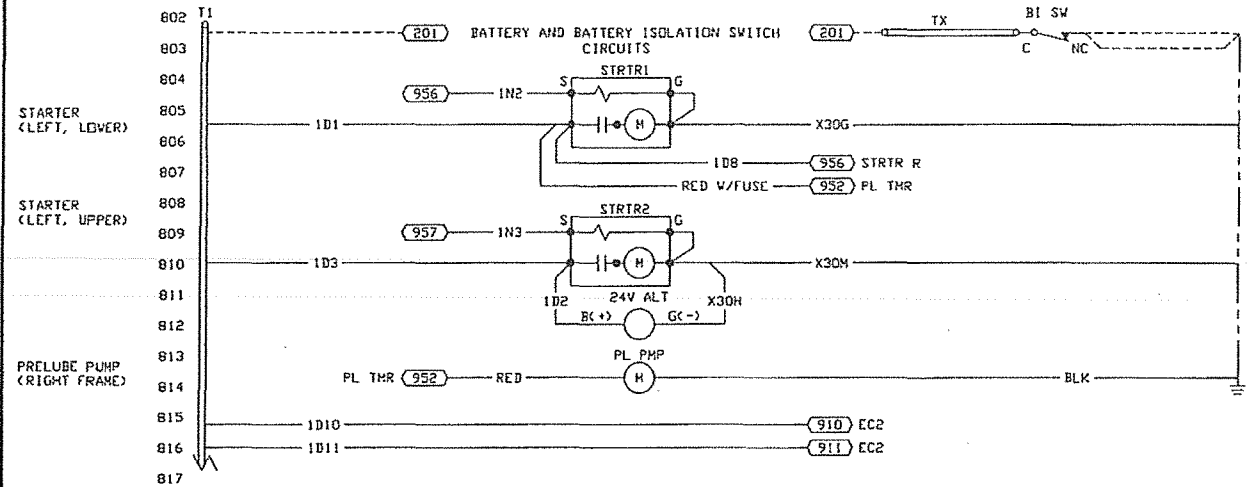
SHEET 8A & 9A---DETROIT 16V4000 ENGINE W/DDEC IV CONTROLS

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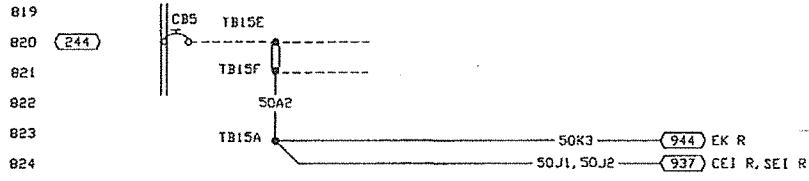
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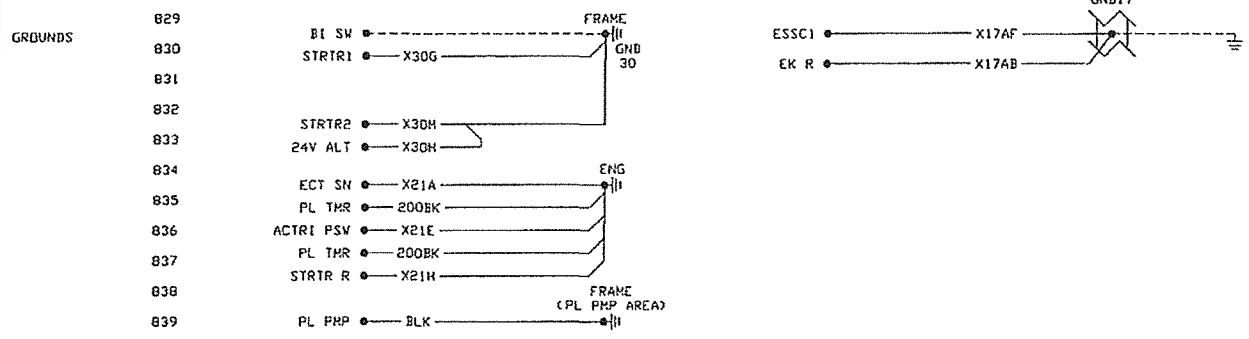
801 24V POWER DISTRIBUTION (SHEET 2 ADDITIONS)



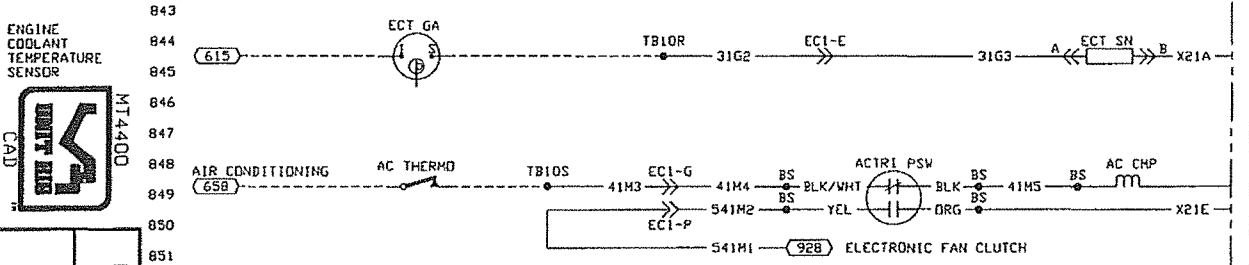
819 CIRCUIT BREAKER 5



828 GROUNDS (SHEET 3 ADDITIONS)



842 GAUGE (SHEET 6 ADDITIONS)



ENGINE COOLANT TEMPERATURE SENSOR

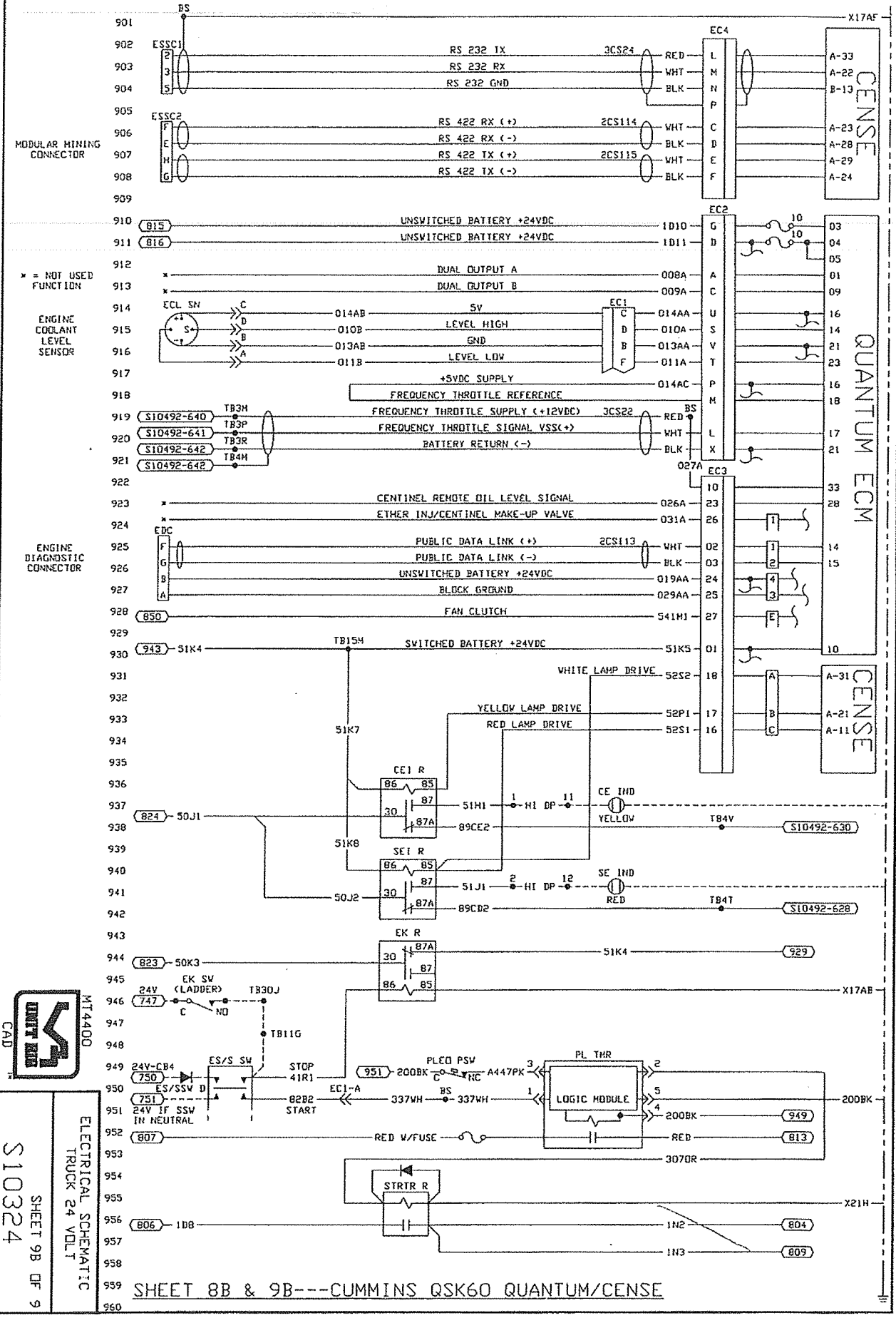


S10324 SHEET 8B OF 9  
ELECTRICAL SCHEMATIC TRUCK 24 VOLT

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ELECTRICAL SCHEMATIC  
TRUCK 24 VOLT  
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SHEET 9B OF 9

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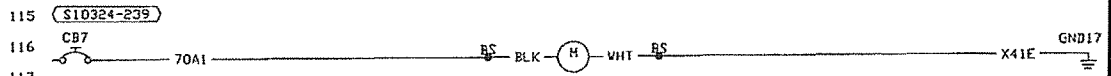
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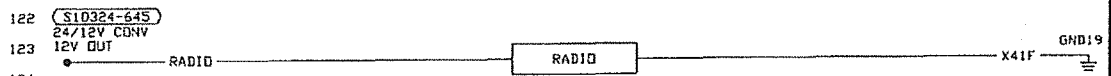
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S10324E

- 101 **NOTES:**
- 102 THIS DRAWING SHOWS 24V WIRING THAT IS UNIQUE TO A SPECIFIC CUSTOMER ORDER. THE CIRCUITS SHOWN BELOW TAKE PRECEDENCE OVER THE STANDARD CIRCUITS SHOWN ON:
- 103 S10324 ELECTRICAL SCHEMATIC, TRUCK 24V
- 103 S10492 ELECTRICAL SCHEMATIC, POWER/CONTROL
- 104 REFER TO S10324 AND S10492 SHEET 1 FOR GENERAL INFORMATION AND NOTES.
- 105 SOME FUNCTIONAL INFORMATION HAS BEEN ADDED TO AID TROUBLESHOOTING AS FOLLOWS:
- 106 B+ 24V SUPPLY FROM BATTERY
- 106 B+(HS) 24V SUPPLY FROM BATTERY THAT IS CONTROLLED BY THE MASTER SWITCH.
- 107 (S10324-201) REFERS TO ANOTHER SCHEMATIC (IE S10324) AND LINE NUMBER (IE -201) WHERE THIS OPTION CONNECTS TO THE STANDARD CIRCUITS. THE LINE NUMBERS WERE ACCURATE WHEN THIS SCHEMATIC WAS RELEASED. FUTURE REVISIONS TO S10324 AND S10492 WILL NOT BE REFLECTED ON THIS SCHEMATIC.
- 109 (EXISTING) INDICATES A CONNECTION TO THE STANDARD CIRCUIT SHOWN ON S10324 OR S10492.
- 110 ----- INDICATES A CONNECTION TO THE STANDARD CIRCUIT SHOWN ON S10324 OR S10492.
- 111 24V= INDICATES THAT 24V EXISTS WHEN THE CONDITION IS TRUE.
- 111 GND= INDICATES THAT A GROUND EXISTS WHEN THE CONDITION IS TRUE.



117 CAB CLEANING ASSY (84503B)



125 RADIO INSTALLATION (76032T)

- 131 SEE SCHEMATIC S10639
- 132 WEIGH SYSTEM ASSEMBLY (83990X)

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BORAX



ELECTRICAL SCHEMATIC  
TRUCK 24 VOLT - OPTIONS  
SHEET 1 OF 1  
S10324E

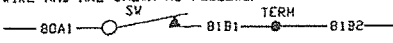
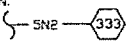
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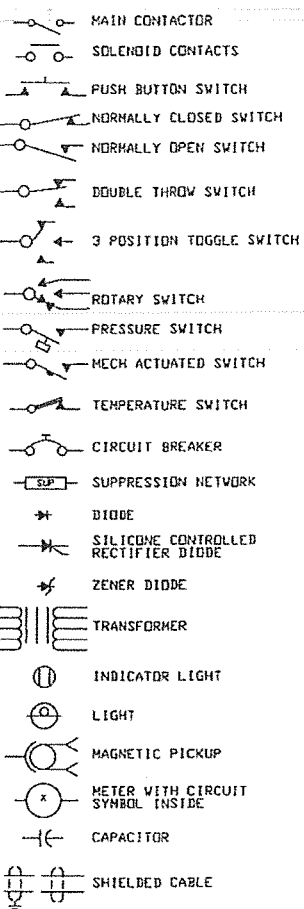
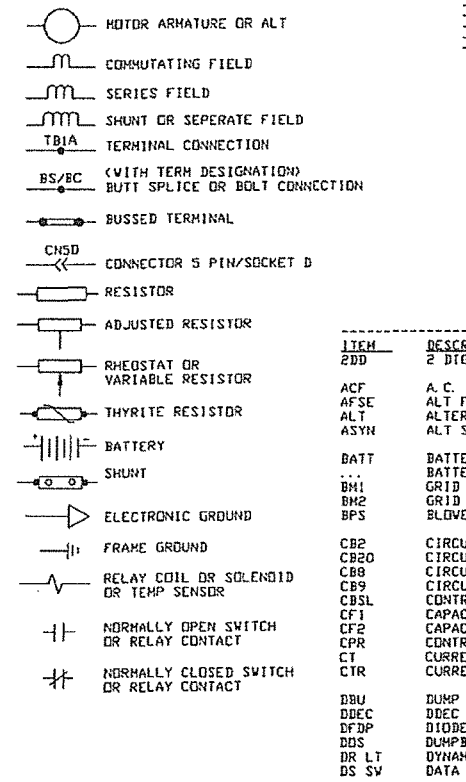
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S10492

GENERAL NOTES:  
 THIS SCHEMATIC SHOWS THE CIRCUITRY IN A TRUCKS POWER AND CONTROL SYSTEM (OR PROPULSION SYSTEM). THIS DOCUMENT IS FOR TROUBLESHOOTING POWER AND CONTROL CIRCUITS. SOME CIRCUITS IN CAB ARE ONLY SHOWN FUNCTIONALLY. FOR CAB CIRCUITS (AND CIRCUITS NOT RELATED TO POWER AND CONTROL SYSTEM) USE THE TRUCK ELECTRICAL SCHEMATICS.

THE CIRCUITS ARE ILLUSTRATED USING SYMBOLS EXPLAINED IN THE FOLLOWING NOTES.

- NUMBERS (IE 80A1 OR 81B1) ARE ASSIGNED TO EACH WIRE AND ARE SHOWN AS FOLLOWS.  

- MAIN POWER CIRCUITS ARE SHOWN BY HEAVY LINES. OPTIONAL CIRCUITS ARE SHOWN BY DASH LINES.
- ZONE NUMBERS ARE USED TO LOCATE CIRCUITS AND ARE SHOWN IN THE LEFT HAND MARGIN OF EACH SHEET. THE FIRST DIGIT OF THE ZONE NUMBER REFERS TO THE SHEET NUMBER. THE SECOND AND THIRD DIGITS ARE THE LINE NUMBERS OF THE CIRCUITS. EXAMPLE: 321 REFERS TO SHEET 3, LINE 21.
- A CIRCUIT CONTINUATION IS SHOWN BY A ZONE NUMBER IN A HEXAGON.  

- THE LETTERS SHOWN IN PARENTHESIS AFTER THE SELECTOR SWITCH CALL OUT INDICATE THE POSITION IN WHICH THE CONTACTS ARE CLOSED. EXAMPLE: S33(N) MEANS SWITCH IS CLOSED IN NEUTRAL.
- ALL DEVICES ARE SHOWN IN THEIR NORMAL OR DE-ENERGIZED POSITION. THE REVERSER IS SHOWN IN THE FORWARD MOVEMENT POSITION.



ITEM	DESCRIPTION	LOCATION
GF	GEN FIELD CONTACTOR	413, 505, 9XX
GFDR	GEN FIELD DISCHARGE RESISTOR	415
GFIP	GROUND FAULT INPUT PANEL	250, 9XX
GFN	GEN FIELD CONTACTOR NETWORK	506, 9XX
GFRL	GEN FIELD RELAY	402, 507, 9XX
GFRLN	GEN FIELD RELAY NETWORK	507, 9XX
GRR	GROUND FAULT 1ND LIGHT	718
	GROUND REFERENCE RESISTOR	245, 9XX
HB SV	HAND BRAKE SWITCH	554
IA3	ISOLATION AMPLIFIER 3	340, 9XX
IA4	ISOLATION AMPLIFIER 4	344, 9XX
IA5	ISOLATION AMPLIFIER 5	348, 9XX
IA6	ISOLATION AMPLIFIER 6	435, 9XX
IA7	ISOLATION AMPLIFIER 7	440, 9XX
IA8	ISOLATION AMPLIFIER 8	419, 9XX
...	LOW BLOWER PRESS LIGHT (CAB IND)	553
...	MASTER SWITCH	905
M1	MOTOR 1 (LEFT WHEEL)	240
M1 FLB	MOTOR 1 FIELD	457
M1TS	MOTOR 1 TEMPERATURE SENSOR	307
M2	MOTOR 2 (RIGHT WHEEL)	240
M2 FLB	MOTOR 2 FIELD	457
M2TS	MOTOR 2 TEMPERATURE SENSOR	311
MF	MOTOR FIELD CONTACTOR	456, 504, 9XX
MFDR	MOTOR FIELD DISCHARGE RESISTOR	455
MFN	MOTOR FIELD CONTACTOR NETWORK	505, 9XX
MFSC	MOTOR FIELD STATIC EXCITER	439-456, 9XX
...	MOTOR OVER TEMPERATURE LIGHT	716
MPU 1	MAGNETIC PICK-UP (WHEEL MOTOR 1)	322
MPU 2	MAGNETIC PICK-UP (WHEEL MOTOR 2)	325
MPU 3	MAGNETIC PICK-UP (ALTERNATOR)	329
MSYN	MOTOR SYNCHRONIZATION TRANSFORMER	443
...	OIL PRESSURE SENSOR	638
...	OVERSPEED LIGHT	720
P1	PROPULSION POWER CONTACTOR	211, 508, 9XX
P1N	PROPULSION POWER CONT NETWORK	509, 9XX
P2	PROPULSION POWER CONTACTOR	705, 9XX
P2N	PROPULSION POWER CONT NETWORK	706, 9XX
PBP SW	PARK BRAKE PRESSURE SWITCH	552
PTUA	PTU CONNECTOR A	805
PTUB	PTU CONNECTOR B	810
R1	RESISTOR 1	402
R100B	RESISTORS FOR PTUB	814
R88A	RESISTORS FOR PTUA	805
R90B	RESISTORS FOR PTUB	809
R98A	RESISTORS FOR PTUA	808
RCL	CONTROL LOGIC RESISTOR	655
RECT	RECTIFIER	211
RETARD	RETRARDING ELECTRONIC RHEOSTAT	527
REV-F	REVERSER (FORWARD FEED BACK)	502, 9XX
REV-R	REVERSER (REVERSE FEED BACK)	503, 9XX
REV(F)	REVERSER (FORWARD)	502, 9XX
REV(F)N	REVERSER (FORWARD) NETWORK	503
REV(R)	REVERSER (REVERSE)	503, 9XX
REV(R)N	REVERSER (REVERSE) NETWORK	504
REVERSER	REVERSER (MAIN CONTACTS)	452
RFR	REVERSER FORWARD RELAY	545
RG1	RET GRID 1	232
RG2	RET GRID 2	232
RLR	RETARD LIGHT RELAY	543, 9XX
RP1	RET POWER CONTACTOR 1	235, 511, 9XX
RP1N	RET POWER CONTACTOR 1 NETWORK	512, 9XX
RP2	RET POWER CONTACTOR 2	235, 512, 9XX
RP2N	RET POWER CONTACTOR 2 NETWORK	513, 9XX
RP3	RET POWER CONTACTOR 3	227, 513, 9XX
RP3N	RET POWER CONTACTOR 3 NETWORK	514, 9XX
RP4	RET POWER CONTACTOR 4	226, 515, 9XX
RP4N	RET POWER CONTACTOR 4 NETWORK	515, 9XX
RP5	RET POWER CONTACTOR 5	224, 516, 9XX
RP5N	RET POWER CONTACTOR 5 NETWORK	517, 9XX
RP6	RET POWER CONTACTOR 6	223, 707, 9XX
RP6N	RET POWER CONTACTOR 6 NETWORK	708, 9XX
RP7	RET POWER CONTACTOR 7	222, 708, 9XX
RP7N	RET POWER CONTACTOR 7 NETWORK	709, 9XX
RP8	RET POWER CONTACTOR 8	221, 709, 9XX
RP8N	RET POWER CONTACTOR 8 NETWORK	710, 9XX
RP9	RET POWER CONTACTOR 9	219, 711, 9XX
RP9N	RET POWER CONTACTOR 9 NETWORK	711, 9XX
RSC LT	RETARD SPEED CONTROL LIGHT	530
RSC SW	RETARD SPEED CONTROL SWITCH	530
RSR	RETARD SPEED RHEOSTAT	534
S1	SHUNT 1	240
S2	SHUNT 2	240
S3	SHUNT 3	456
S4	SHUNT 4	412
S6	SHUNT 6	430
S7	SHUNT 7	442
SS	SELECTOR SWITCH	537, 538
...	SPEEDOMETER	318
...	SYSTEM FAULT LIGHT (CAB IND)	551
...	SYSTEM RESET SWITCH	550
...	TACHOMETER	331
TAFSE	AFSE TEMPERATURE SENSOR	422
TAMB	AMBIENT TEMPERATURE SENSOR	315
THFSE	HFSE TEMPERATURE SENSOR	448
VDR3	VOLTAGE DIVIDER RESISTOR 3	414
VMM1	VOLTAGE MEASURING MODULE 1	336, 9XX
VMM2	VOLTAGE MEASURING MODULE 2	332, 9XX

ITEM	DESCRIPTION	LOCATION
ZDD	2 DIGIT DISPLAY	816-841, 9XX
ACF	A. C. FILTER	204
AFSE	ALT FIELD STATIC EXCITER	402-435, 9XX
ALT	ALTERNATOR	202, 413, 432, 443
ASYN	ALT SYNCHRONIZATION TRANSFORMER	429
BATT	BATTERIES A AND B	901
...	BATTERY ISOLATION SWITCH	902
BM1	GRID BLOWER MOTOR 1	226
BM2	GRID BLOWER MOTOR 2	226
BFS	BLOWER PRESSURE SW	556
CB2	CIRCUIT BREAKER 2	9XX
CB20	CIRCUIT BREAKER 20	9XX
CB8	CIRCUIT BREAKER 8	9XX
CB9	CIRCUIT BREAKER 9	9XX
CB3L	CONTROL BDX SERVICE LIGHT	907
CF1	CAPACITOR FILTER (+15VDC)	949
CF2	CAPACITOR FILTER (-15VDC)	954
CFR	CONTROL POWER RELAY	538, 9XX
CTR	CURRENT TRANSFORMER	433
CTR	CURRENT TRANSFORMER RESISTOR	431
DBU	DUMP BODY UP SWITCH	541, 9XX
DDEC	DDEC (WARNING CIRCUITS)	628
DFDP	DIODE FAULT DETECTION PANEL	406, 9XX
DDS	DUMPBODY OVERRIDE SWITCH	548
DR LT	DYNAMIC RETARDING LIGHT	543, 545
DS SV	DATA STORE SWITCH	518
EFPA	ELECTRONIC FOOT PEDAL ASSY	522
...	ENGINE BLOWBY FLOW SENSOR	642
...	ENGINE COOLANT PRESSURE SENSOR	647
...	ENGINE COOLANT TEMP SENSOR	652
...	ENGINE SERVICE LIGHT	647
...	ENGINE SHUTDOWN LIGHT	645
...	FAILED DIODE LIGHT	722
FDT	FAULT DETECTION TRANSFORMER	412
FL275	CARD RACK 3XX, 4XX, 5XX, 6XX, 7XX, 8XX, 9XX	



ELECTRICAL SCHEMATIC  
 POWER / CONTROL  
 SHEET 1 OF 10  
 S10492

SHEET	CONTENTS
1	NOTES AND REFERENCE DATA
2A	POWER CIRCUIT & GND FAULT (12 GRIDS, 3 STEP ERR)
2B	POWER CIRCUIT & GND FAULT (18 GRIDS, 3 STEP ERR)
2C	POWER CIRCUIT & GND FAULT (18 GRIDS, 7 STEP ERR)
2D	POWER CIRCUIT & GND FAULT (14 GRIDS, 3 STEP ERR)
2E	POWER CIRCUIT & GND FAULT (14 GRIDS, 7 STEP ERR)
2F	POWER CIRCUIT & GND FAULT (14 GRIDS, 7 STEP ERR)
3	FL275 INPUTS
4	AFSE & MFSE
5	FL275 INPUTS & OUTPUTS
6	FL275 INPUTS & OUTPUT ENGINE OPTIONS
7	FL275 INPUTS & OUTPUT OPTIONS
8	FL275 +15V, 19V, 24V, DISPLAY
9	24V, +15V AND GND DISTRIBUTION
10	TERMINAL BOARDS

ABBREVIATIONS FOR ABOVE LIST:	
3XX	MULTIPLE LINES OF SHEET 3
4XX	MULTIPLE LINES OF SHEET 4
5XX	MULTIPLE LINES OF SHEET 5
6XX	MULTIPLE LINES OF SHEET 6
7XX	MULTIPLE LINES OF SHEET 7
8XX	MULTIPLE LINES OF SHEET 8
ALT	ALTERNATOR
AUTO	AUTOMATIC
CONT	CONTACTOR
GEN	GENERATOR
IND	INDICATOR
LT	LIGHT
PRESS	PRESSURE
PTU	PORTABLE TEST UNIT
RET	RETARD
SV	SWITCH
TEMP	TEMPERATURE

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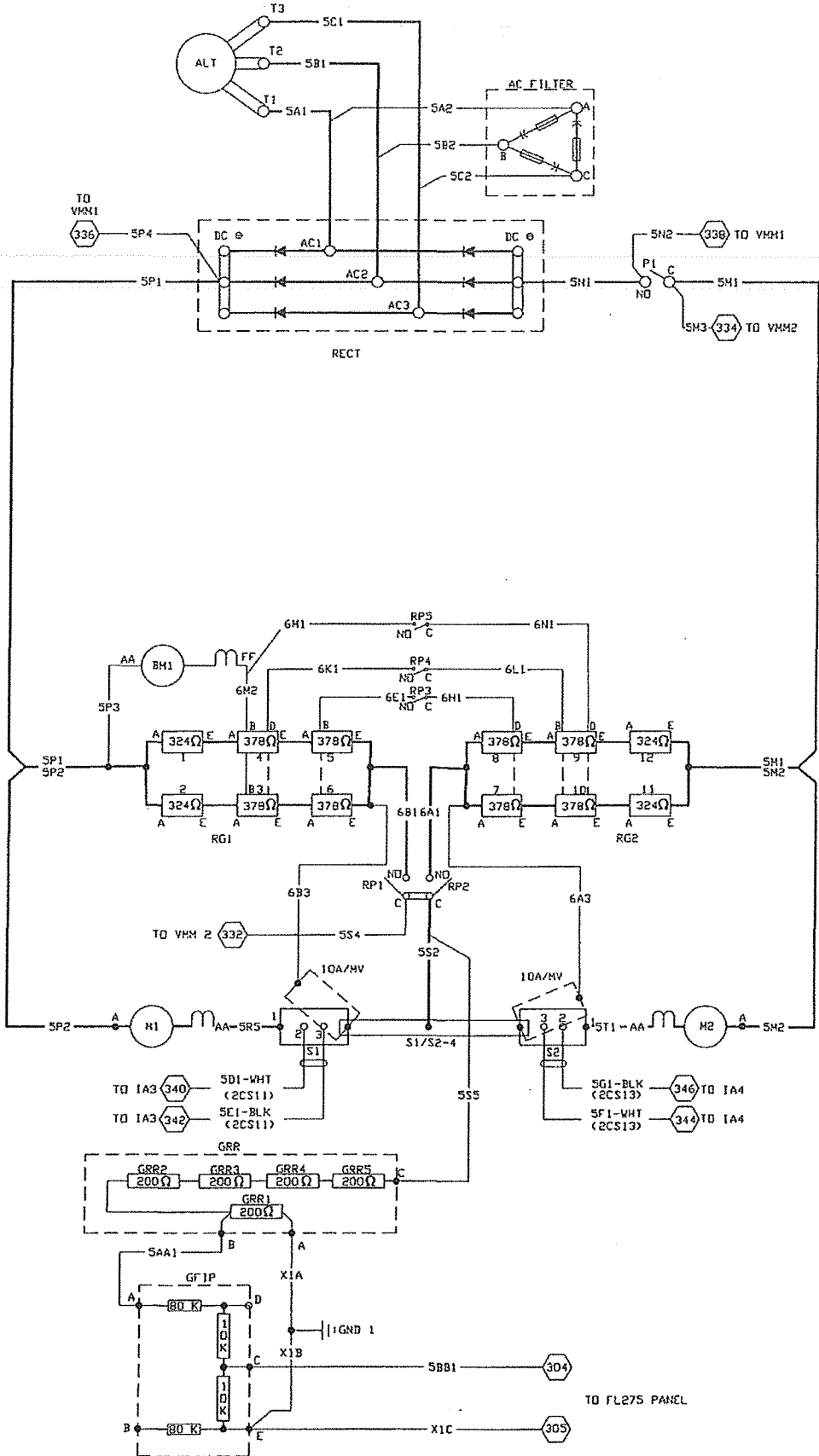
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SWING-SHUNT  
LOAD BOX  
12 GRIDS, 3 STEP ERR

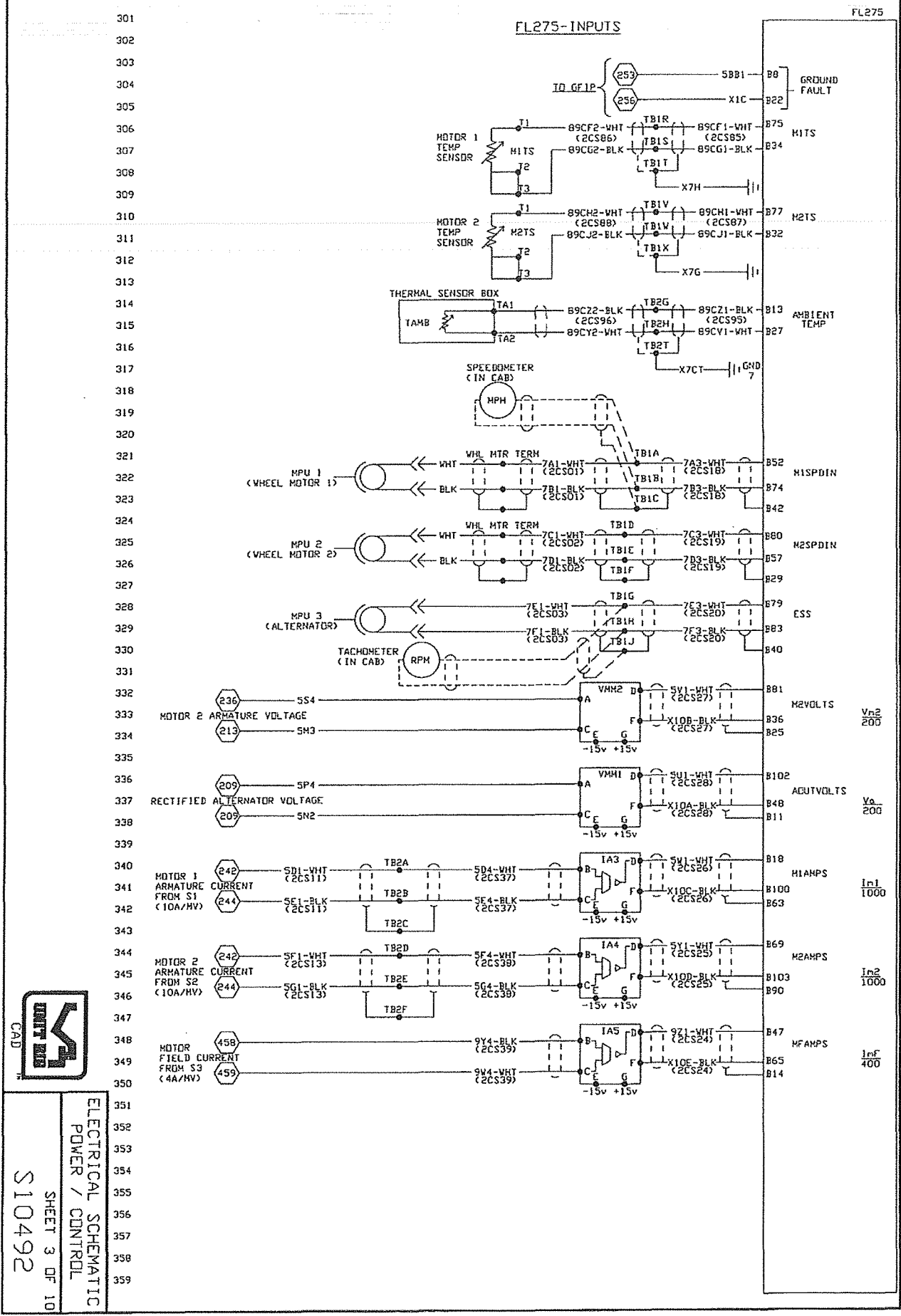


ELECTRICAL SCHEMATIC  
POWER / CONTROL  
SHEET 2A OF 10  
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ELECTRICAL SCHEMATIC  
 POWER / CONTROL  
 SHEET 3 OF 10  
 S10492



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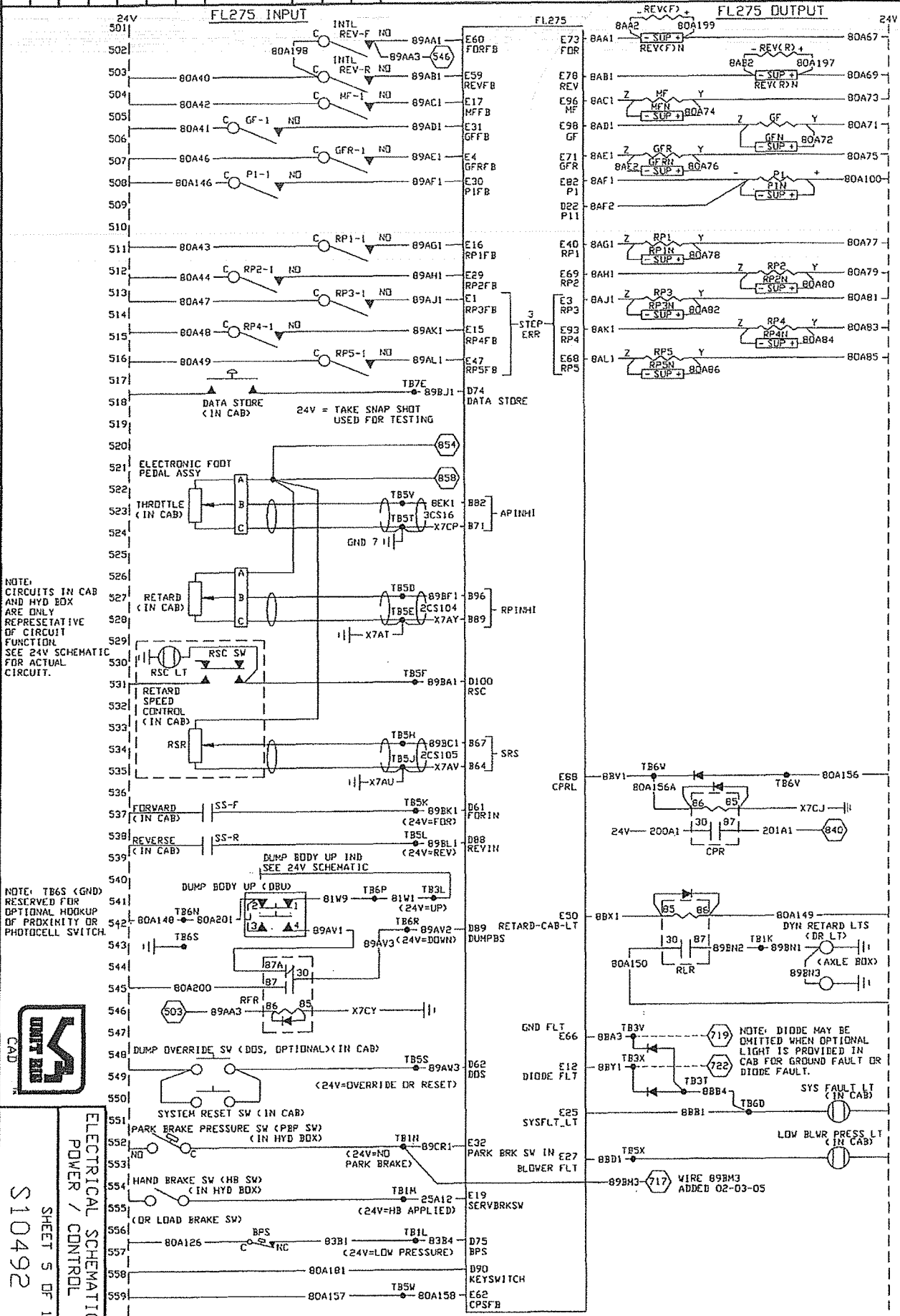
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NOTE: CIRCUITS IN CAB AND HYD BOX ARE ONLY REPRESENTATIVE OF CIRCUIT FUNCTION. SEE 24V SCHEMATIC FOR ACTUAL CIRCUIT.

NOTE: TB6S (GND) RESERVED FOR OPTIONAL HOOKUP OF PROXIMITY OR PHOTOCELL SWITCH.



ELECTRICAL SCHEMATIC POWER / CONTROL SHEET 5 OF 10 S10492





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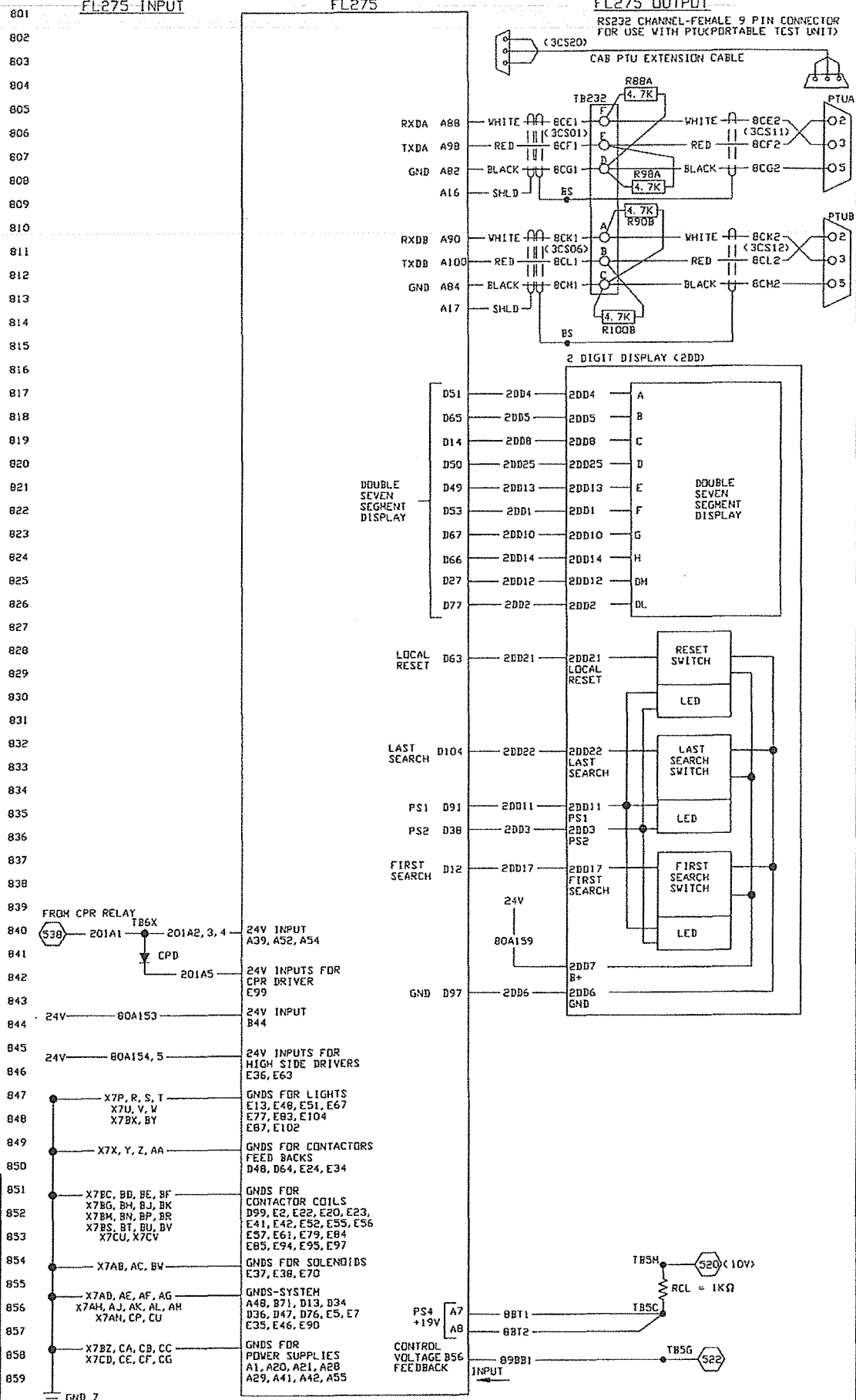
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FL275 INPUT

FL275

FL275 OUTPUT



CPD ADDED  
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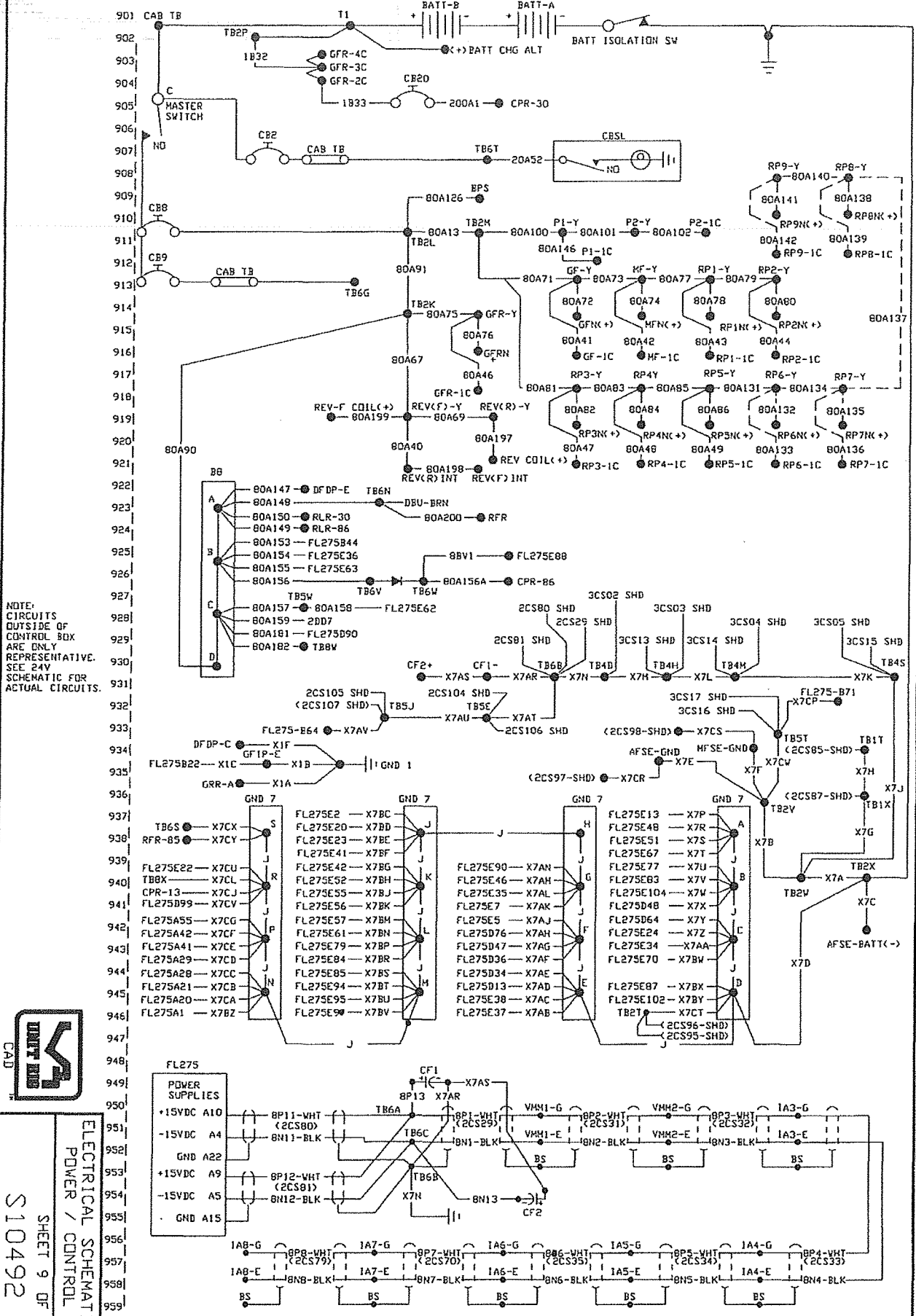


ELECTRICAL SCHEMATIC  
 POWER / CONTROL  
 SHEET 8 OF 10  
 S10492

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NOTE:  
CIRCUITS  
OUTSIDE OF  
CONTROL BOX  
ARE ONLY  
REPRESENTATIVE.  
SEE 24V  
SCHEMATIC FOR  
ACTUAL CIRCUITS.



ELECTRICAL SCHEMATIC  
POWER / CONTROL  
SHEET 9 OF 10  
S10492

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S10492

TERMINAL	WIRE NUMBER	DESCRIPTION	TERMINAL	WIRE NUMBER	DESCRIPTION
TB9A	4C1-WHT	ASYN OUTPUT	TB7A	89CK1	+INHIBIT ALT
TB9B	4D1-BLK	ASYN OUTPUT	TB7B	89CL1	-INHIBIT ALT
TB9C	4A2	ASYN INPUT	TB7C	89CM1	+INHIBIT MOT
TB9D	4B2	ASYN INPUT	TB7D	89CN1	-INHIBIT HOT
TB9E	9C1-WHT	MSYN OUTPUT	TB7E	89BJ1	DATA STORE
TB9F	9D1-BLK	MSYN OUTPUT	TB7F	-----	-----
TB9G	9A2	MSYN INPUT	TB7G	-----	-----
TB9H	9B2	MSYN INPUT	TB7H	-----	-----
TB8A	8EA1-WHT	SIG 1	TB7I	89CK1	+INHIBIT ALT
TB8B	8EB1-BLK	SIG 1	TB7J	89CL1	-INHIBIT ALT
TB8C	SHD	SIG 1	TB7K	89CM1	+INHIBIT MOT
TB8D	8EC1-WHT	SIG 7	TB7L	89CN1	-INHIBIT HOT
TB8E	8ED1-BLK	SIG 7	TB7M	89BJ1	DATA STORE
TB8F	SHD	SIG 7	TB7N	-----	-----
TB8G	-----	-----	TB7O	-----	-----
TB8H	-----	-----	TB7P	89CK1	+INHIBIT ALT
TB8I	-----	-----	TB7Q	89CL1	-INHIBIT ALT
TB8J	-----	-----	TB7R	89CM1	+INHIBIT MOT
TB8K	-----	-----	TB7S	89CN1	-INHIBIT HOT
TB8L	-----	-----	TB7T	89BJ1	DATA STORE
TB8M	-----	-----	TB7U	-----	-----
TB8N	-----	-----	TB7V	-----	-----
TB8P	-----	-----	TB7W	-----	-----
TB8Q	-----	-----	TB7X	-----	-----
TB8R	-----	-----	TB7Y	-----	-----
TB8S	-----	-----	TB7Z	-----	-----
TB8T	-----	-----	-----	-----	-----
TB8V	80A1B2	24V TEST)	-----	-----	-----
TB8W	X7CL	GND TEST)	-----	-----	-----
TB8X	-----	-----	-----	-----	-----
TB6A	8P11-WHT	+15VDC	TB5A	89BH1	AS
TB6B	SHD	GND	TB5B	86A1	RS
TB6C	8N11-BLK	-15VDC	TB5C	88T3	+19V FOR RETARD
TB6D	8BB1	SYS FAULT LIGHT	TB5D	89BF1	RETARD LEVEL INPUT
TB6E	81F16	LDV IDLE SOLENOID	TB5E	X7AY	RETARD LEVEL INPUT
TB6F	87B1	THROTTLE CUTOUT SOLENOID	TB5F	89BA1	RETARD SPEED CONTROL
TB6G	90A25	CONTROL BOX OPTIONS	TB5G	89BB1	RETARD SPEED CONTROL
TB6H	8EF1	FUTURE ENHANCEMENT	TB5H	89BC1	RETARD SPEED CONTROL
TB6I	8EG1	FUTURE ENHANCEMENT	TB5J	X7AV	RETARD SPEED CONTROL
TB6J	8EH1	FUTURE ENHANCEMENT	TB5K	89BK1	SS FWD
TB6K	8EJ1	FUTURE ENHANCEMENT	TB5L	89BL1	SS REV
TB6L	8EJ1	FUTURE ENHANCEMENT	TB5M	88U3	+10V FOR FUEL ENHANCEMENT
TB6M	89CS1	LDWT (24V-EMPTY)	TB5N	81E8	LOW IDLE SV
TB6N	80A148, BRN	DBU-24V	TB5P	88W1	DEM SPEED EVENT
TB6P	81W1, WHT	DBU-NC	TB5Q	-----	-----
TB6R	89AV2, BLK	DBU-GND	TB5R	89AV3	BUMP BODY UP OVERRIDE SW
TB6S	X7CX, BLU	DBU-GND	TB5T	X7CP	THROTTLE SENSOR GROUND
TB6T	20A52	CTRL BOX SERVICE LIGHT	TB5V	8EK1	THROTTLE SENSOR SIGNAL
TB6V	80A156	CPR RAV POWER	TB5W	80A157	CPS FEEDBACK
TB6W	80A156A	CPR ISOLATED POWER	TB5X	88D1	LOW BLOWER PRESS LIGHT
TB6X	201A1	24V FROM CPR	-----	-----	-----
TB4A	89BP1	OIL PRESS SENSOR	TB3A	88U1	P2 COIL
TB4B	89BR1	OIL PRESS SENSOR	TB3B	89AT1	P2 FEEDBACK
TB4C	89BS1	OIL PRESS SENSOR	TB3C	8AH1	RP6 COIL
TB4D	SHD	OIL PRESS SENSOR	TB3D	89AH1	RP6 FEEDBACK
TB4E	89BT1	ENGINE BLOWBY FLOW SENSOR	TB3E	8AP1	RP7 COIL
TB4F	89BU1	ENGINE BLOWBY FLOW SENSOR	TB3F	89AP1	RP7 FEEDBACK
TB4G	89BV1	ENGINE BLOWBY FLOW SENSOR	TB3G	8AR1	RP8 COIL
TB4H	SHD	ENGINE BLOWBY FLOW SENSOR	TB3H	89AR1	RP8 FEEDBACK
TB4I	89BW1	ENGINE COOLANT PRESS	TB3J	8AS1	RP9 COIL
TB4K	89BX1	ENGINE COOLANT PRESS	TB3K	89AS1	RP9 FEEDBACK
TB4L	89BY1	ENGINE COOLANT PRESS	TB3L	81W1	BUMP BODY UP SW (24V-UP)
TB4M	SHD	ENGINE COOLANT PRESS	TB4H	8CC4	DDEC ENGINE CONTROL
TB4N	89CA1	ENGINE COOLANT TEMP	TB3N	89BM1	ACCINH
TB4P	89CB1	ENGINE COOLANT TEMP	TB3P	8CB1	FUTURE ENHANCEMENT
TB4R	89CC1	ENGINE COOLANT TEMP	TB3R	8EL1	DDEC ENG GND RETURN
TB4S	SHD	ENGINE COOLANT TEMP	TB3S	8CD1	MOTOR OVER TEMP LIGHT
TB4T	89CD1	DDEC-ENG SHT DOWN	TB3T	88B4	SYS FAULT LT
TB4V	89CE1	DDEC-ENG SERV	TB3V	88A3	GROUND FAULT
TB4W	88Z1	DDEC-ENG SHT DOWN LIGHT	TB3W	8BE1	OVERSPEED LIGHT
TB4X	8CA1	DDEC-ENG SERV LIGHT	TB3X	88V1	FAILED DIODE
TB2A	5D4-WHT	MOTOR 1 ARMATURE CURRENT	TB1A	7A3-WHT	MOTOR 1 SPEED/SPEEDOMETER
TB2B	5E4-BLK	MOTOR 1 ARMATURE CURRENT	TB1B	7B3-BLK	MOTOR 1 SPEED/SPEEDOMETER
TB2C	SHD	MOTOR 1 ARMATURE CURRENT	TB1C	SHD	MOTOR 1 SPEED/SPEEDOMETER
TB2D	5F4-WHT	MOTOR 2 ARMATURE CURRENT	TB1D	7C3-WHT	MOTOR 2 SPEED
TB2E	5G4-BLK	MOTOR 2 ARMATURE CURRENT	TB1E	7D3-BLK	MOTOR 2 SPEED
TB2F	SHD	MOTOR 2 ARMATURE CURRENT	TB1F	SHD	MOTOR 2 SPEED
TB2G	89CZ1-BLK	AMBIENT TEMPERATURE SENSOR	TB1G	7E3-WHT	ENGINE SPEED/TACHOMETER
TB2H	89CY1-WHT	AMBIENT TEMPERATURE SENSOR	TB1H	7F3-BLK	ENGINE SPEED/TACHOMETER
TB2I	-----	-----	TB1J	SHD	ENGINE SPEED/TACHOMETER
TB2K	80A91	24V SUPPLY	TB1K	89BN1	OUTPUT TO DYNAMIC RETARD LIGHT
TB2L	80A93	24V SUPPLY	TB1L	83B4	BLOWER PRESSURE SW INPUT
TB2M	80A13	24V SUPPLY	TB1M	25A12	HAND BRAKE (SERVBRKSW INPUT)
TB2N	-----	-----	TB1N	89CR1	PARK BRAKE SW INPUT
TB2P	1B32	24V-NO BREAKER	TB1P	-----	-----
TB2R	-----	-----	TB1Q	89CF1-WHT	MOTOR 1 TEMP
TB2S	2A5	12V-NO BREAKER	TB1R	89CG1-BLK	MOTOR 1 TEMP
TB2T	X	GROUND-BATTERY	TB1T	SHD	MOTOR 1 TEMP
TB2V	X	GROUND-BATTERY	TB1V	89CH1-WHT	MOTOR 2 TEMP
TB2W	X	GROUND-BATTERY	TB1W	89CJ1-BLK	MOTOR 2 TEMP
TB2X	X	GROUND-BATTERY	TB1X	SHD	MOTOR 2 TEMP

NORMALLY USED FOR ENGINEERING TESTS

NORMALLY USED FOR TEST POINTS FOR CIRCUITS CONNECTED TO CN4 AND CN5

NORMALLY USED FOR CONNECTION POINTS FOR OPTIONS

NORMALLY USED FOR CONNECTIONS POINTS FOR OUTSIDE WIRING THAT DOES NOT ENTER THROUGH A CONNECTOR



ELECTRICAL SCHEMATIC  
POWER / CONTROL  
SHEET 10 OF 10  
S10492

E.N. NO.

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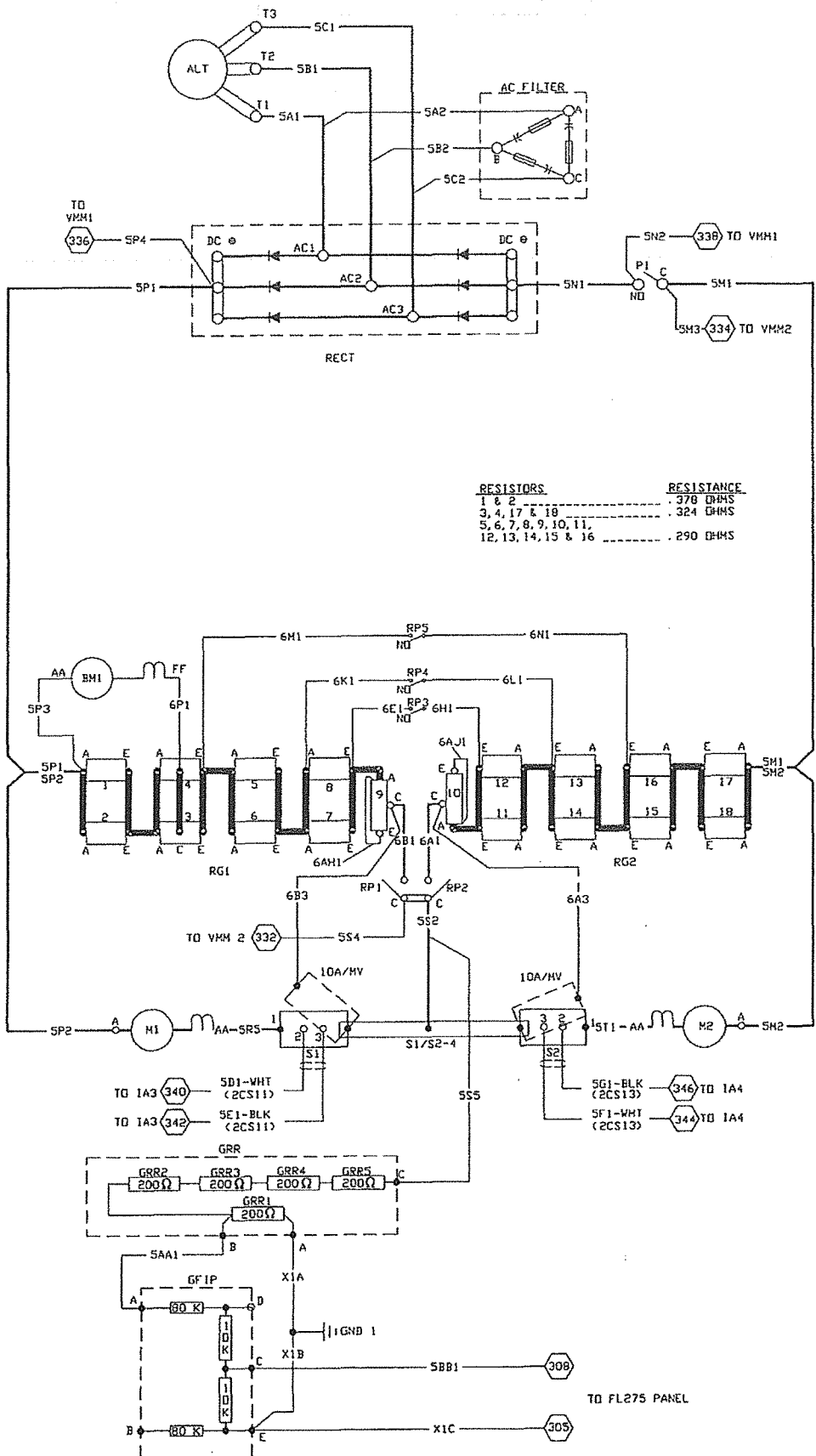
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18 GRIDS, 3 STEP ERR, & P1 ONLY

SWING-SHUNT LOAD BOX



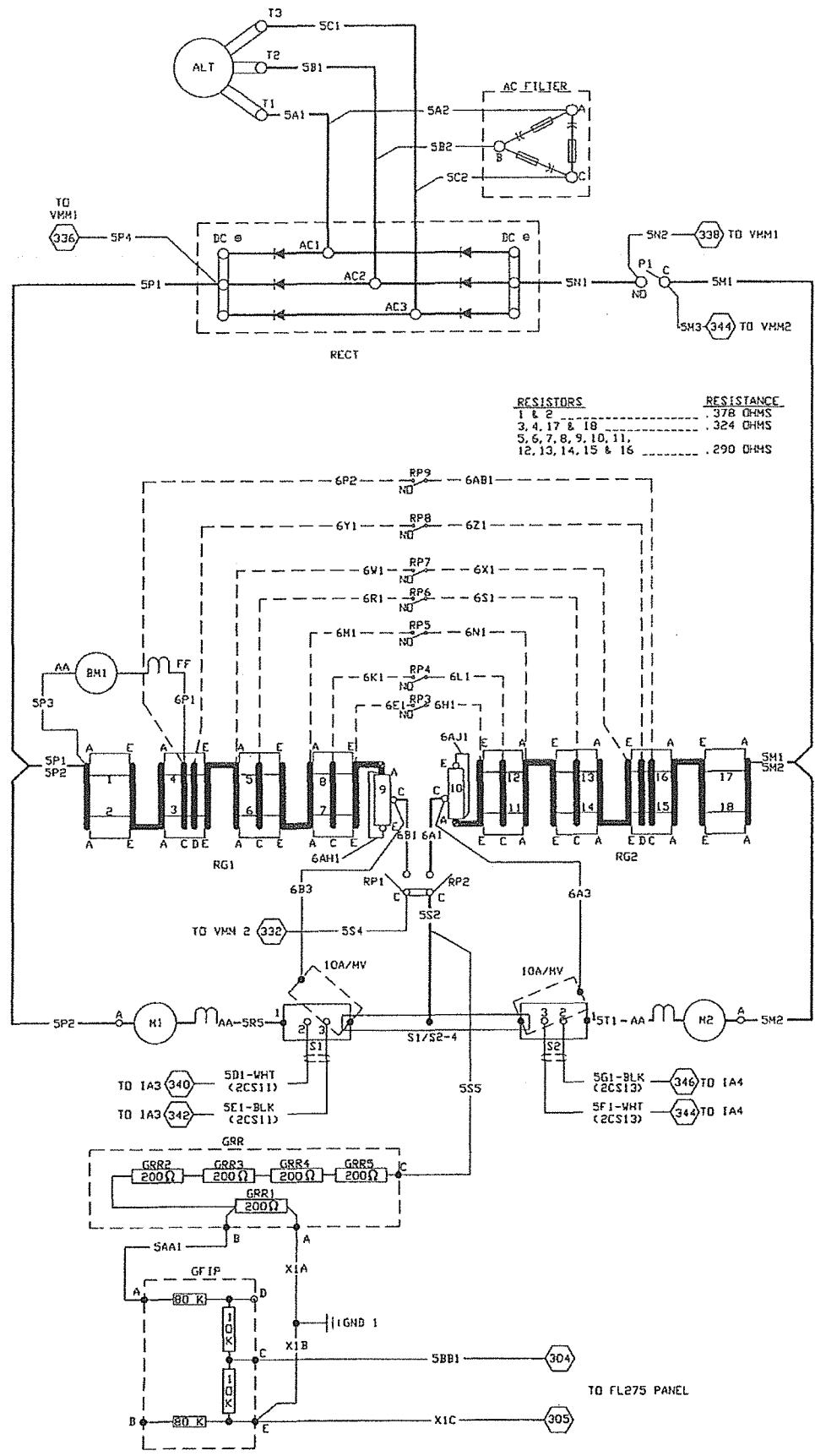
ELECTRICAL SCHEMATIC  
POWER / CONTROL  
SHEET 2B OF 10  
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RESISTORS	RESISTANCE
1 & 2	.378 OHMS
3, 4, 17 & 18	.324 OHMS
5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 & 16	.290 OHMS

18 GRIDS, 7 STEP ERR. & P1 ONLY



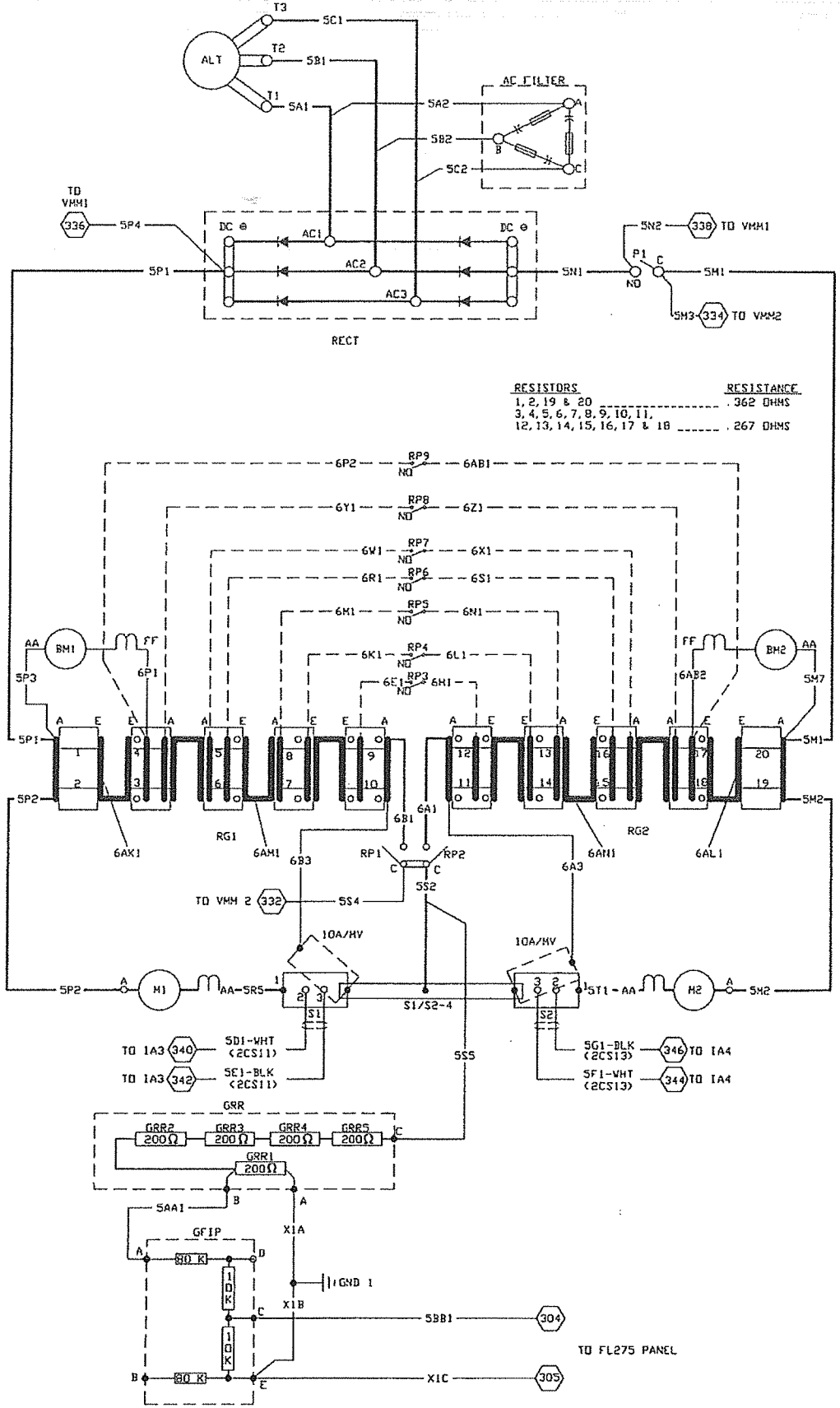
ELECTRICAL SCHEMATIC  
 POWER / CONTROL  
 SHEET 2C OF 10  
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RESISTORS	RESISTANCE
1, 2, 19 & 20	362 OHMS
3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 & 18	267 OHMS

20 GRIDS, 7 STEP ERR  
UNIT RIG  
ELECTRICAL SCHEMATIC  
POWER / CONTROL  
SHEET 2D OF 10  
S10492

EN. NO.

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REL. DC

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REL. DC

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S10492

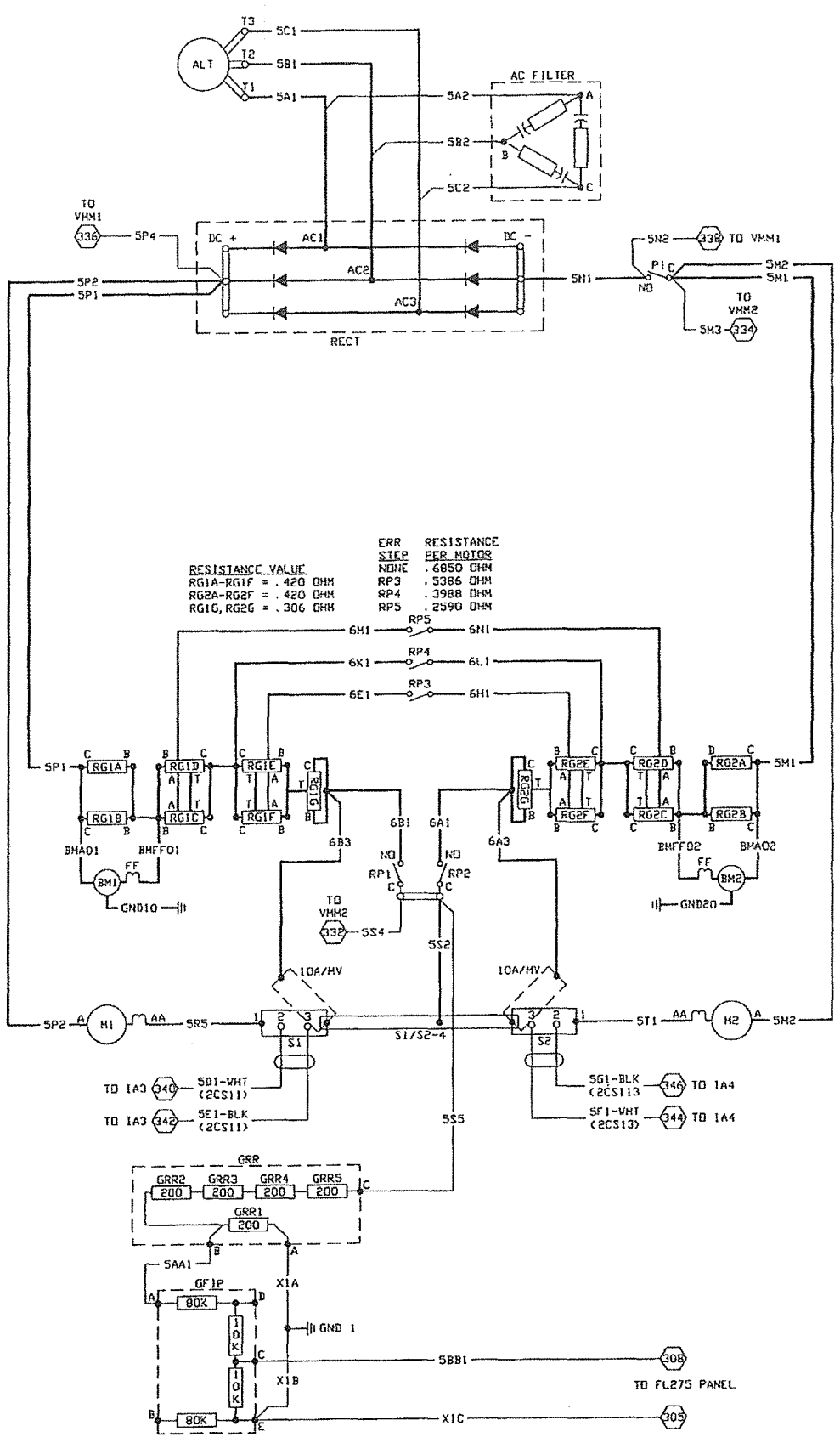
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FOR CABLES CONNECTED TO GR1D BOX - GE VS UNIT RIG CABLE 1 P1S=5M1 P2S=5P1 RP1S1=6B1 RP1S2=6B3 RP2S1=6A1 RP2S2=6A3 RP3H=6H1 RP3S=6E1 RP4H=6L1 RP4S=6K1 RP5H=6H1 RP5S=6H1

14 GR1DS. 3 STEP ERR. & P1 DMLY



ELECTRICAL SCHEMATIC POWER / CONTROL SHEET 2E OF 10 S10492



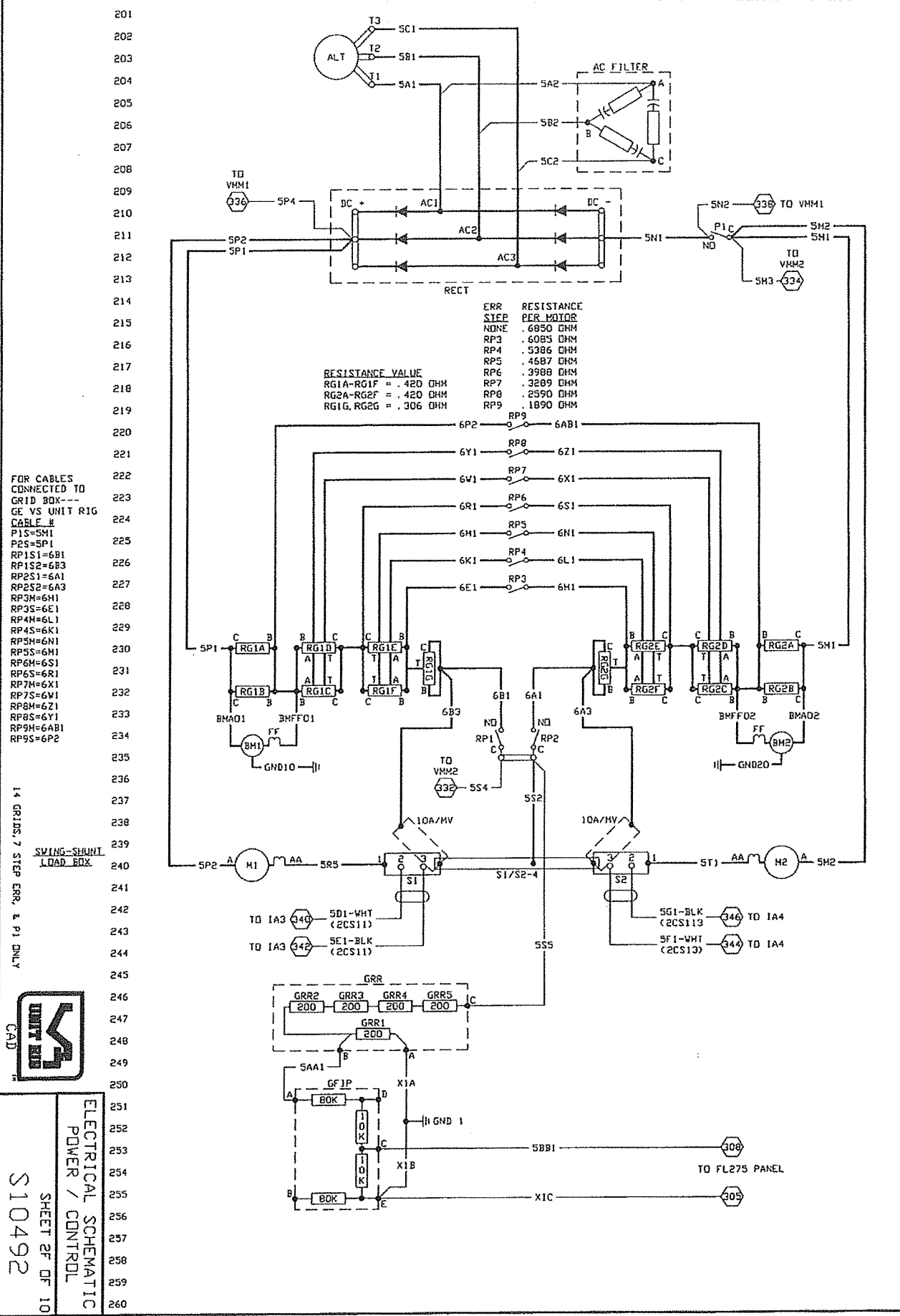
RESISTANCE VALUE	ERR RESISTANCE
RG1A-RG1F = .420 OHM	SIFP PER HOUR
RG2A-RG2F = .420 OHM	NDNC .6850 OHM
RG1G, RG2G = .306 OHM	RP3 .5386 OHM
	RP4 .3988 OHM
	RP5 .2590 OHM

TO VHM1 (336) SP4  
TO VHM2 (332) S54  
TO VHM2 (334) S52  
TO VHM2 (334) S55  
TO FL275 PANEL (305) SBB1  
TO FL275 PANEL (305) X1C

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S10492



ERR STEP	RESISTANCE PER MOTOR
NONE	.6850 OHM
RP3	.6085 OHM
RP4	.5386 OHM
RP5	.4687 OHM
RP6	.3988 OHM
RP7	.3289 OHM
RP8	.2590 OHM
RP9	.1891 OHM

RESISTANCE VALUE
RG1A-RG1F = .420 OHM
RG2A-RG2F = .420 OHM
RG1G, RG2G = .306 OHM

FOR CABLES CONNECTED TO GRID BOX---  
GE VS UNIT RIG  
CABLE #  
P1S=5M1  
P2S=5P1  
RP1S1=6B1  
RP1S2=6B3  
RP2S1=6A1  
RP2S2=6A3  
RP3M=6H1  
RP3S=6E1  
RP4M=6L1  
RP4S=6K1  
RP5M=6N1  
RP5S=6M1  
RP6M=6S1  
RP6S=6R1  
RP7M=6X1  
RP7S=6V1  
RP8M=6Z1  
RP8S=6Y1  
RP9M=6AB1  
RP9S=6P2

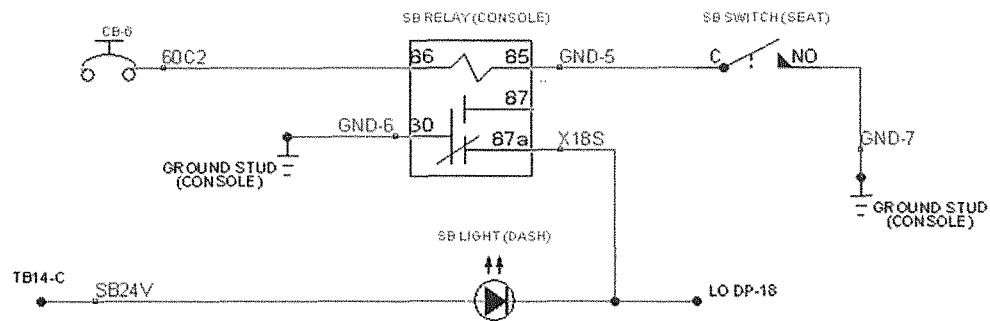
14 GRIDS, 7 STEP ERR, & P1 ONLY



ELECTRICAL SCHEMATIC  
POWER / CONTROL  
SHEET 2F OF 10  
S10492







Title SEAT BELT LIGHT		
Author BK		
File C:\Users\Bran ... Borax Seat Belt Light 2.dsn	Document	
Revision 1.0	Date 8-9-18	Sheets 1 of 1

# TEREX MT3700B and MT4400 SELECTOR SWITCH UPDATE SCHEMATICS

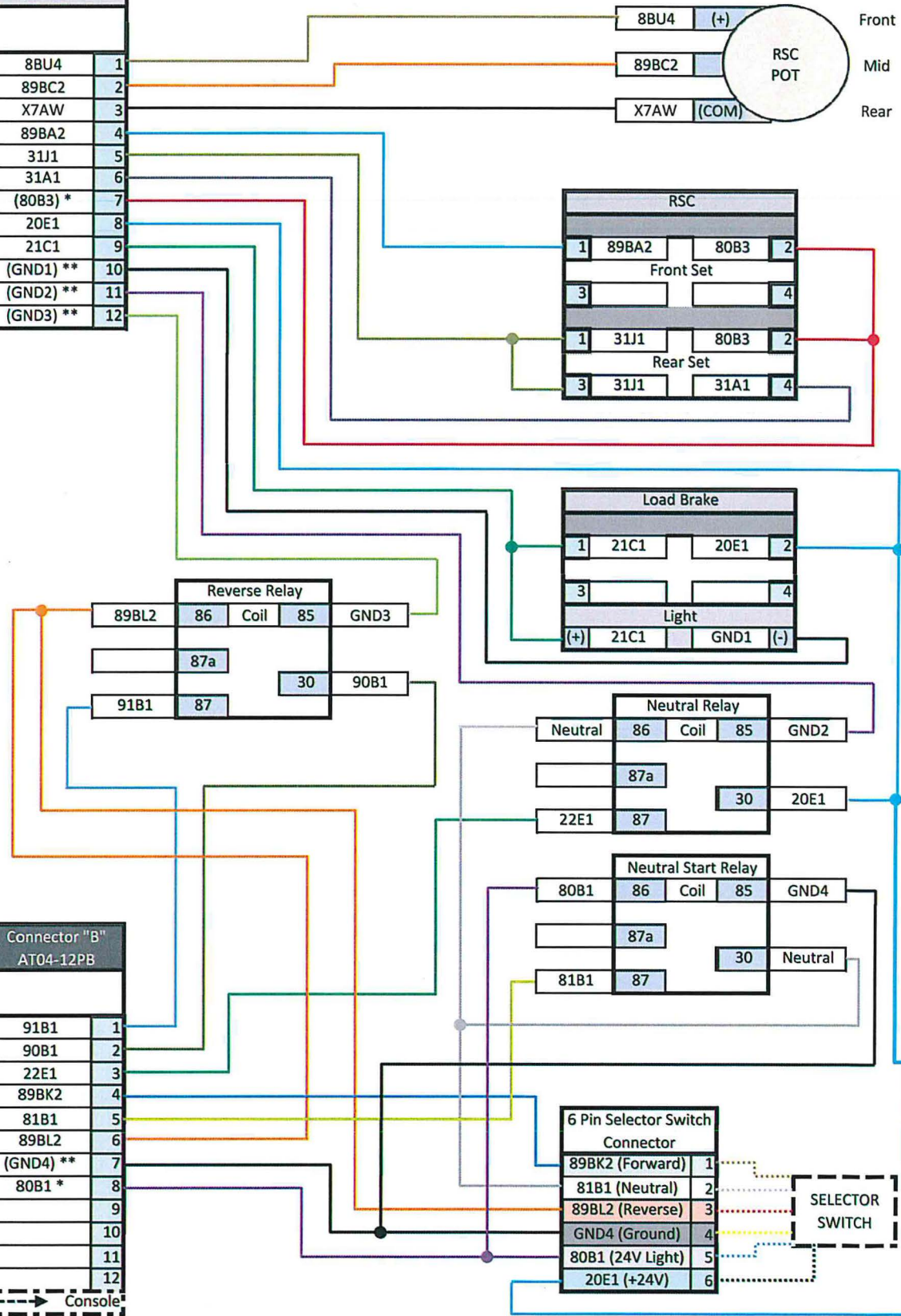
Truck	Connector "A"	Connector "A"	Console
	AT06-12SA	AT04-12PA	
TO:			
	TB14-J	8BU4	1
	DRIVE SYSTEM	89BC2	2
	RTN18/GND	X7AW	3
	DRIVE SYSTEM	89BA2	4
	RSC INDICATOR	31J1	5
	HI DP (8)	31A1	6
	SPR TB POINT*	(80B3) *	7
	TB14-A	20E1	8
	TB15-L	21C1	9
	GROUND STUD	(GND1) **	10
	GROUND STUD	(GND2) **	11
	GROUND STUD	(GND3) **	12

\* All 80B# wires need to be terminated together on a spare terminal point in the console

\*\* All GND# wires need to be added to the truck and terminated at the nearest ground stud. Do not use RTN18.

( ) Any wire in parenthesis needs to be added on the truck side

Truck	Connector "B"	Connector "B"	Console
	AT06-12SB	AT04-12PB	
TO:			
	B/U LIGHTS	91B1	1
	TB15-B	90B1	2
	STRAD R	22E1	3
	DRIVE SYSTEM	89BK2	4
	ENG S/S SW	81B1	5
	DRIVE SYSTEM	89BL2	6
	GROUND STUD	(GND4) **	7
	SPR TB POINT*	80B1 *	8
			9
			10
			11
			12



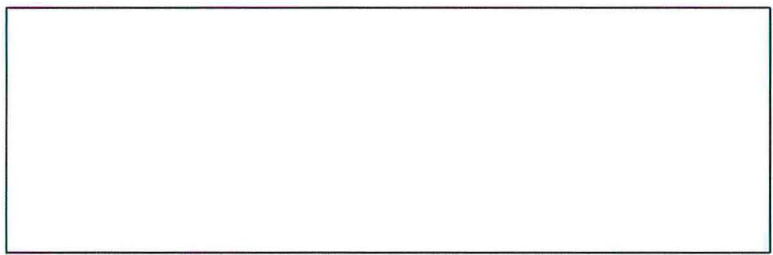
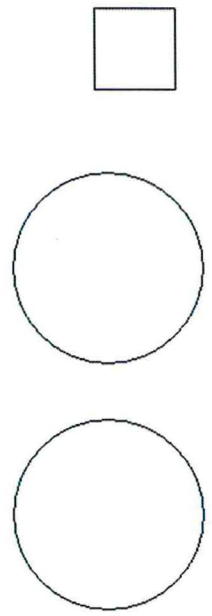
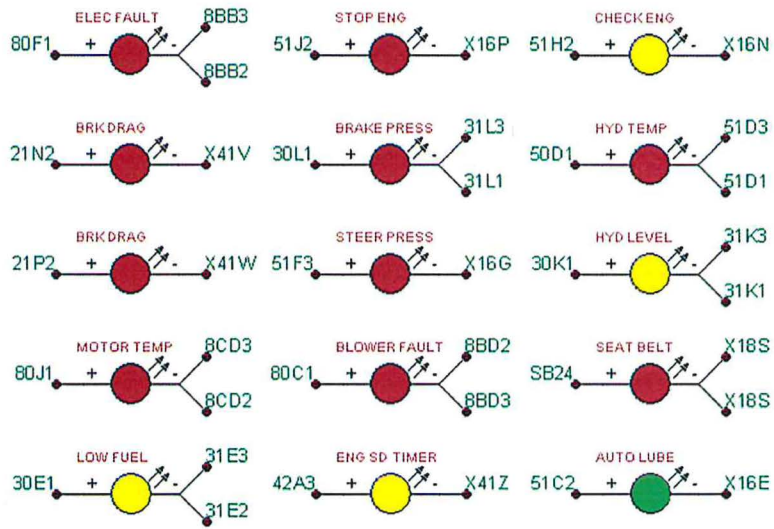
Truck ← Console

## Borax Cab Connector Pin-Out

CONTROL CABINET CONNECTOR	
PIN	WIRE
A	BLANK
B	BLANK
C	RS232 SHIELD
D	RS232 BLACK
E	RS232 WHITE
F	RS232 RED
G	8BD2
H	2CS07 SHIELD
J	2CS07 BLACK (7B4)
K	2CS07 WHITE (7A4)
L	X7CR
M	X7AX
N	89BC2
O	SPR50B
P	81W2
Q	8BB2
R	SPR50C
S	2CS08 SHIELD
T	2CS08 BLACK (7F4)
U	2CS08 WHITE (7E4)
V	8EK2
W	89BA2
X	89CR2
Y	8BW2
Z	SPR50D
a	SPR50E
b	89BB2
c	89BJ2
d	89BF2
e	SPR50F WHITE
f	89BL2
g	80A2
h	20A2
j	89CD2
k	8BU3
m	SPR50F BLACK
n	SPR50F SHIELD
p	SPR50A
q	89BK2
r	X7AW
s	89CE2
t	SPR50G WHITE
u	SPR50G BLACK
v	SPR50G RED
w	SPR50G SHIELD
x	25A11
y	90D1
z	89AW4

HYDRAULIC CONNECTOR	
PIN	WIRE
A	21H1
B	25A11
C	21C2
D	50H1
E	51B2
F	41F1
G	89CR2
H	25C2
J	25B2
K	SPARE (4)
L	31L1
M	80E1
N	SPARE (3)
P	SPR53G
Q	SPR53H
R	25A4
S	SPARE (5)
T	SPARE (2)
U	52D1
V	20F1
W	81E2
X	SPR53F
Y	SPR53A
Z	51C2

CENTER CONSOLE CONNECTOR	
PIN	WIRE
A	80B1
B	91B1
C	31J1
D	81B1
E	12VOLT
F	20E1
G	89BA2
H	21C1
J	X7AW
K	89BK2
L	89BC2
M	8BU3
N	90B1
P	89BL2
Q	70B1
R	60C1
S	31A1
T	22E1
U	X18S
V	SPARE2
W	SPARE3
X	SPARE4
Y	SPARE5
Z	SPARE6



Title Borax Indicator Lights		
Author BK		
File C:\Users\Brand ... Borax Indicator Lights.dsn	Document	
Revision 1.0	Date 8-10-18	Sheets 1 of 1