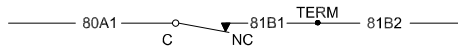


GENERAL NOTES

1 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.

2 INDIVIDUAL NUMBERS ARE ASSIGNED TO EACH WIRE AND ARE SHOWN AS FOLLOWS:



3 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.

4 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.

5 CURRENT FLOW ON THIS SCHEMATIC IS FROM LEFT TO RIGHT

6 ALL DEVICES ARE SHOWN IN THEIR NORMAL OR DE-ENERGIZED POSITION

7 A COMMON CHASSIS GROUND SYSTEM IS USED. ALL GROUND WIRES BEGIN WITH "X" AND ARE CONNECTED TO SPECIFIC GROUND POINT OR A "NEAREST" GROUND POINT. "NEAREST" DEFINES THE CLOSEST MOST DEPENDABLE CHASSIS GROUND POINT TO THE COMPONENT.

8 TERMINAL BOARD AND GROUND POINT LOCATIONS ARE AS FOLLOWS:
TB10 THRU TB19 & GND10 THRU GND19.....CAB
TB26 THRU TB31.....AUXILIARY JUNCTION BOX
TB30, 32 THRU TB39 & GND30 THRU GND39.....FRAME
TB50 THRU TB59 & GND50 THRU GND59.....SUPERSTRUCTURE
TB60 THRU TB69 & GND60 THRU GND69.....AXLEBOX

ITEM	DESCRIPTION	SCHEMATIC	TRUCK
11H D	11H DIODE (BETWEEN X15A AND TB11H)	557	CAB
24/12V CONV	24/12V DC CONVERTOR	645	CAB
24V ALT	24 VOLT ALTERNATOR	912	ENGINE
AA1, AA2	AUDIBLE ALARM 1, 2	354	CAB
ABXSVLT SW	AXLE BOX SERVICE LIGHT SWITCH	452	AXLE BOX
AC CMP	AIR CONDITIONER COMPRESSOR	658, 946	ENGINE
AL PSW	AUTO LUBE PRESSURE SWITCH	630	HYDRAULIC BOX
AL TMR	AUTO LUBE TIMER	633	CAB
ALS1V SOL	AUTO LUBE SV1 SOLENOID	628	S/S
ALT SW	AUTO LUBE TEST SWITCH	627	CAB

BIS	BATTERY ISOLATION STATION	1128	FRAME
BDRG IND	BRAKE DRAG INDICATOR	1234	CAB
BU H	BACK UP HOOTER	758	AXLE BOX
CE IND	CHECK ENGINE INDICATOR	357, 1040	CAB
CAN GA	CAN GAUGES	1101	CAB
CS	CERAMIC STANDOFF	653	CAB
DBU IND	DUMP BODY UP INDICATOR	728	CAB
DC/AC CONV1	DC/AC CONVERTOR 1 (DASH PANEL)	415	CAB
DC/AC CONV2	DC/AC CONVERTOR 2 (SHIFT TOWER)	415	SHIFT TOWER
DOME LT	DOME LIGHT	459	CAB
DPU	DPU (DATA LOGGER)	953	CAB
DS SW	DATA STORE SWITCH	735	CAB
ECT GA	ENGINE COOLANT TEMPERATURE GAUGE	255, 615, 942	CAB
ECT SN	ENGINE COOLANT TEMPERATURE SENSOR	615, 942	RADIATOR
EEK SW	EMERGENCY ENGINE KILL SWITCH	1046	CAB
EK R	ENGINE KILL RELAY	1049	CAB
EK SW	ENGINE KILL SWITCH	747, 1046	FRAME
EO PSW	ENGINE OIL PRESSURE SWITCH (CAB)	618	CAB
ES/S SW	ENGINE START/STOP SWITCH	354, 751, 1049	CAB
ESD	ENGINE SHUTDOWN DELAY	1201, 1221	CAB
ESVLT SW	ENGINE SERVICE LIGHT SWITCH	450	FRAME
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	433	CAB
	HOOTER	624	S/S
FLMD	FUEL LEVEL METER DISPLAY	1246, 1251	HYDRAULIC TANK
H/TLT SW	HEAD/TAIL LIGHT SWITCH	403	CAB
HBK XSW	HAND BRAKE PROXIMITY SWITCH	508	HYDRAULIC BOX
HBXSV LT	HYDRAULIC BOX SERVICE LIGHT	456	HYDRAULIC BOX
HI DP	HIGH SIDE DIODE PANEL	342	CAB
HIB R	HIGH BEAM RELAY	406	FRAME
HIHOT SN	HIGH HYDRAULIC OIL TEMP SENSOR	543	FRAME
HM	HOUR METER	618	CAB
HOCLR R1	HYDRAULIC OIL COOLER RELAY 1	1224	CAB
HOCLR R2	HYDRAULIC OIL COOLER RELAY 2	1228	CAB
HOLCR DIF XSW	HYDRAULIC OIL COOLER PROXIMITY SWITCH	1223	HYDRAULIC BOX
HOCLR SOL	HYDRAULIC OIL COOLER SOLENOID	1232	FRAME
HOCLR TMR	HYDRAULIC OIL COOLER TIMER	1226	CAB
INDPC	INDICATOR PANEL CONNECTOR	311, 408, 430, 439, 511, 705, 726	

LBK SOL	LOAD BRAKE SOLENOID	525	HYDRAULIC 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	CAB
LOB R	LOW BEAM RELAY	402	FRAME
LOBK PSW	LOW BRAKE PRESSURE SWITCH	539	HYDRAULIC BOX
LOF SN	LOW FUEL SENSOR	611	FRAME
LOHOL 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
MAU	MAU (DIAGNOSTIC PORT)	957	CAB
MBI SW	MASTER BATTERY ISOLATION SWITCH	201, 1151	FRAME
MF SWITCH	MULTI - FUNCTION SWITCH	403, 431	CAB
MPS SW	MANUAL POWER SUPPLY SWITCH	534	CAB
MRPHY	MURPHY PANEL	950	CAB
MSW R	MASTER SWITCH RELAY	555	CAB
PBK PSW	PARK BRAKE PRESSURE SWITCH	521	HYDRAULIC BOX
PBKAPP SOL	PARK BRAKE APPLY SOLENOID	519	HYDRAULIC BOX
PBKREL SOL	PARK BRAKE RELEASE SOLENOID	517	HYDRAULIC BOX
PBKSO SOL	PARK BRAKE SHUT OFF SOLENOID	515	HYDRAULIC BOX
PLD RH	PANEL LIGHT DIMMER RHEOSTAT	421	CAB
PLO SW	PROPEL LOCK OUT SWITCH	1243	FRAME
PTT SW	PRESS TO TEST SWITCH	340	CAB
RBU LT	RIGHT BACK UP LIGHTS	757	AXLE BOX
RCON IND	RETARD CONTINUOUS INDICATOR	742	CAB
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	FRAME
SBLT IND	SEAT BELT INDICATOR	726	CAB
SBLT R1	SEAT BELT RELAY 1	722	SHIFT TOWER
SBLT R2	SEAT BELT RELAY 2	720	SHIFT TOWER
SBLT SW	SEAT BELT SWITCH	722	CAB
SE IND	STOP ENGINE INDICATOR	359, 1044	CAB
SEI R	STOP ENGINE INDICATOR RELAY	1044	CAB
SF IND	SYSTEM FAULT INDICATOR	739	CAB
SLT SW1	STAIRWAY LIGHT SWITCH 1	446	CAB
SLT SW2	STAIRWAY LIGHT SWITCH 2	446	FRAME
SPD M	SPEEDOMETER	1104	CAB
SPD R	SPEED (EVENT) RELAY	530	CAB
SR SW	SYSTEM RESET SWITCH	732	CAB
SSW	SELECTOR SWITCH	745	SHIFTER TOWER
STRAD SOL	STEERING ACCUMULATOR DRAIN SOLENOID	557	FRAME
STRTR R	STARTER RELAY	1055	ENGINE
STRTR1	STARTER RELAY 1	904	ENGINE
STRTR2	STARTER RELAY 2	909	ENGINE
T1	TERMINAL ONE	201, 902	BATTERY BOX
TAC M	TACHOMETER	1107	CAB
TP RH	THROTTLE PEDAL RHEOSTAT	715	CAB
TX	TERMINAL X	201	BATTERY BOX
VM	VOLTMETER	1122	CAB
WR MOT	WIPER MOTOR	637	CAB
WSHR PMP	WASHER PUMP	640	HYDRAULIC BOX

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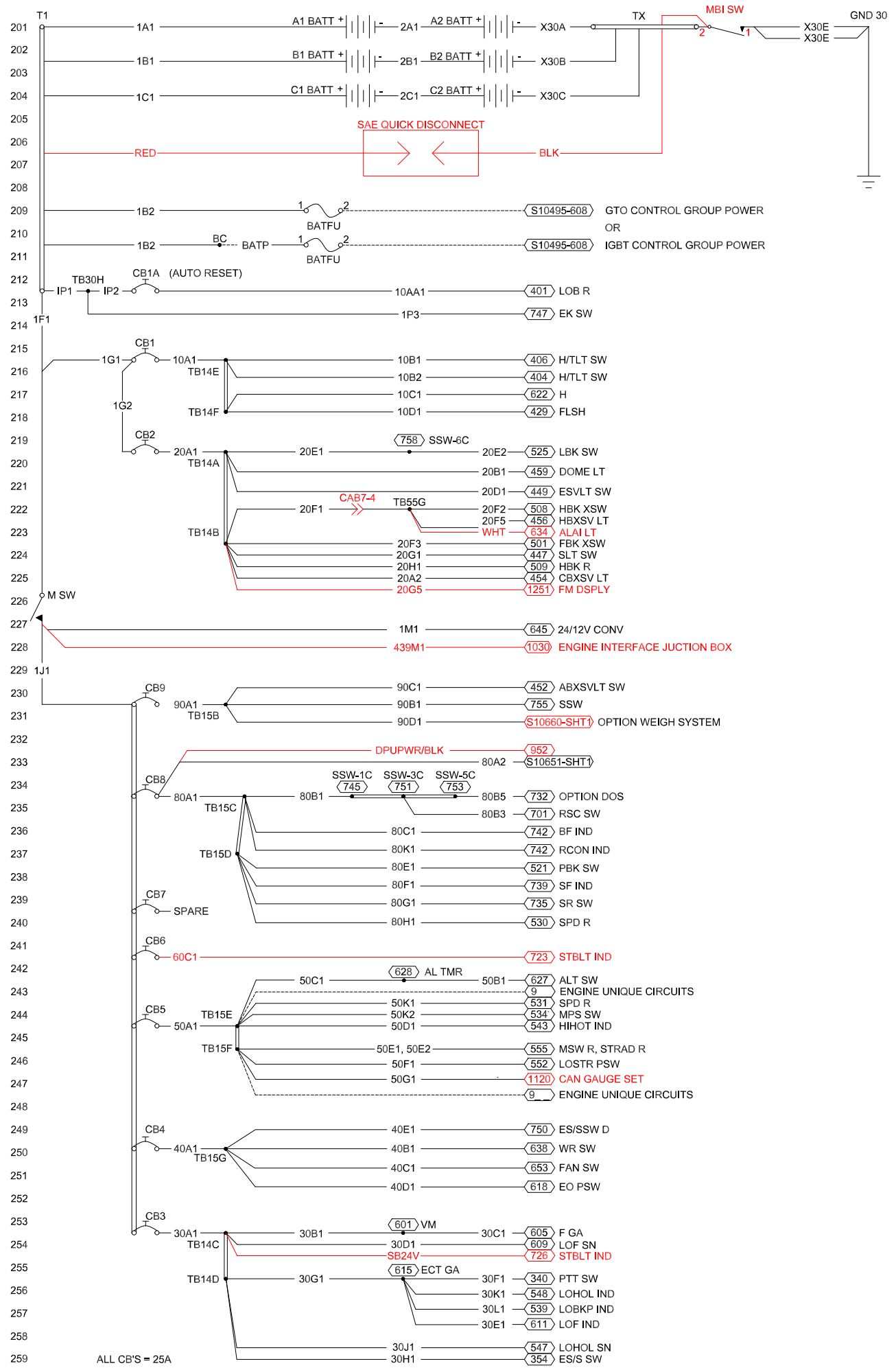
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SHEET 1 OF 12
ELECTRICAL SCHEMATIC
TRUCK 24 VOLT

MT4400 AC DRIVE SYSTEM

BATTERIES & BATTERY ISOLATION SWITCH

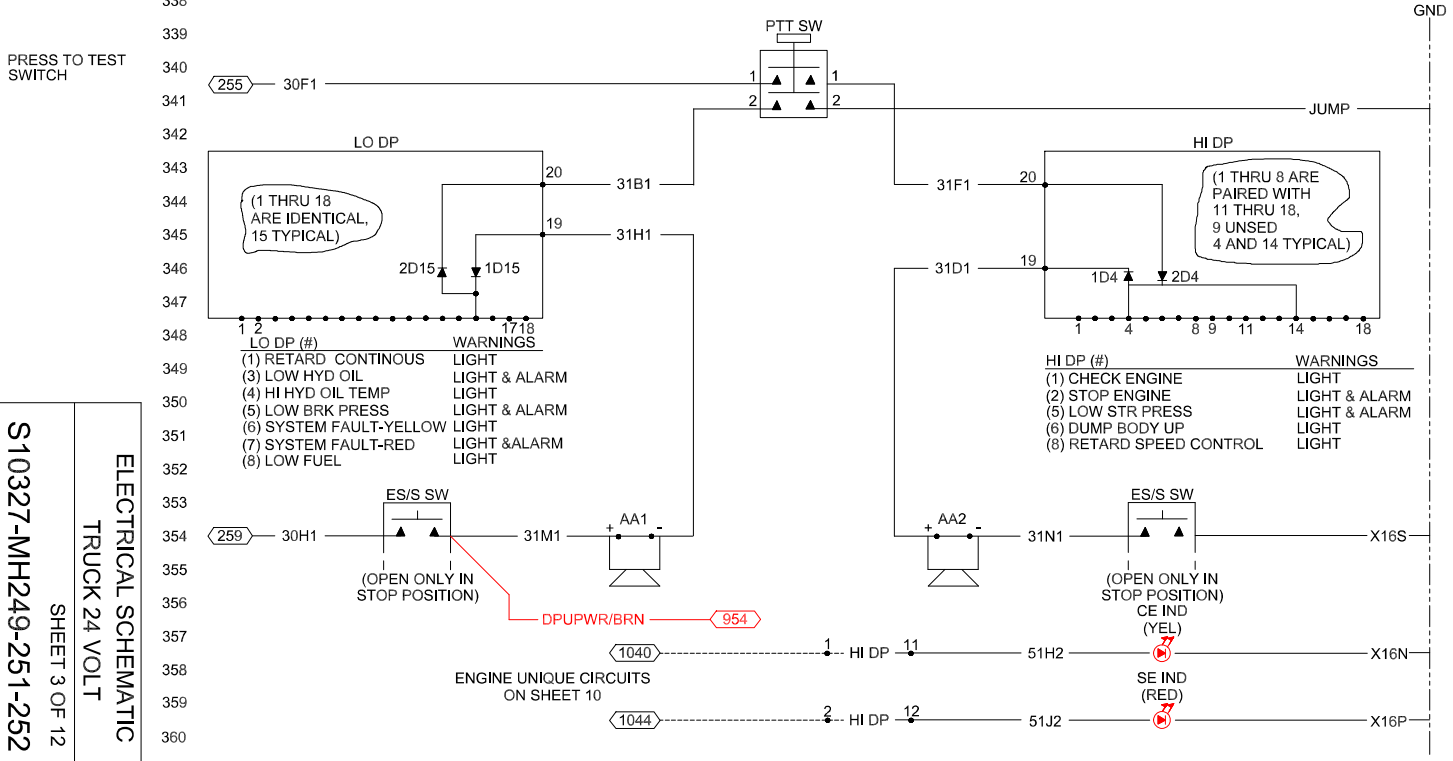
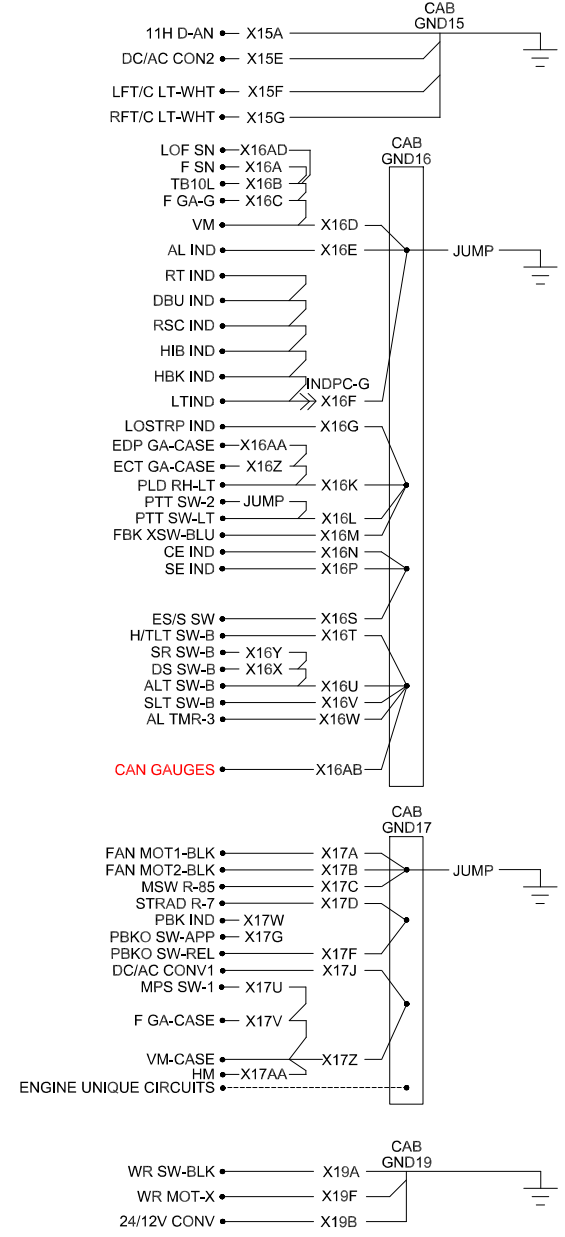
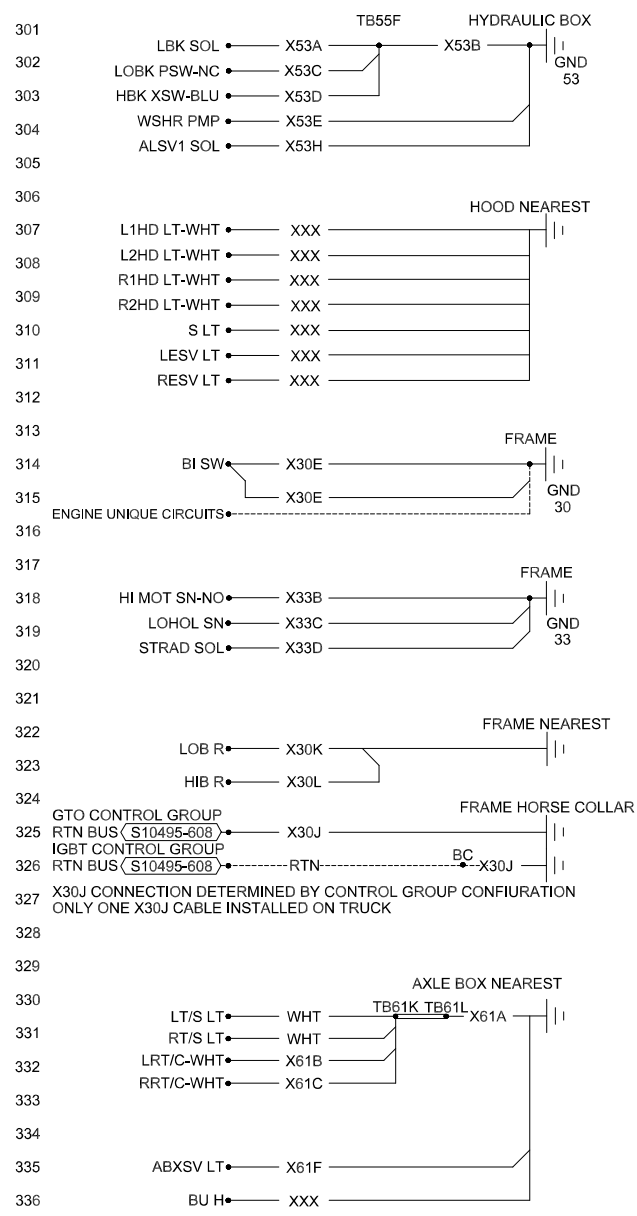
BATTERY CHARGING ASSY

MASTER SWITCH

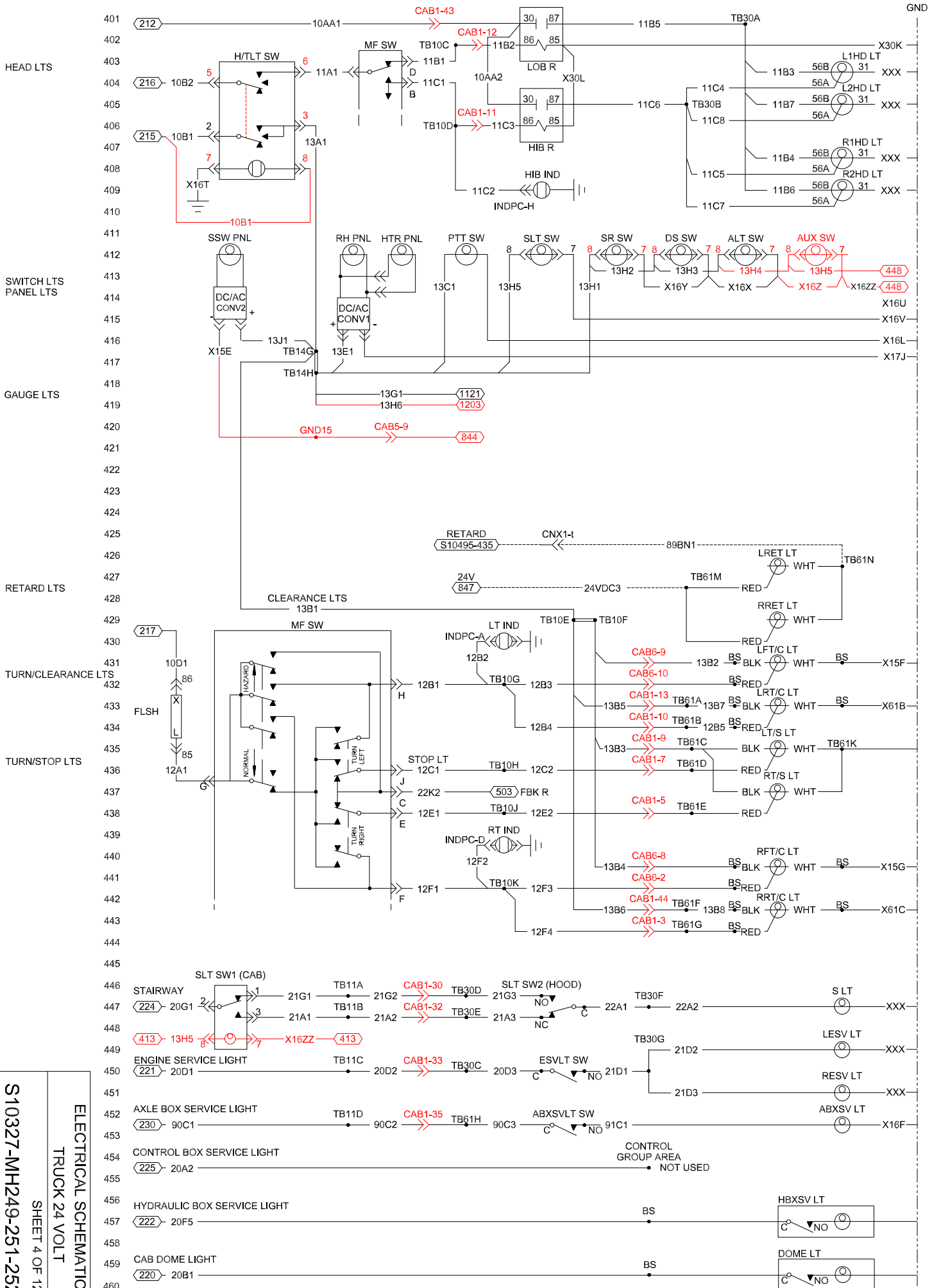


ALL CB'S = 25A

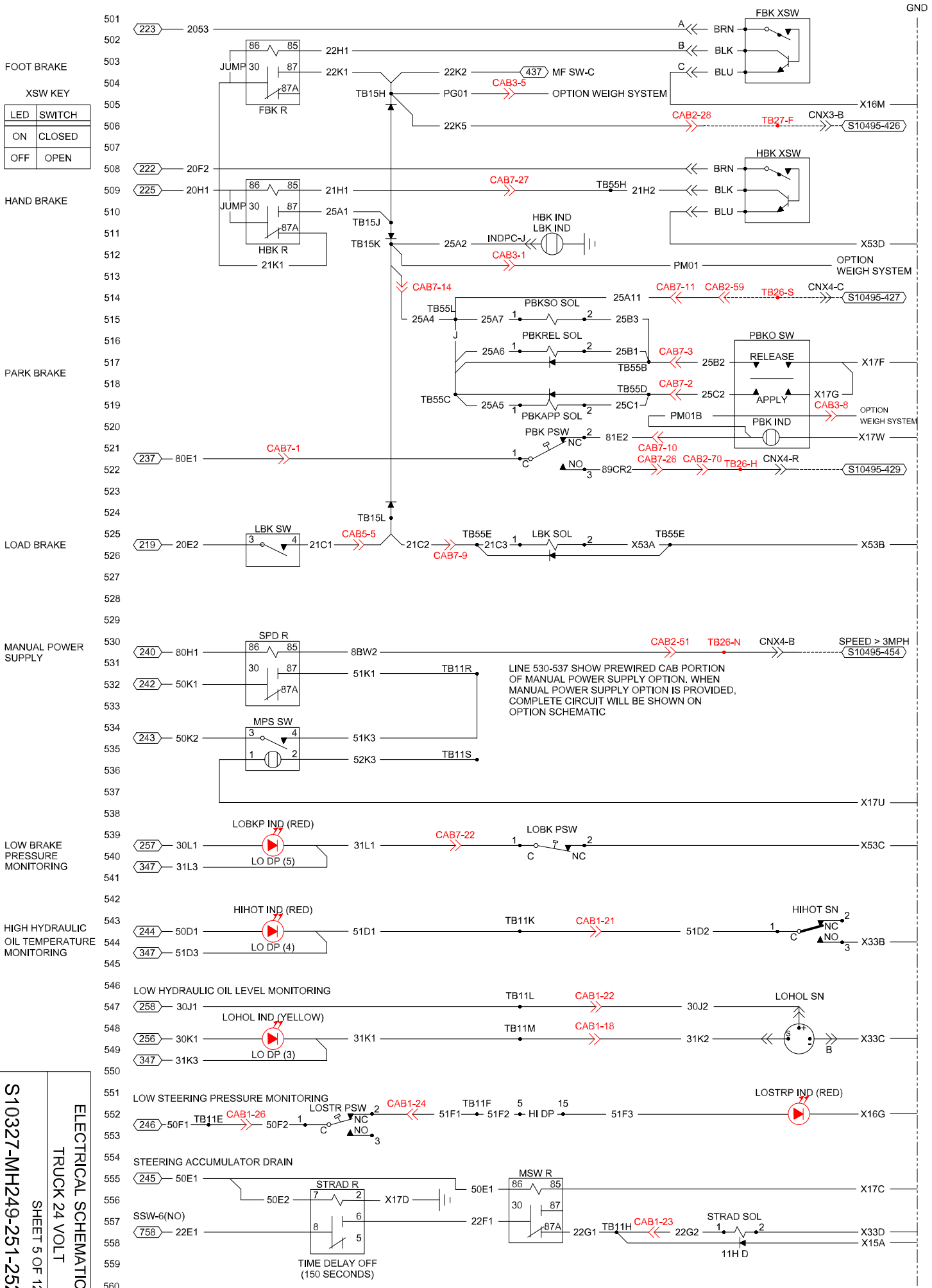
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 TRUCK 24 VOLT



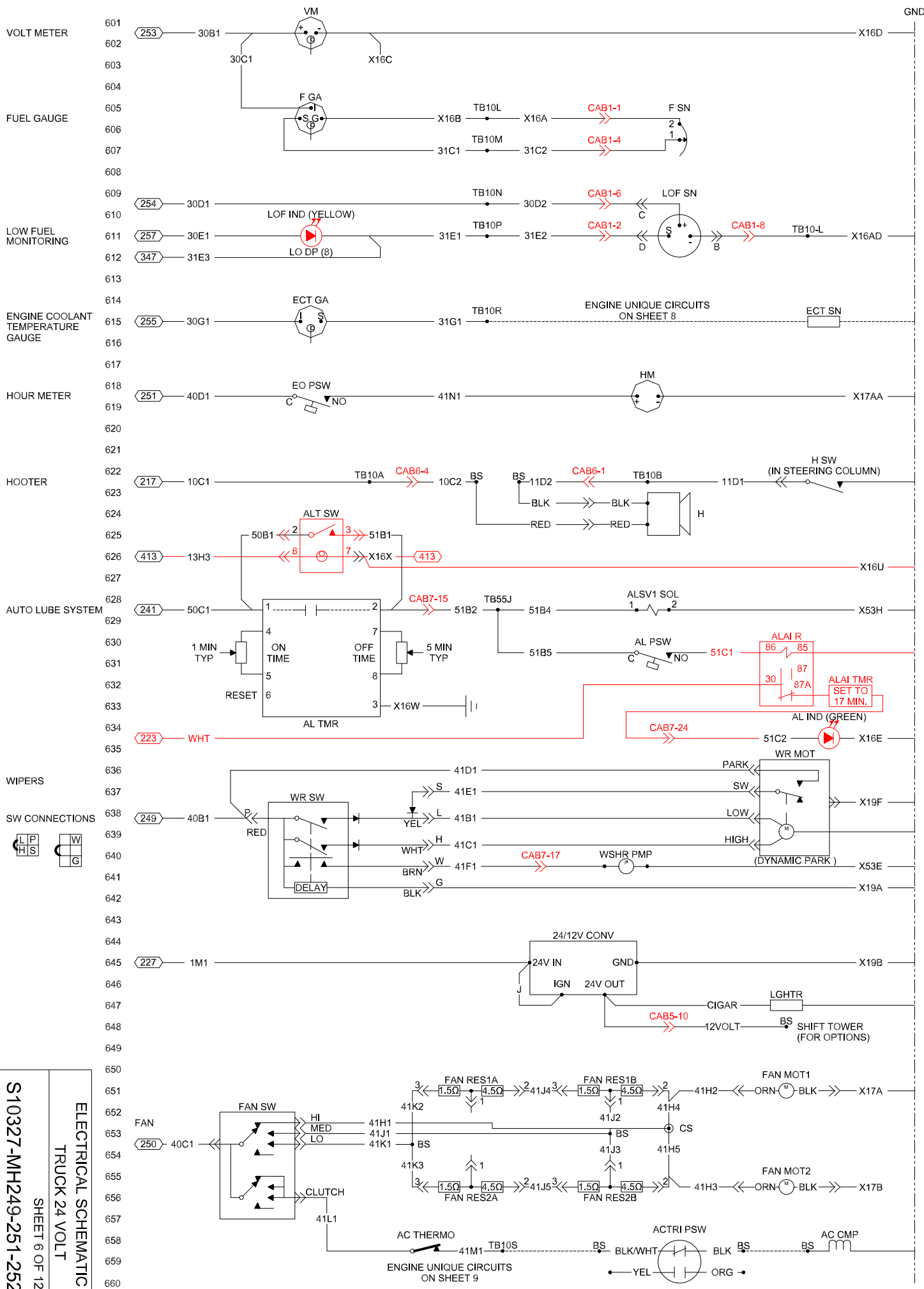
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 TRUCK 24 VOLT



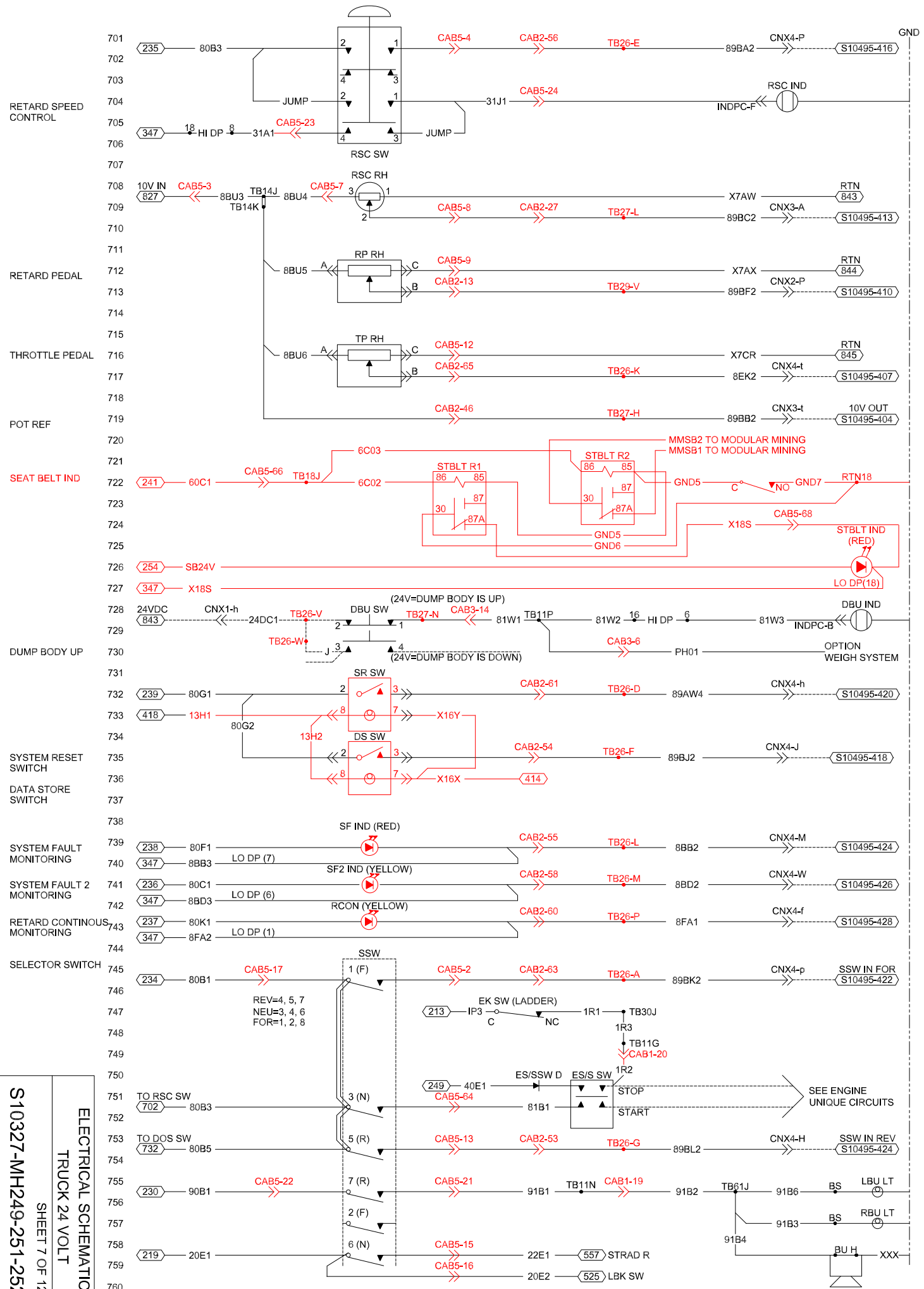
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 ELECTRICAL SCHEMATIC
 TRUCK 24 VOLT



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 ELECTRICAL SCHEMATIC
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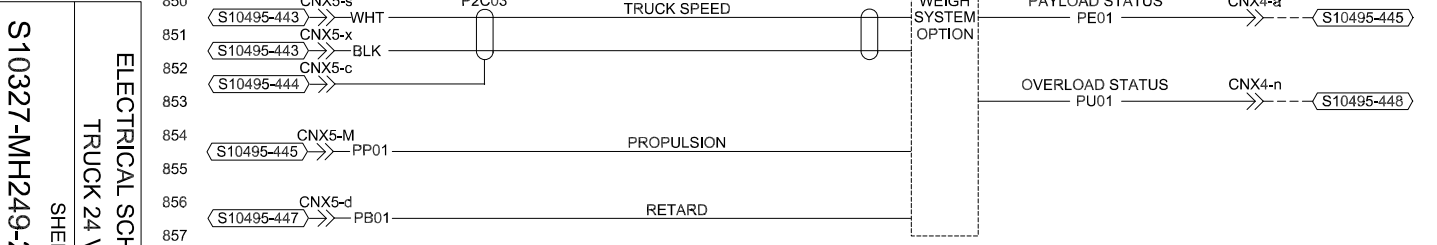
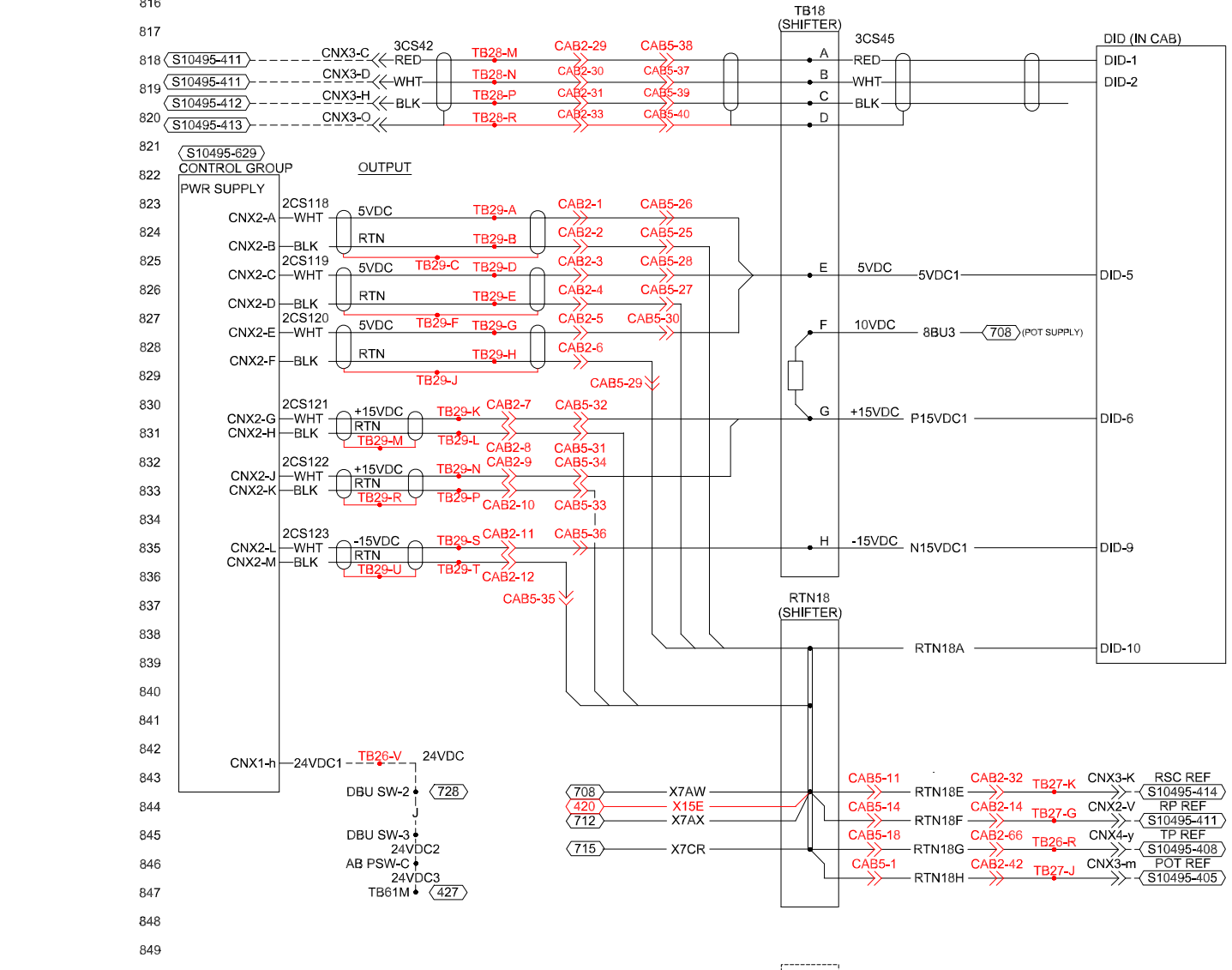
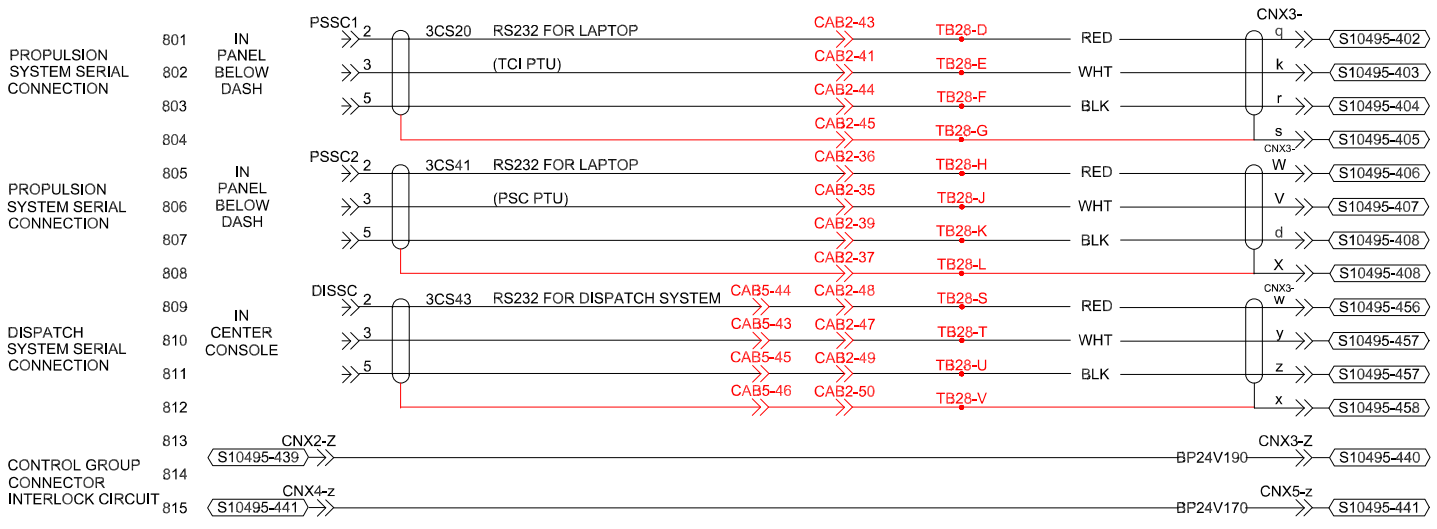


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 SHEET 6 OF 12
 ELECTRICAL SCHEMATIC
 TRUCK 24 VOLT



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ELECTRICAL SCHEMATIC
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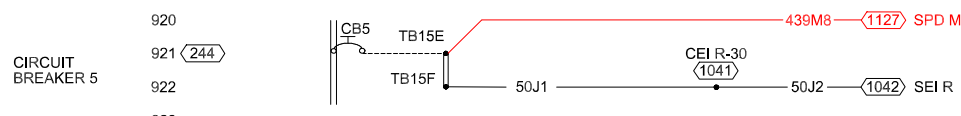
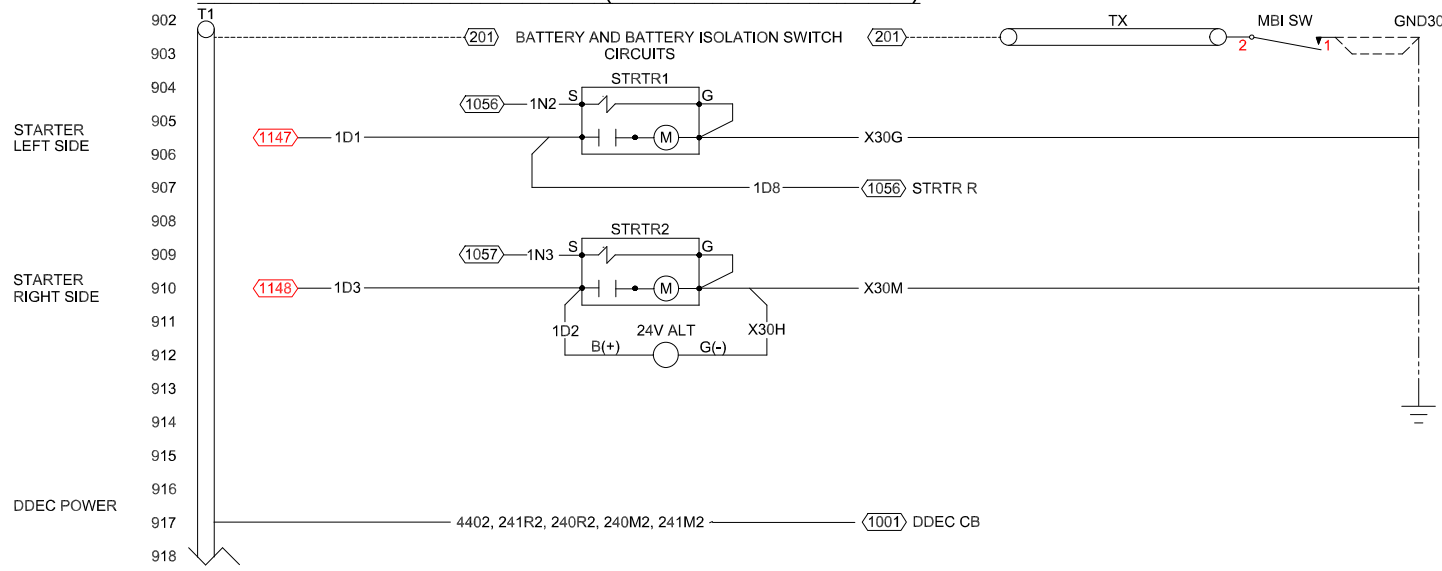
SEE ENGINE UNIQUE CIRCUITS



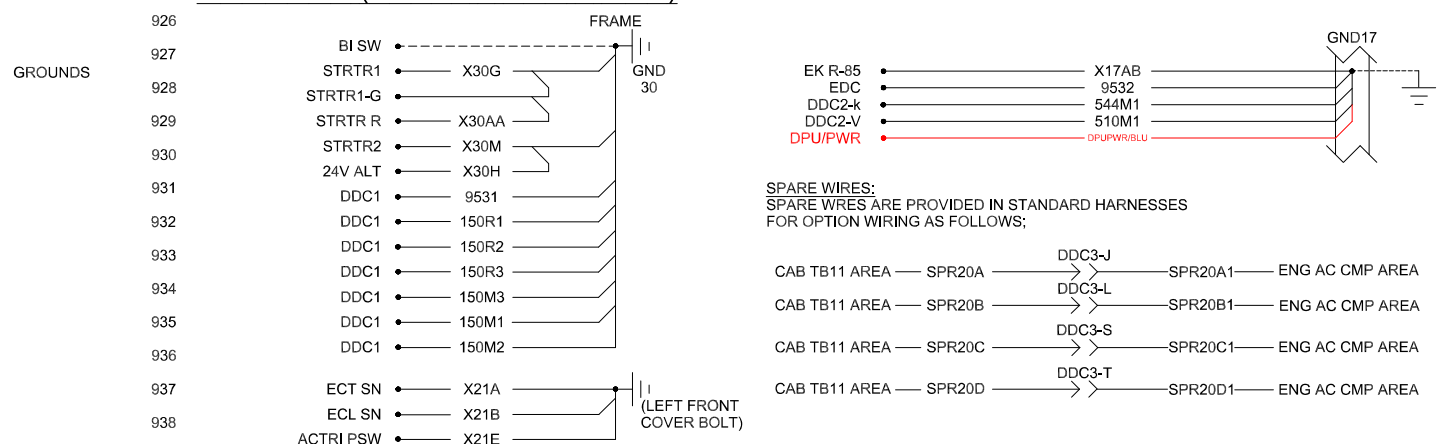
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AC SYSTEM INTERFACE

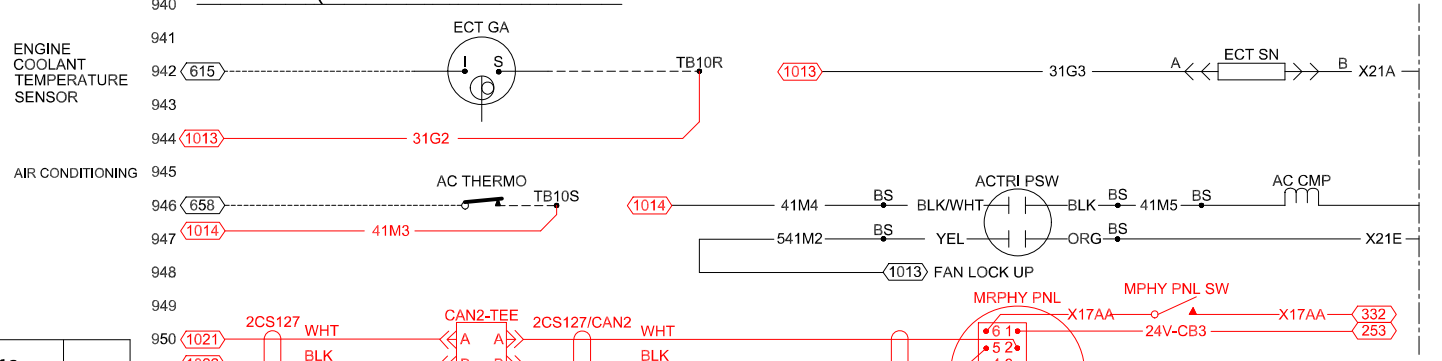
24V POWER DISTRIBUTION (SHEET 2 ADDITIONS)



GROUNDS (SHEET 3 ADDITIONS)



GAUGE (SHEET 6 ADDITIONS)

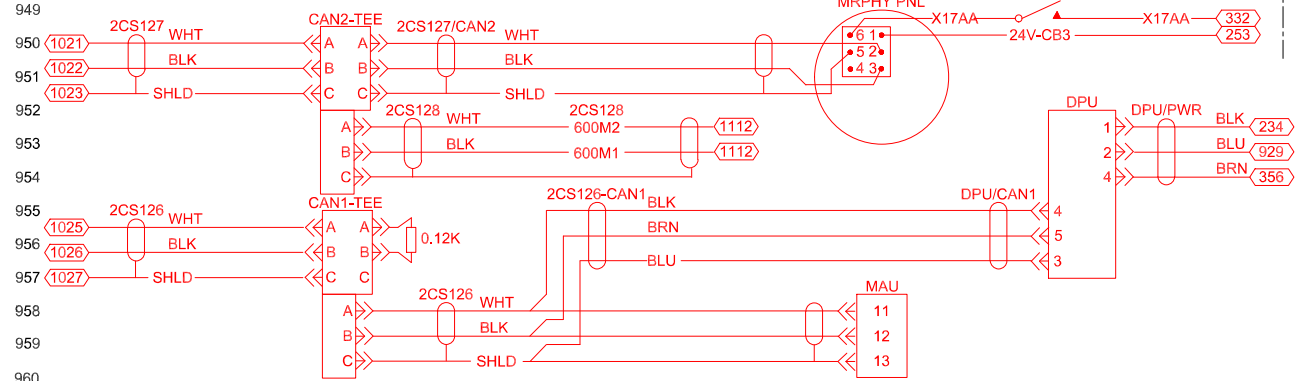


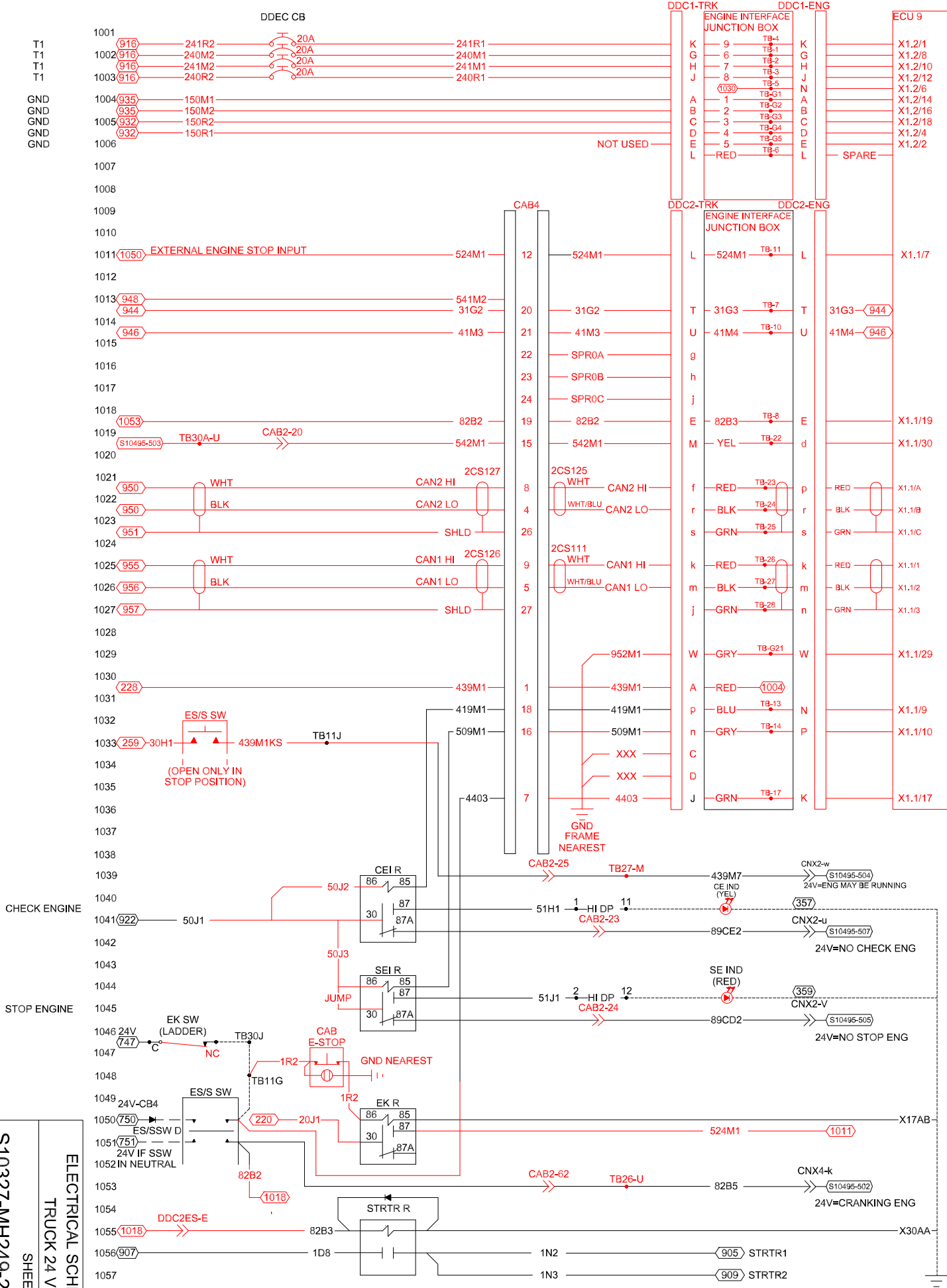
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ELECTRICAL SCHEMATIC

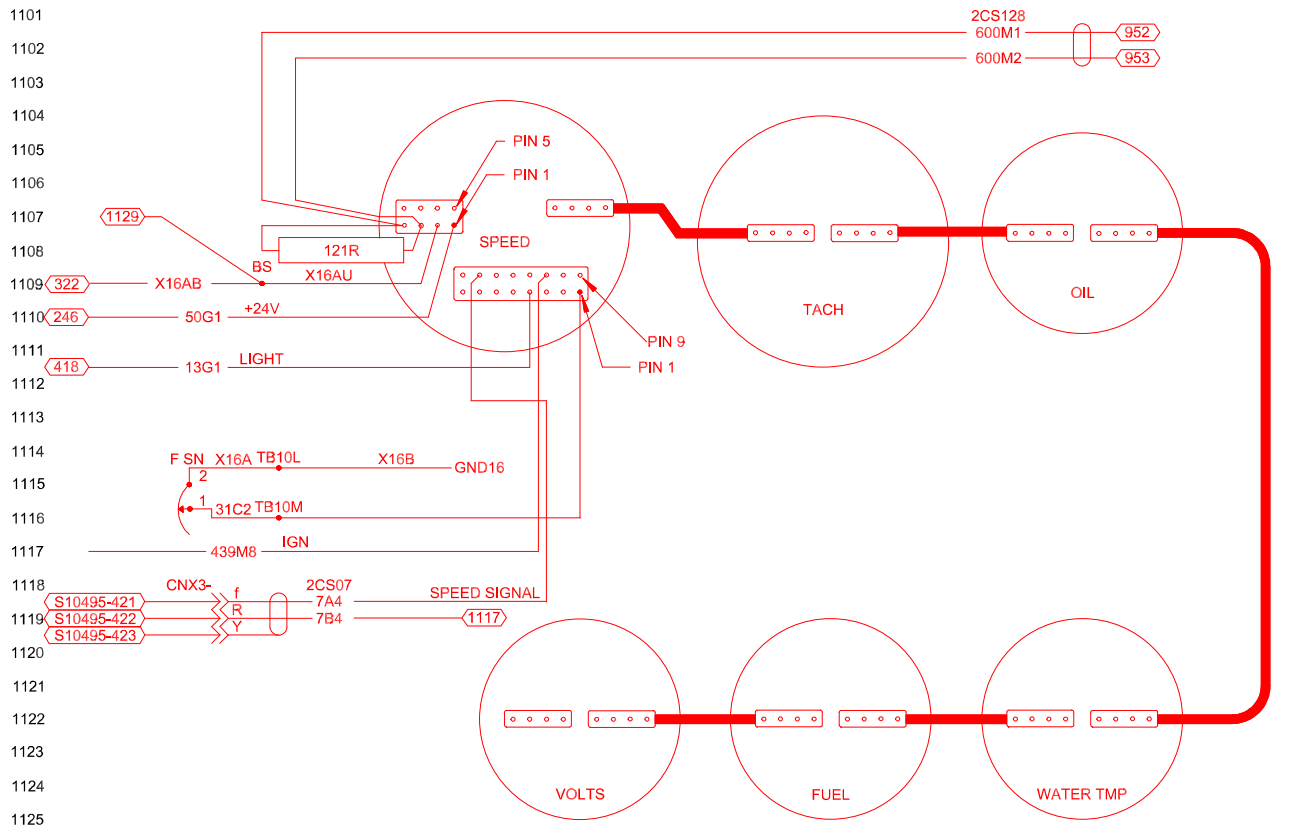
TRUCK 24 VOLT



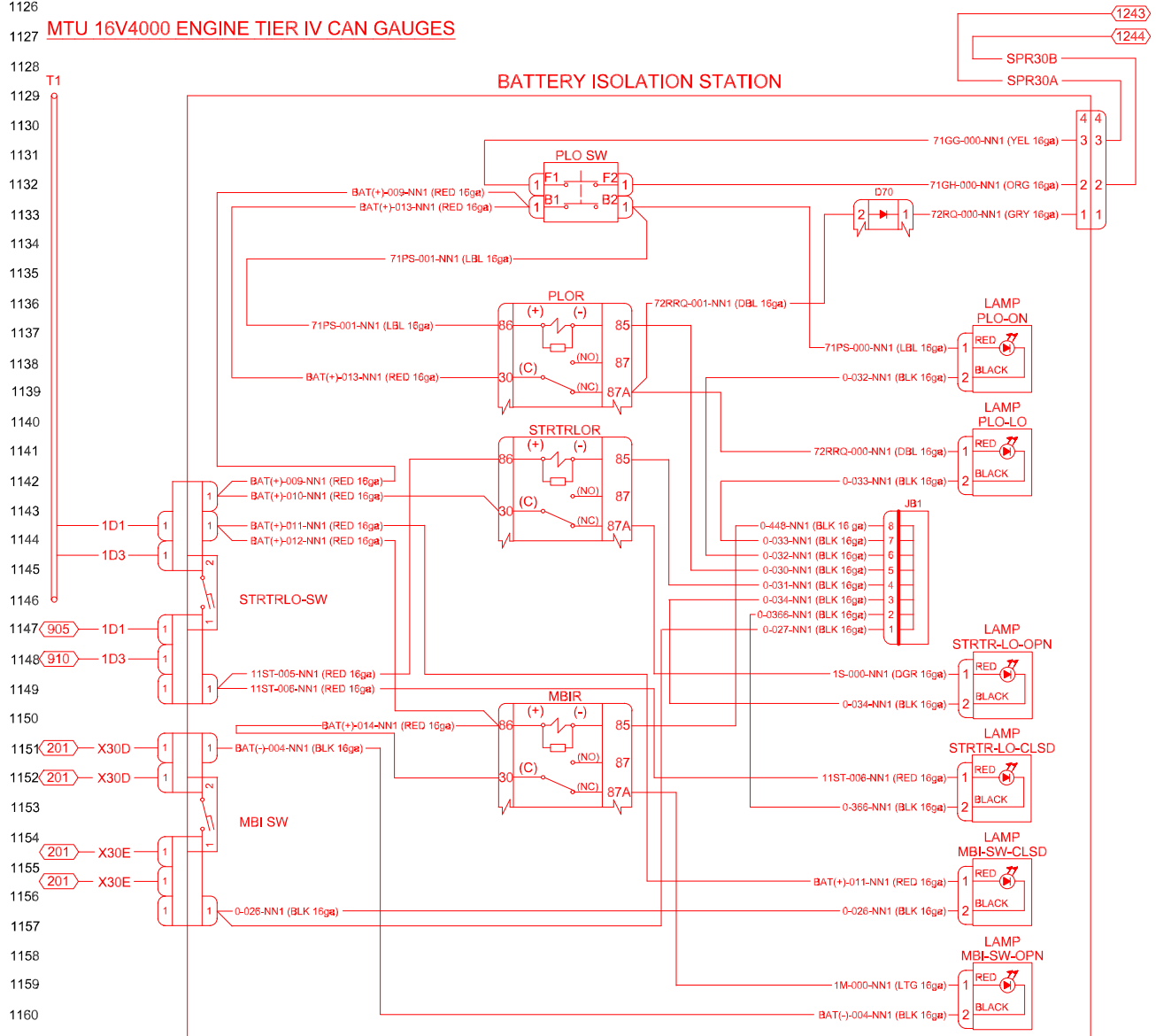


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 SHEET 10 OF 12
 ELECTRICAL SCHEMATIC
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SHEET 9 & 10---MTU 16V4000 ENGINE TIER IV

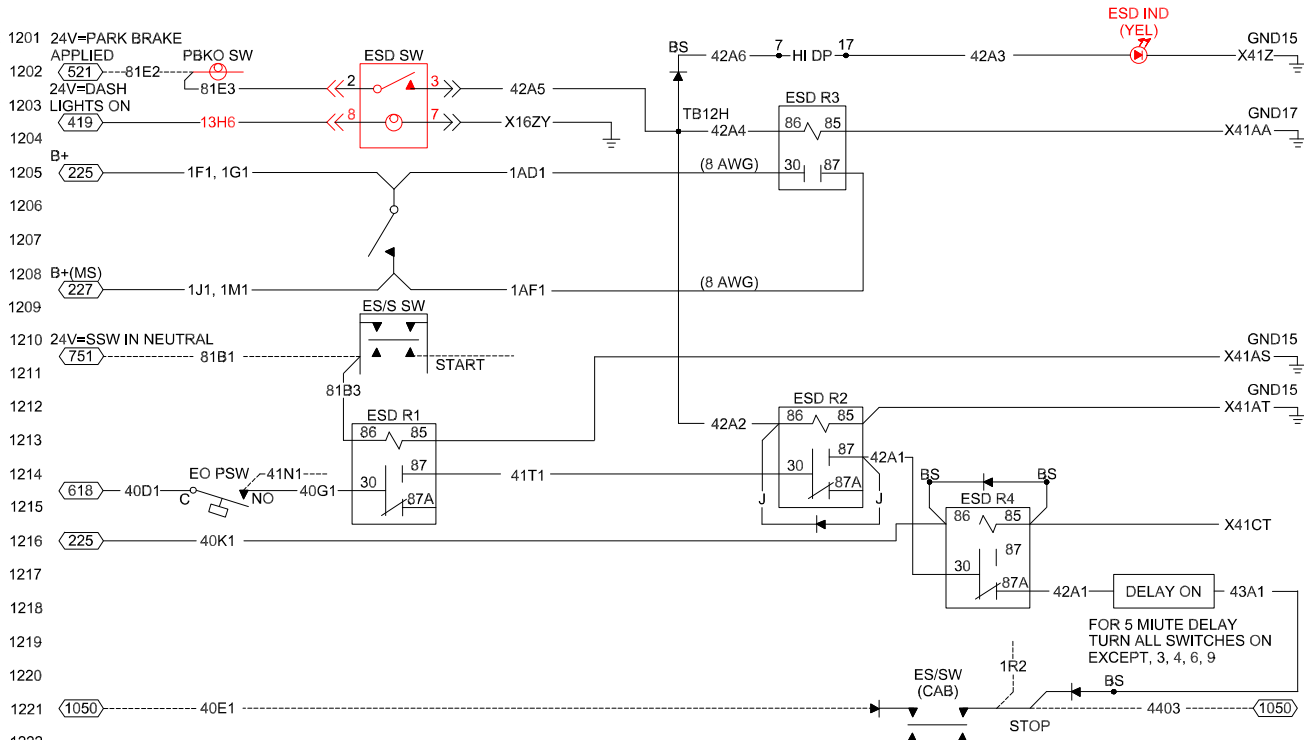


MTU 16V4000 ENGINE TIER IV CAN GAUGES

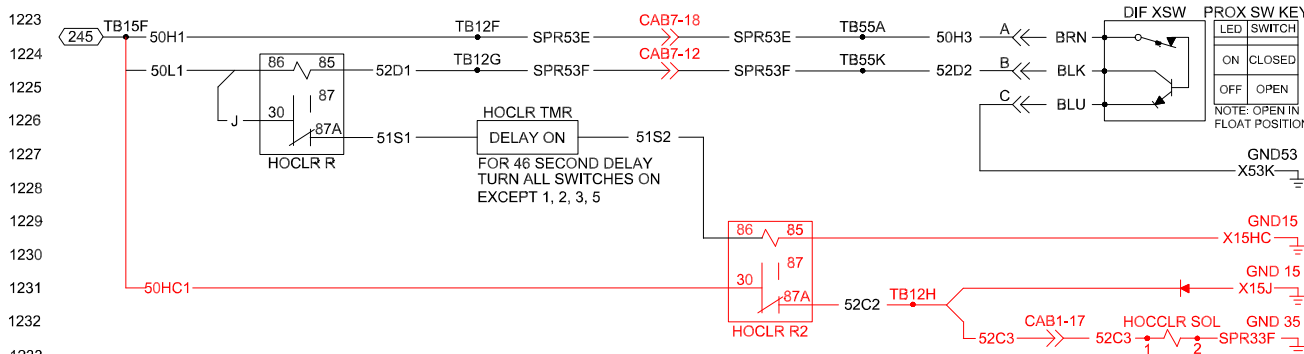


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ELECTRICAL SCHEMATIC
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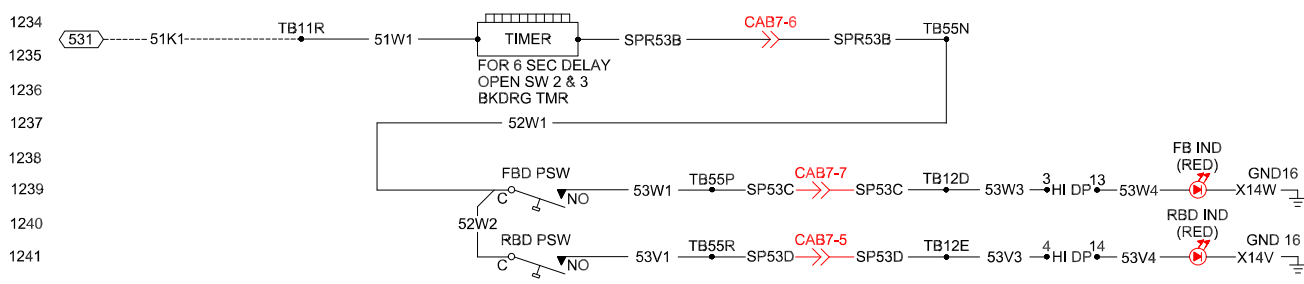
ENGINE SHUTDOWN DELAY



HYDRAULIC OIL COOLER



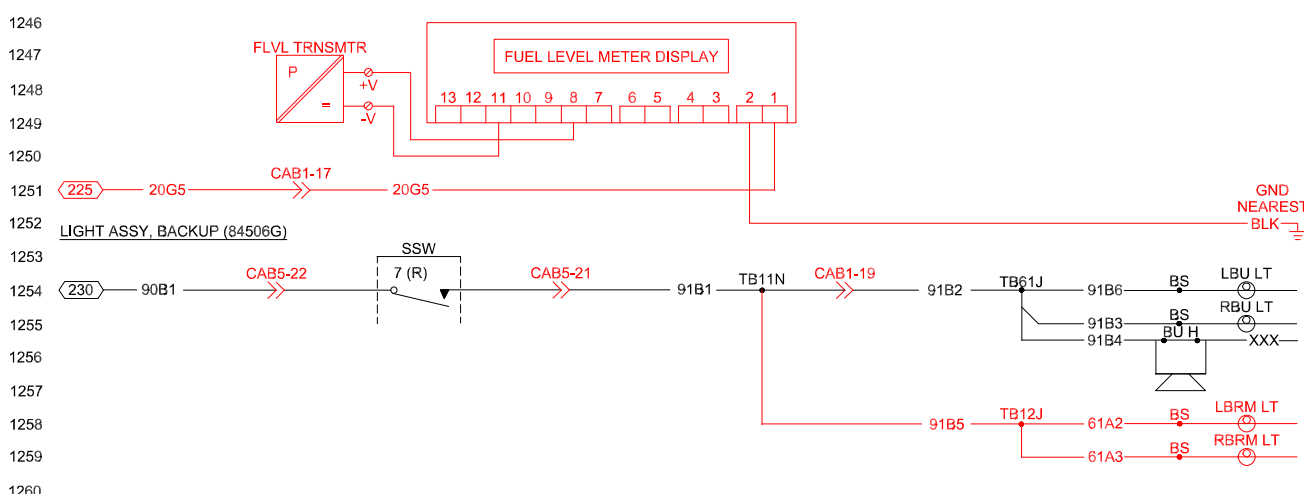
BRAKE DRAG



PROPEL LOCKOUT



FUEL METER DISPLAY



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ELECTRICAL SCHEMATIC

TRUCK 24 VOLT

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