

SECTION 3 - ELECTRICAL SYSTEM

ELECTRICAL SYSTEM
ELECTRICAL SCHEMATICS

M1585
(S/N SPECIFIC)



ELECTRICAL SYSTEM

DESCRIPTION

Each truck has two electrical systems:

1. A 24 Vdc control system to power various system functions.
2. A high voltage electrical propulsion system that serves as the propulsion and retarding system.

OPERATION

The 24 Vdc system provides the energy required to operate many of the systems that operate the truck including the engine and electrical propulsion, lights, system monitoring, and other related systems.

This system is maintained by 12 Vdc batteries connected in pairs in series with each other. On trucks with the standard electric start system, 3 or more pairs of batteries are used. On trucks equipped with optional pneumatic start, this may be reduced to a single pair.

The power for the system and to maintain the charge in the batteries is provided by an engine mounted 24 Vdc battery charging alternator. An internal voltage regulator controls its operation, keeping the batteries at their maximum state of charge.

To aid in maintenance of the system, the schematics for this system are included at the end of this module.

The high voltage propulsion system provides the power to propel the truck. The directly coupled, engine driven traction alternator provides the electrical energy which is routed to the wheelmotors in each of the rear dual tire and rim assemblies. These motors convert the electrical energy to mechanical power to propel the truck. A computer based control system monitors the operation and controls the operation of the truck's engine and traction alternator to provide efficient operation of the system.

The high voltage system also provides an operation mode called dynamic retarding. This system is used to slow the truck and control its speed on downgrades. During dynamic retarding, the truck's kinetic energy (force that keeps the truck moving) is converted by the wheelmotors (functioning as generators) into electrical energy. This energy is then dissipated to the atmosphere through air cooled grids. The energy conversion controls the wheelmotor speed. This system also controls the systems computer.

SERVICE



Turn the Master Switch and any extra battery disconnect switch Off at all times that servicing is being done on any components in the electrical system (both 24 V and high voltage).

For complete operation and service details, refer to the appropriate manufacturer's service manuals and the Unit Rig Electrical Manual.

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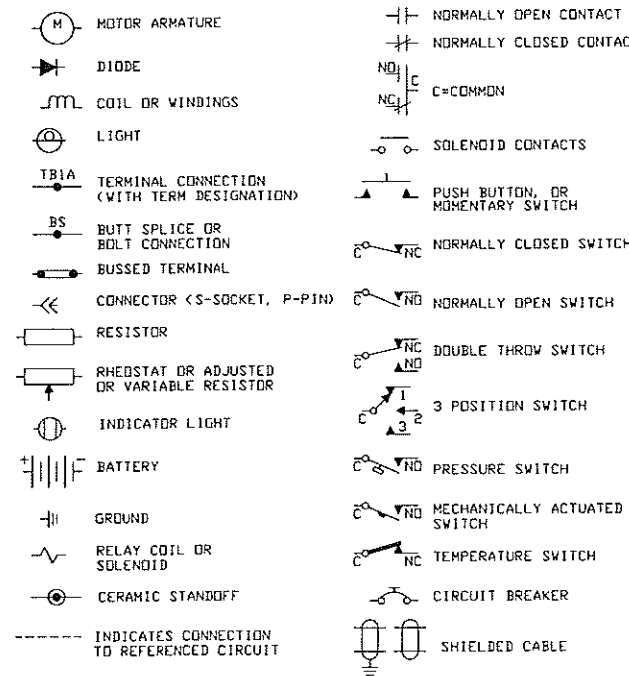
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GENERAL NOTES:

- 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..... CONTRL BDX
 TB10 THRU TB19 & GND10 THRU GND19..... CAB
 TB20 THRU TB29 & GND20 THRU GND29..... ENGINE
 TB30 THRU TB39 & GND30 THRU GND39..... FRAME
 TB40 THRU TB59 & GND40 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	AXLE BOX SERVICE LIGHT SWITCH	432	AXLE BOX
AC CMP	AIR CONDITIONER COMPRESSOR	658, 8...	ENGINE
AL PSW	AUTO LUBE PRESSURE SWITCH	630	HYD BDX
AL TMR	AUTO LUBE TIMER	633	CAB
ALS(V) SOL	AUTO LUBE SV1 SOLENOID	628	S/S
ALT SW	AUTO LUBE TEST SWITCH	627	CAB
BF IND	BLOWER FAULT INDICATOR	738	CAB
B1 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
DOME LT	DOME LIGHT	459	CAB
DOS	DUMP-UP OVERRIDE SWITCH (GE)	729	SHIFT TOWER
DS SV	DATA STORE SWITCH	733	CAB
EBFV SN	ENGINE BLOWBY FLOW SENSOR (GE)	9...	ENGINE
ECL SN	ENGINE COOLANT LEVEL SENSOR	9...	RADIATOR
ECT GA	ENGINE COOLANT TEMPERATURE GAUGE	255, 421, 615, 8...	CAB
ECT SN	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 SV	ENGINE KILL SWITCH	747, 9...	HOOD
ED PSW	ENGINE OIL PRESSURE SWITCH (CAB)	618	CAB
EDP GA	ENGINE OIL PRESSURE GAUGE	421	CAB
EDP SN	ENGINE OIL PRESSURE SENSOR (GE)	9...	ENGINE
ES/S SV	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 (1,2)	FAN MOTOR (1,2)	650, 655	CAB
FAN RES	FAN RESISTOR (1A, 1B, 2A, 2B)	650, 655	CAB
FAN SW	FAN SWITCH	653	CAB
FBR XSW	FOOT BRAKE PROXIMITY SWITCH	504	CAB
FLSH	FLASHER	433	CAB
H	HOODER	624	S/S
HV/LT SW	HEAD/TAIL LIGHT SWITCH	403	CAB
HBR XSW	HAND BRAKE PROXIMITY SWITCH	508	HYD BDX
HBRXSV LT	HYDRAULIC BOX SERVICE LIGHT	456	HYD BDX
HI DP	HIGH SIDE DIODE PANEL	342	CAB
HIB R	HIGH BEAM RELAY	406	FRAME
HIMOT SN	HIGH HYDRAULIC OIL TEMP. SENSOR	543	FRAME
HM	HOURLMETER	618	CAB
INDPC	INDICATOR PANEL CONNECTOR	311, 408, 430, 439, 511, 705,	CAB
LBK SOL	LOAD BRAKE SOLENOID	726	HYD BDX
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
LD DP	LDV SIDE DIODE PANEL	342	CAB
LOB R	LDV BEAM RELAY	402	FRAME
LOBK PSW	LDV BRAKE PRESSURE SWITCH	539	HYD BDX
LOF SN	LDV FUEL SENSOR	611	FRAME
LOHDL SN	LDV HYDRAULIC OIL LEVEL SENSOR	548	FRAME
LOSTR PSW	LDV 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
MPS SV	MULTIFUNCTION SWITCH	403, 431	CAB
MSV R	MANUAL POWER SUPPLY SWITCH	534	CAB
MSV R	MASTER SWITCH RELAY	555	CAB
PBK PSW	PARK BRAKE PRESSURE SWITCH	521	HYD BDX
PBKAPP SOL	PARK BRAKE APPLY SOLENOID	519	HYD BDX
PBKREL SOL	PARK BRAKE RELEASE SOLENOID	517	HYD BDX
PBKSO SOL	PARK BRAKE SHUT OFF SOLENOID	515	HYD BDX
PL PMP	PRELUBE PUMP (CUMMINS)	8...	FRAME
PL TMR	PRELUBE TIMER (CUMMINS)	9...	FRAME
PLD RH	PANEL LIGHT DIMMER RHEOSTAT	421	CAB
PLED PSW	PRELUBE ENGINE OIL PRESSURE SWITCH	9...	ENGINE
PLSTRTR R	PRELUBE STARTER RELAY (CUMMINS)	9...	ENGINE
PTT SW	PRESS TO TEST SWITCH	340	CAB
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	437	CAB
RT/S LT	RIGHT TURN/STOP LIGHT	439	AXLE BOX
S LT	STAIRWAY LIGHT	446	HOOD
SE IND	STOP ENGINE INDICATOR	359, 9...	CAB
SEI 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 H	SPEEDOMETER	421, 720	CAB
SPD R	SPEED (EVENT) RELAY	530	CAB
SR SW	SYSTEM RESET SWITCH	731	CAB
SSV	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 BDX
TAC M	TACHOMETER	421, 723	CAB
TP RH	THROTTLE PEDAL RHEOSTAT	715	CAB
TX	TERMINAL X	201	BATT BDX
VM	VOLTMETER	421, 601	CAB
WR MOT	WIPER MOTOR	637	CAB
WSHR PMP	WASHER PUMP	641	HYD BDX



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8B&9B	CUMMINS QSK60 QUANTUM/CENSE

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

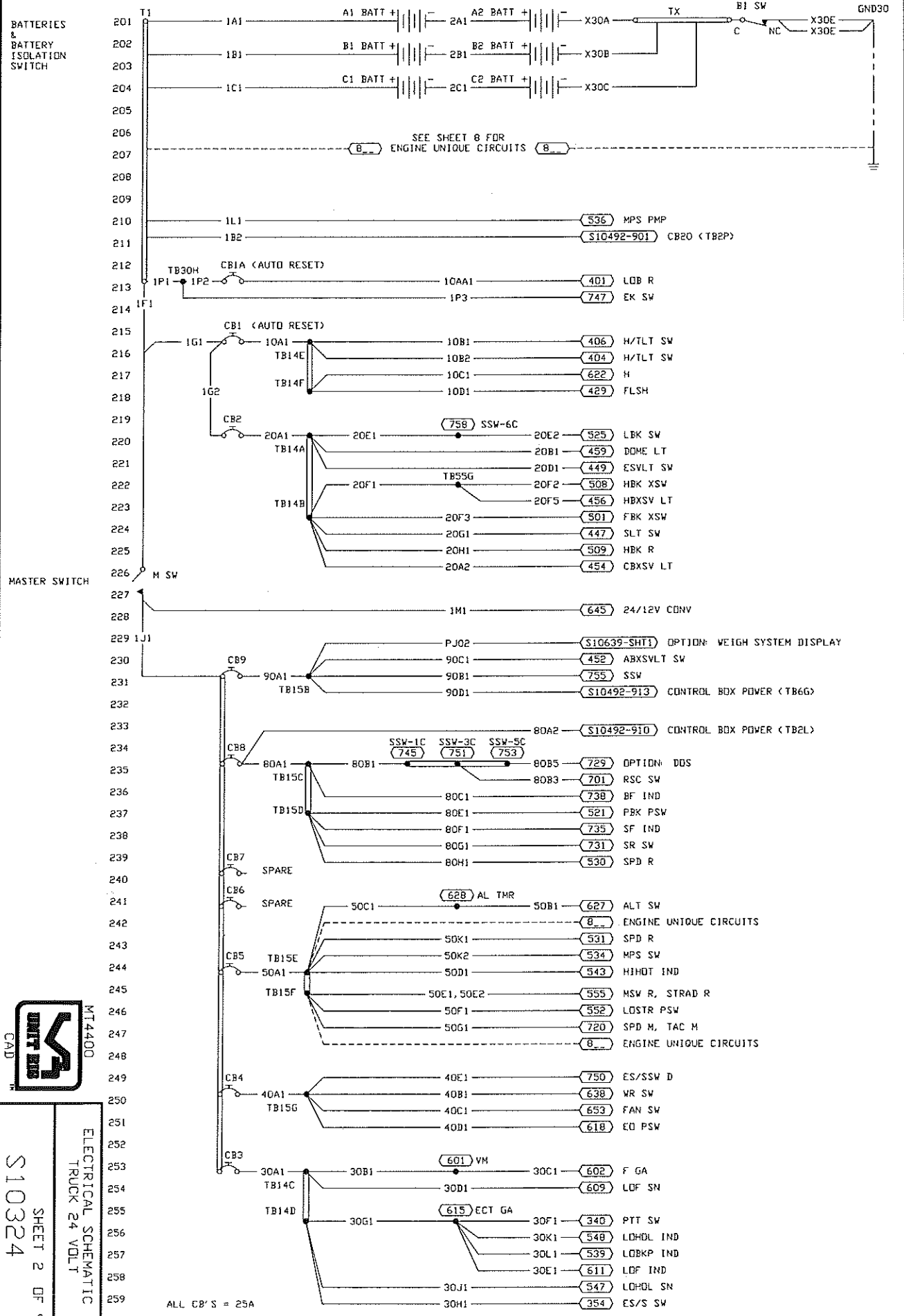
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ELECTRICAL SCHEMATIC
TRUCK 24 VOLT
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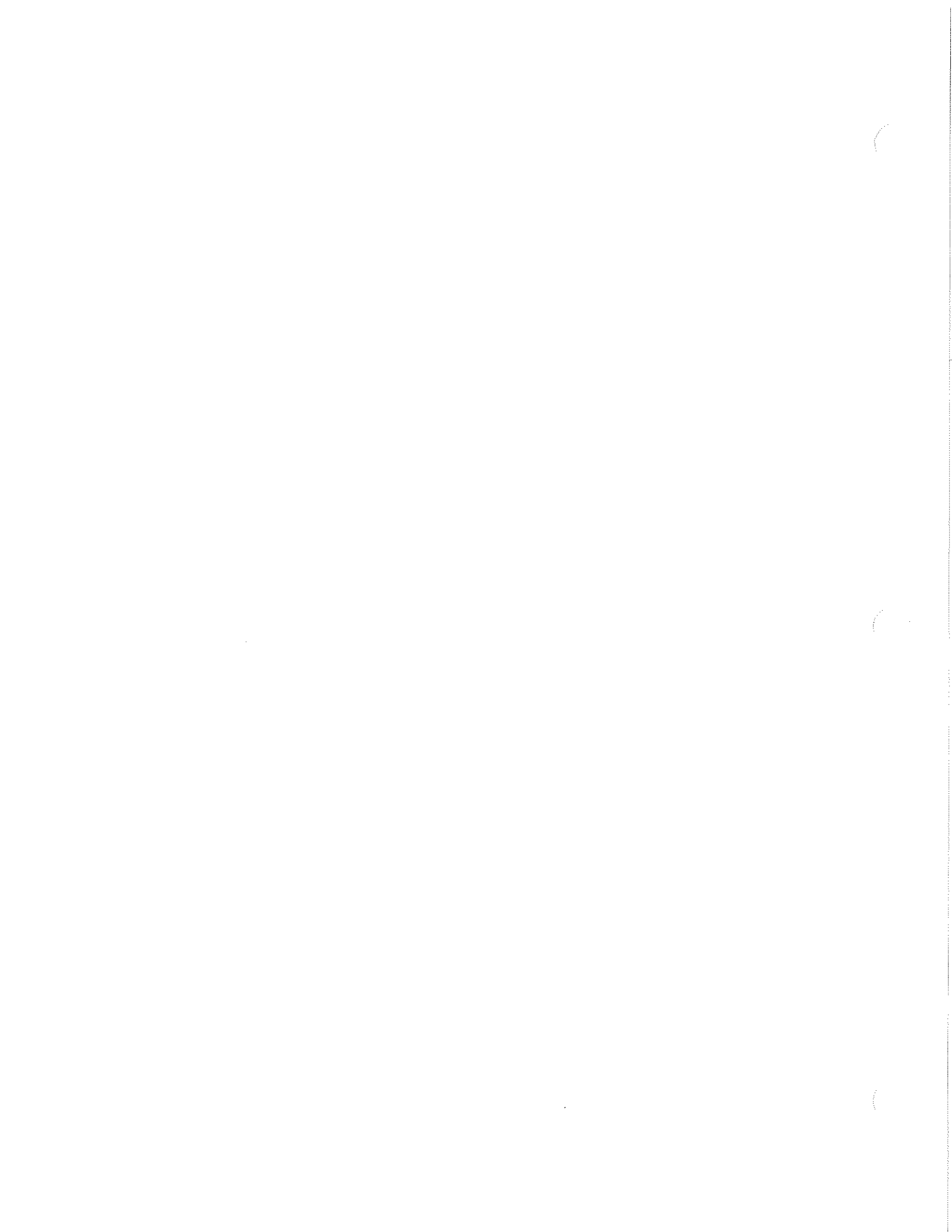
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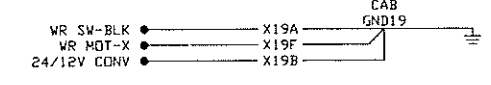
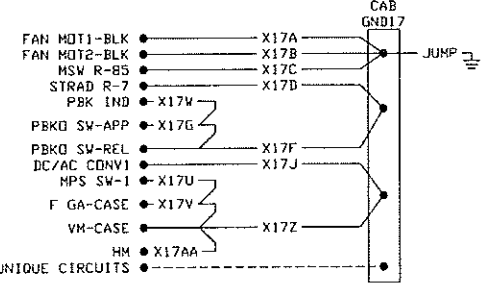
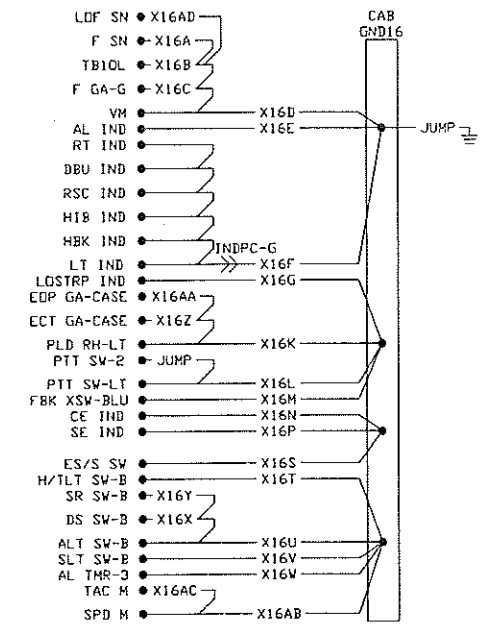
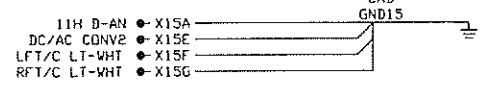
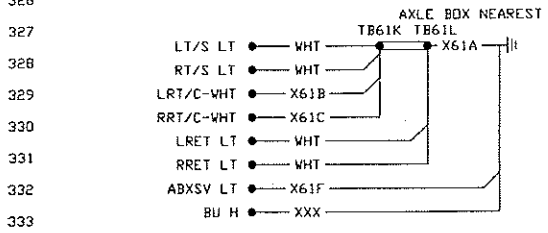
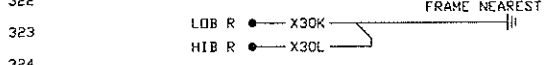
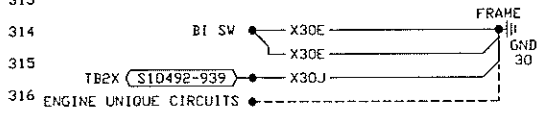
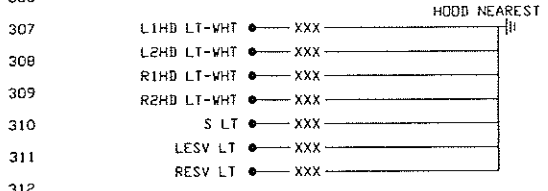
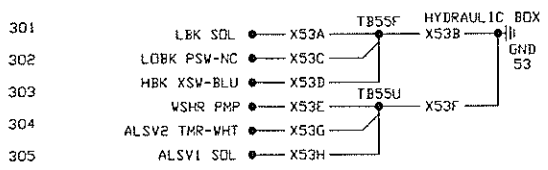
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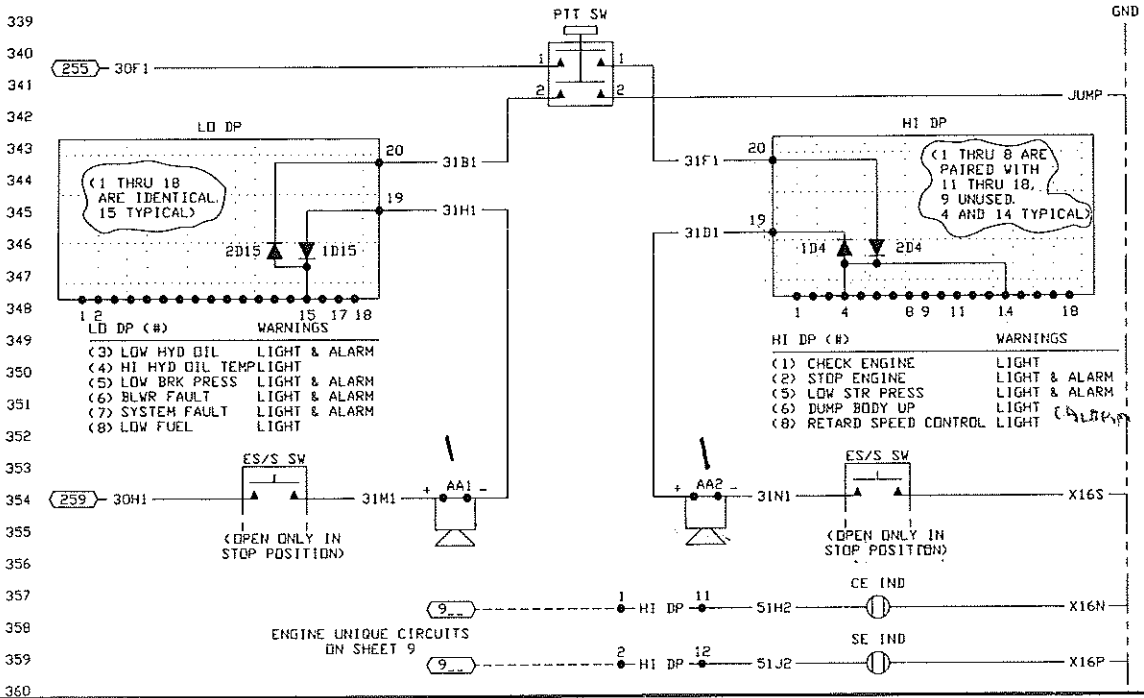
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PRESS TO TEST SWITCH



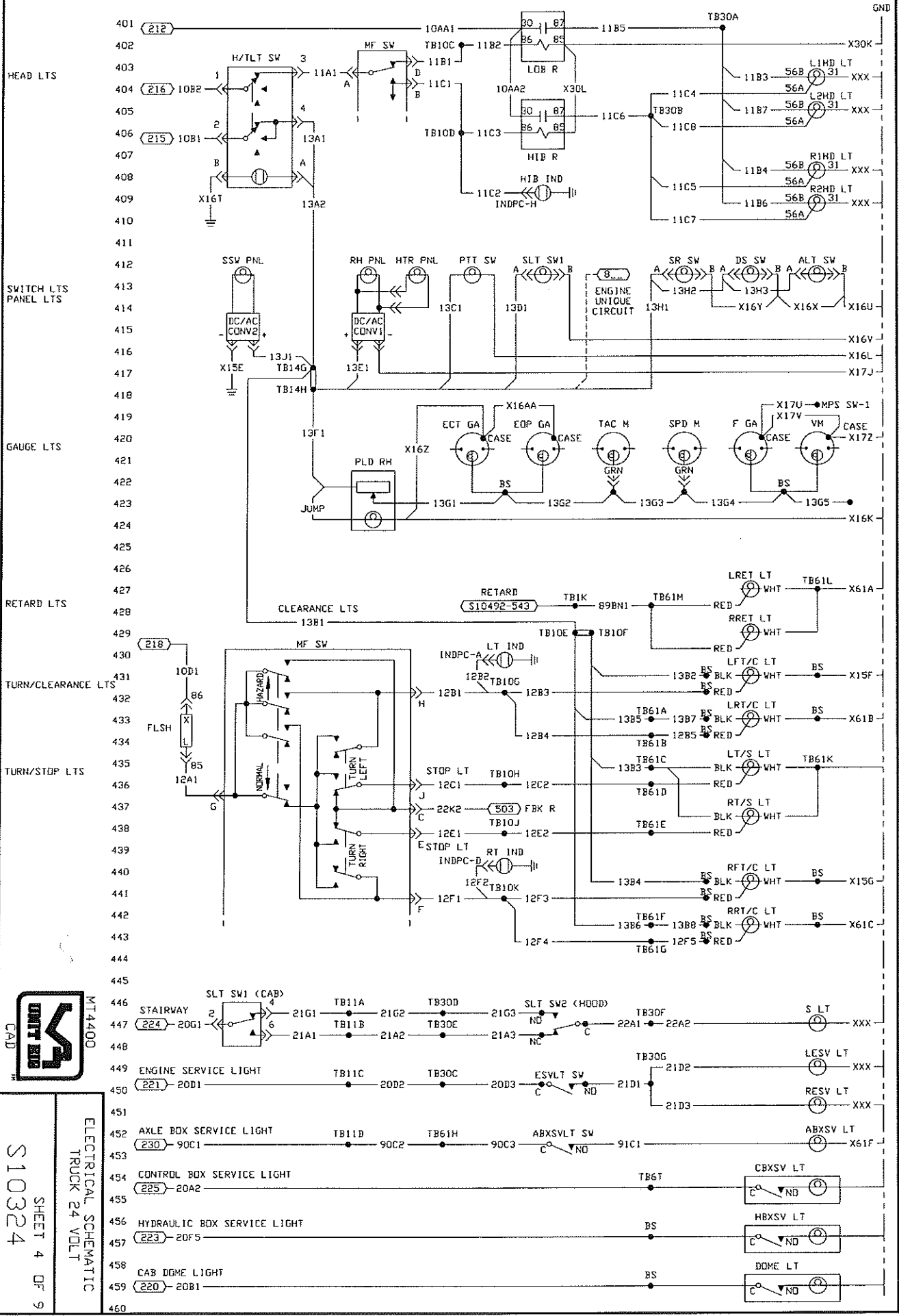
S10324 SHEET 3 OF 9
ELECTRICAL SCHEMATIC
TRUCK 24 VOLT



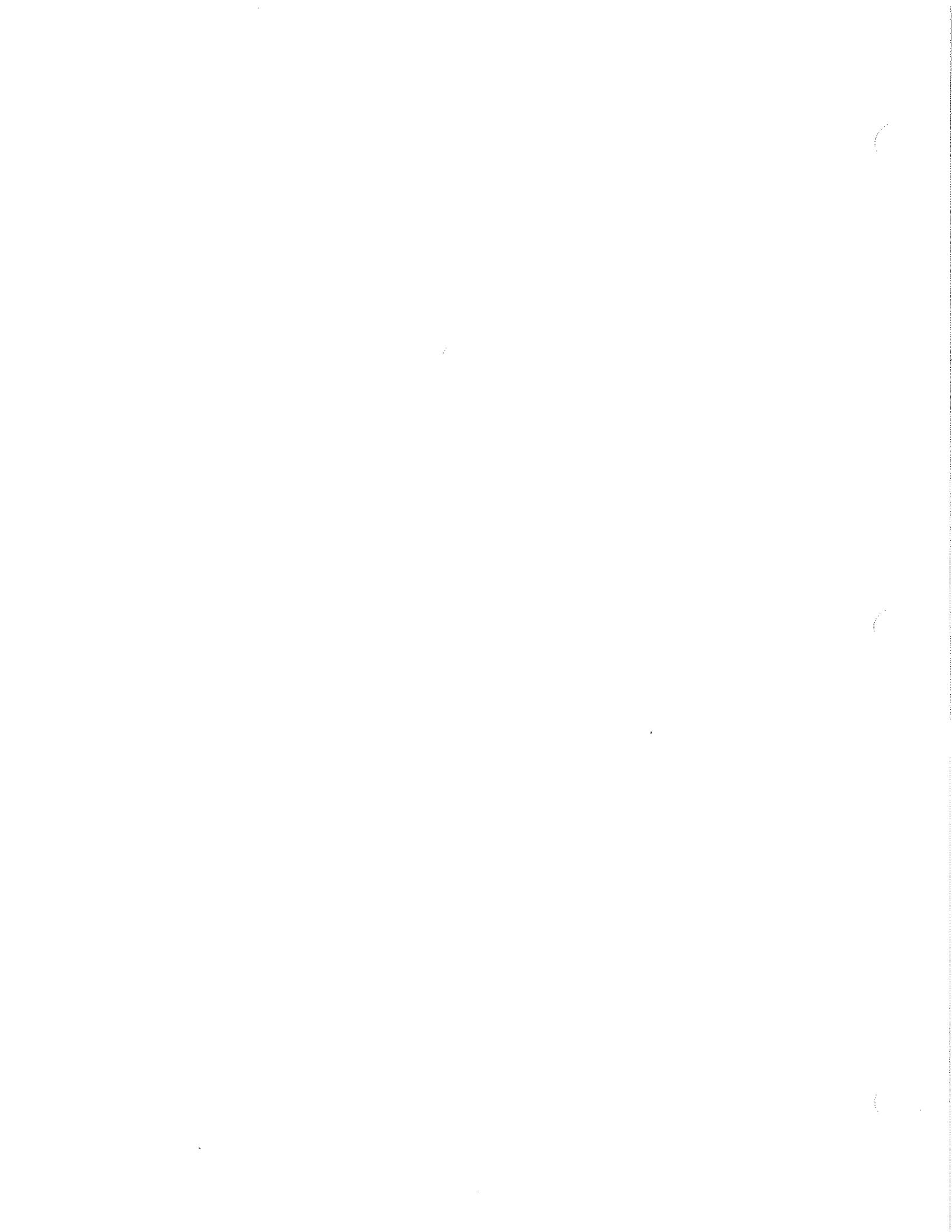
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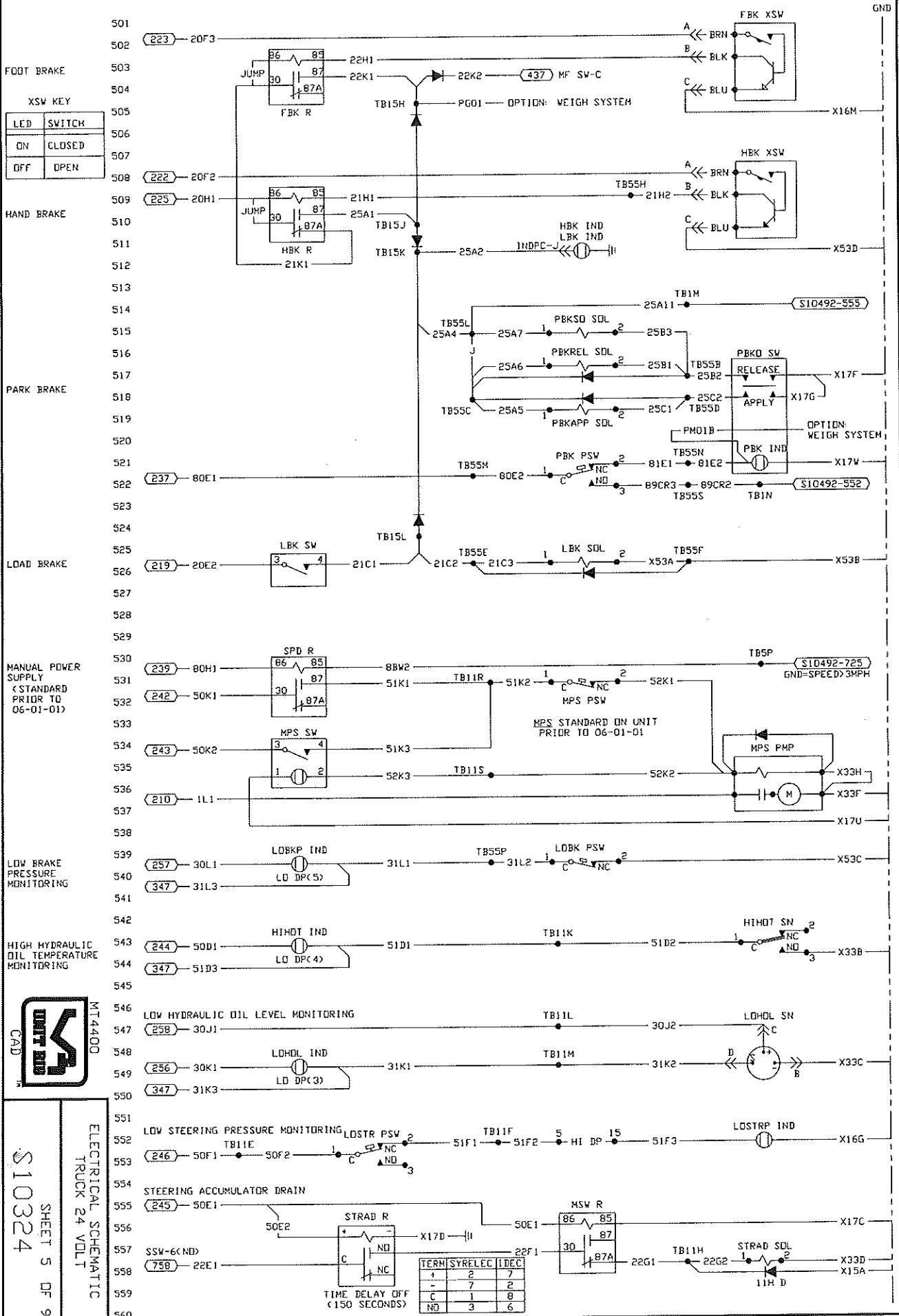


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FOOT BRAKE

XSW KEY

LED	SWITCH
ON	CLOSED
OFF	OPEN



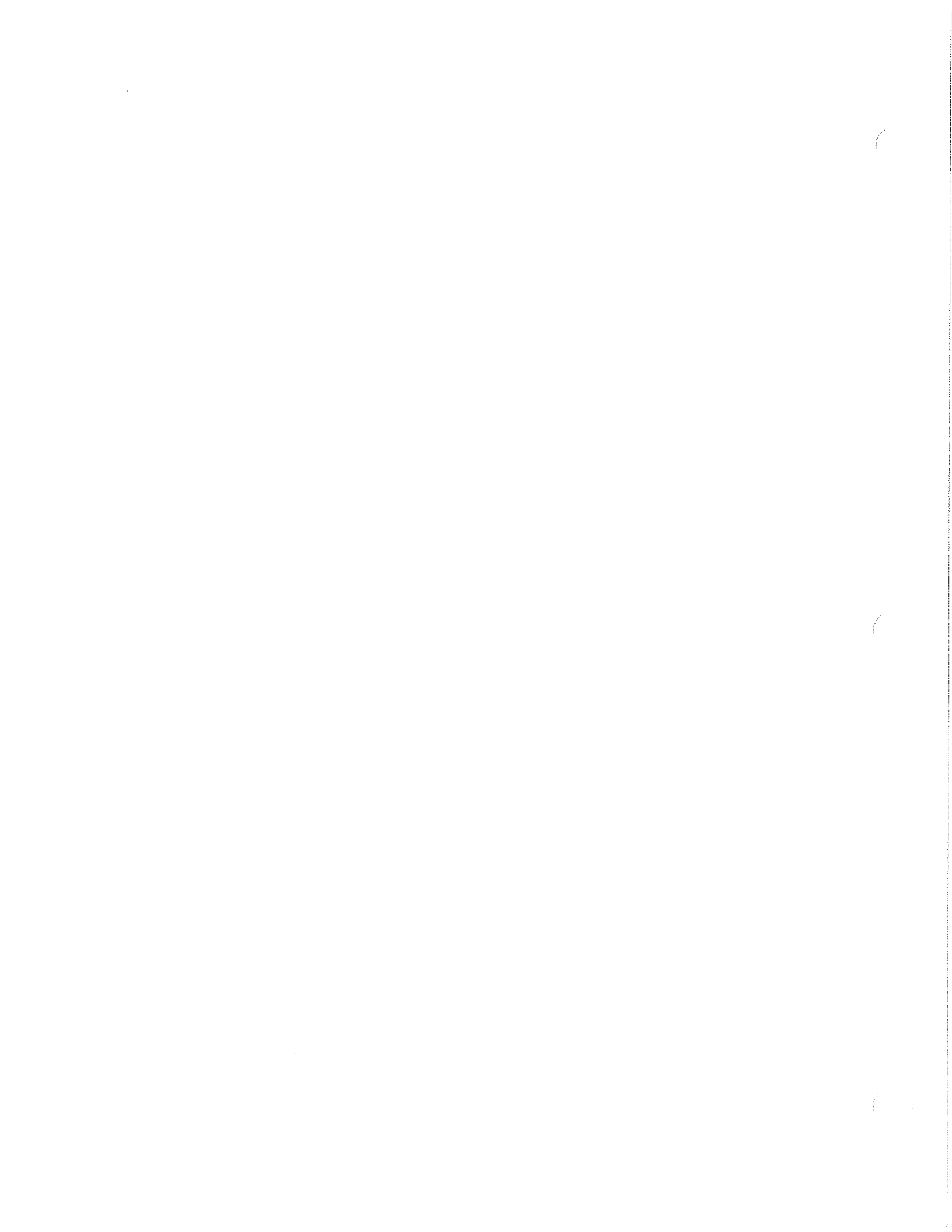
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ELECTRICAL SCHEMATIC
TRUCK 24 VOLT

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TERM	SY	RELEC	IDEC
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-	7	2	
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NO	3	6	

TIME DELAY OFF
(150 SECONDS)



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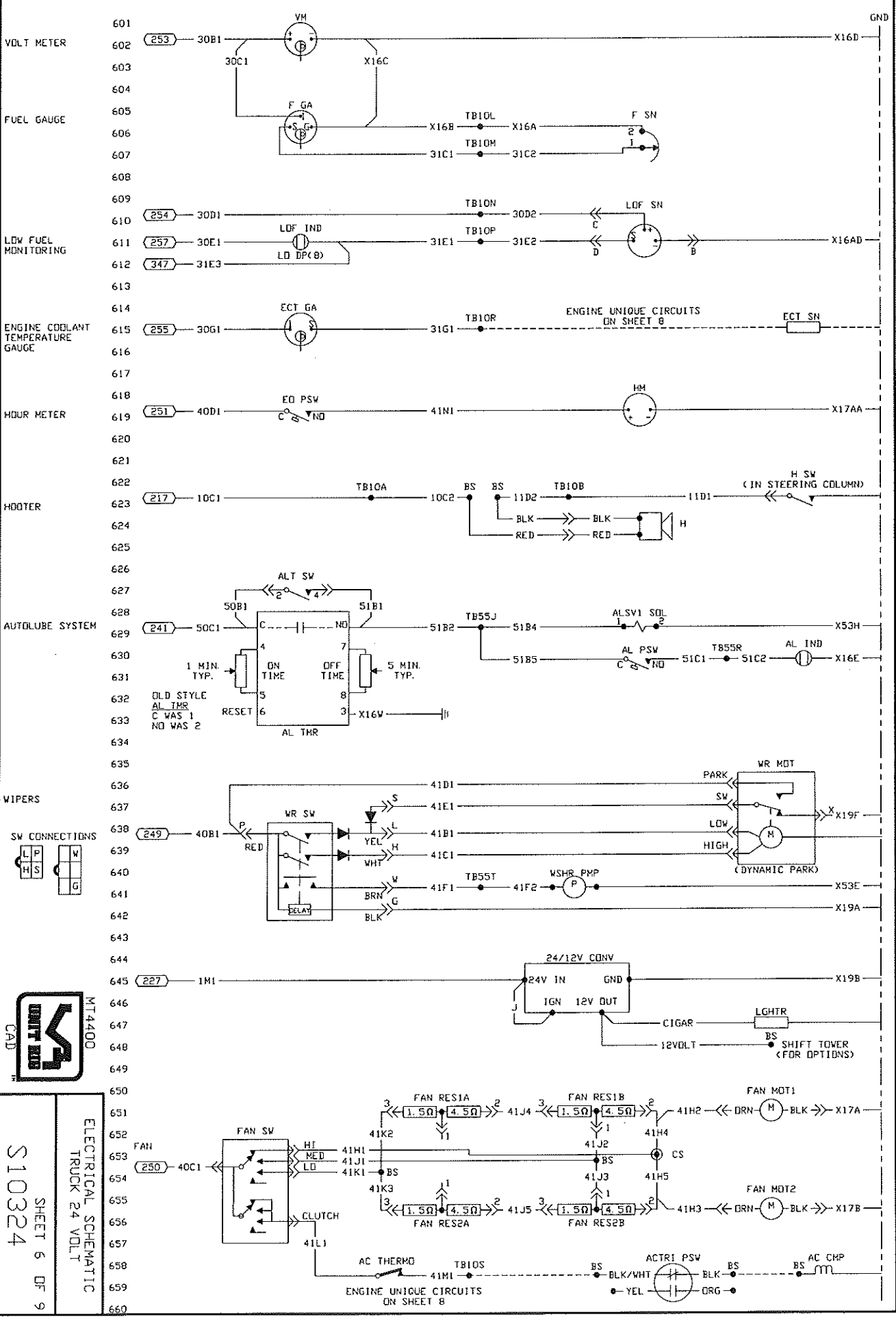
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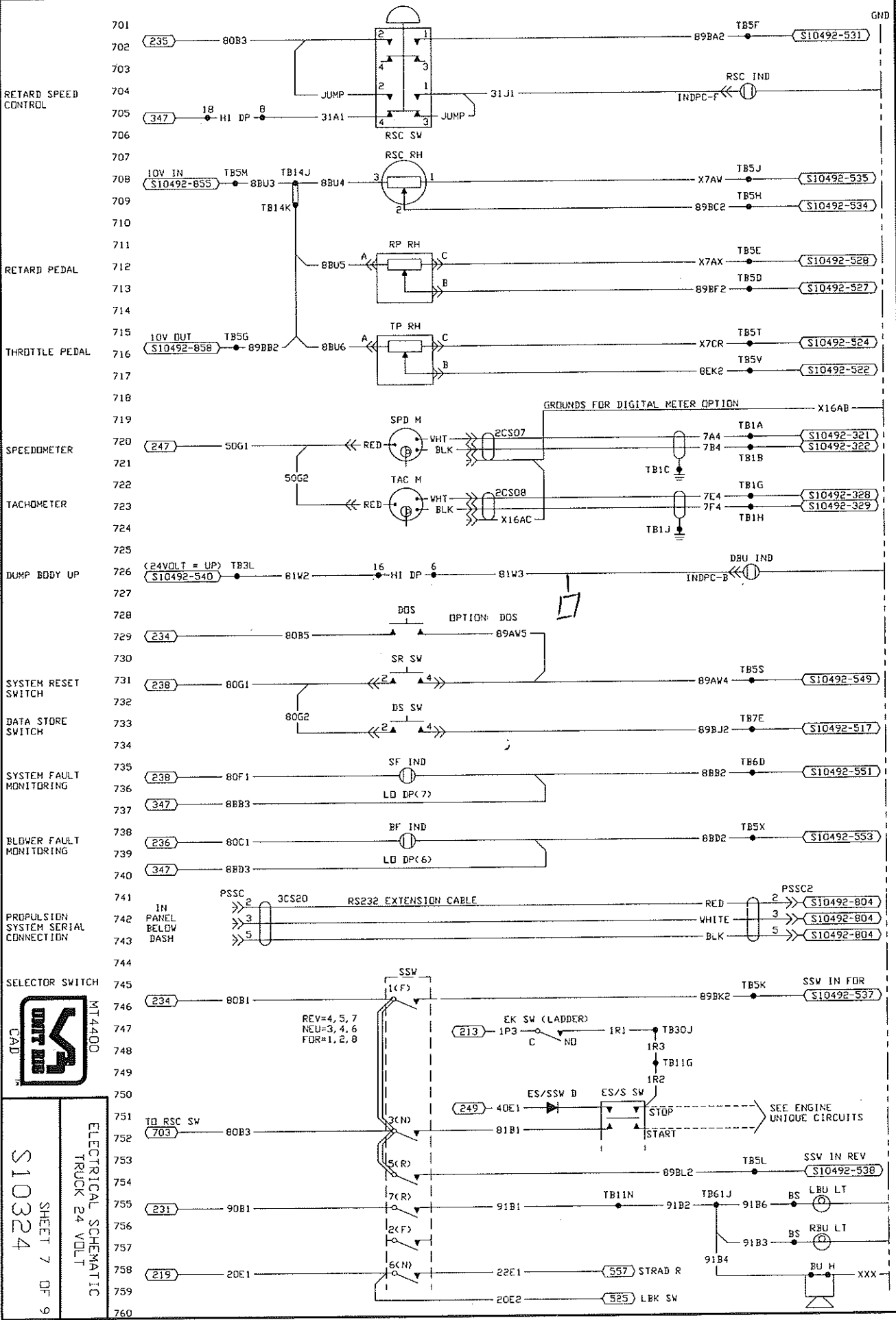
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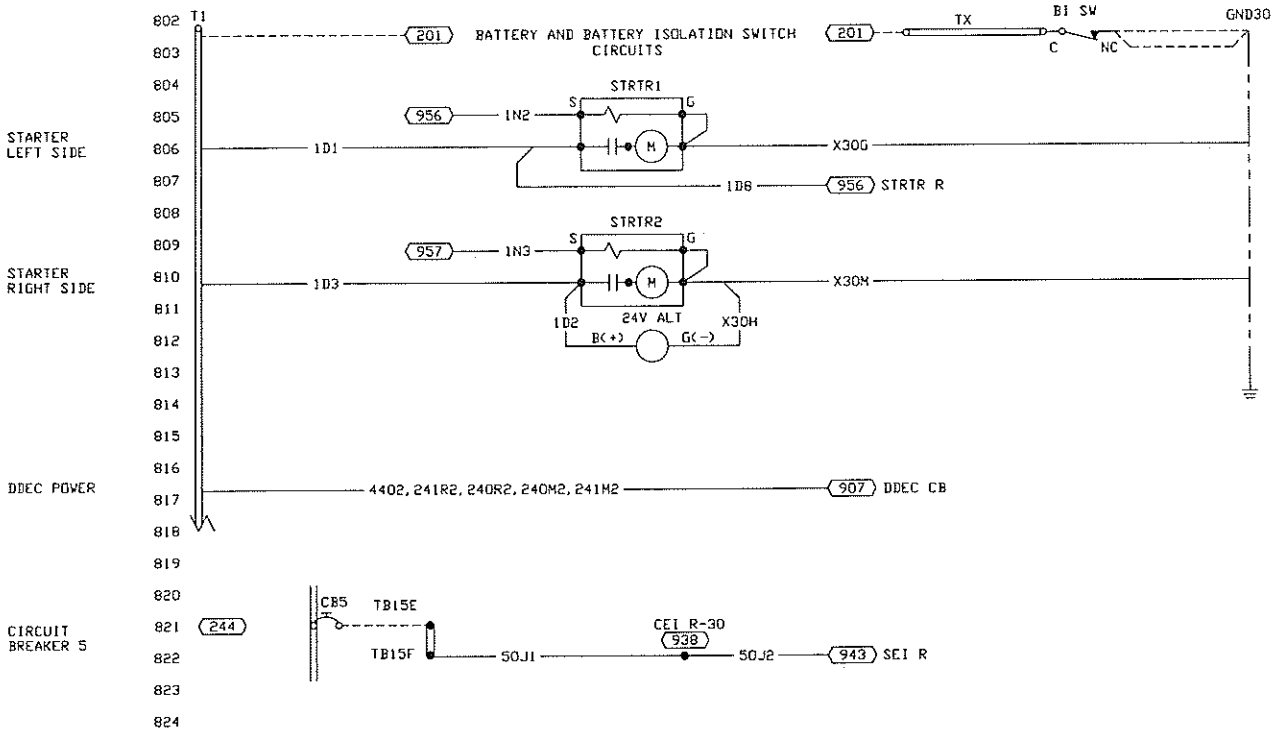
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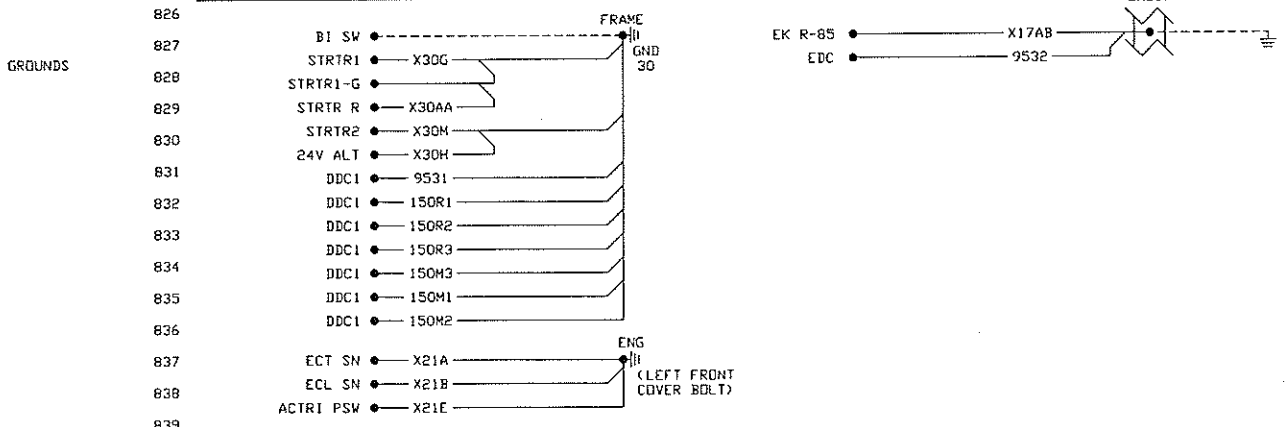
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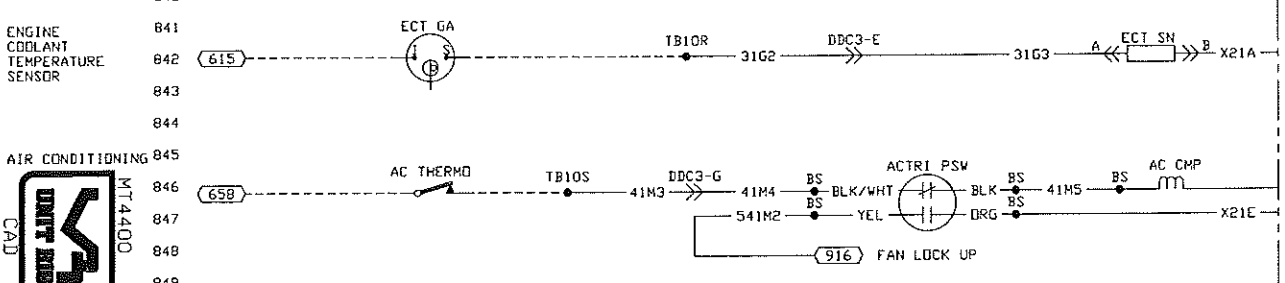
24V POWER DISTRIBUTION (SHEET 2 ADDITIONS)



GROUNDS (SHEET 3 ADDITIONS)

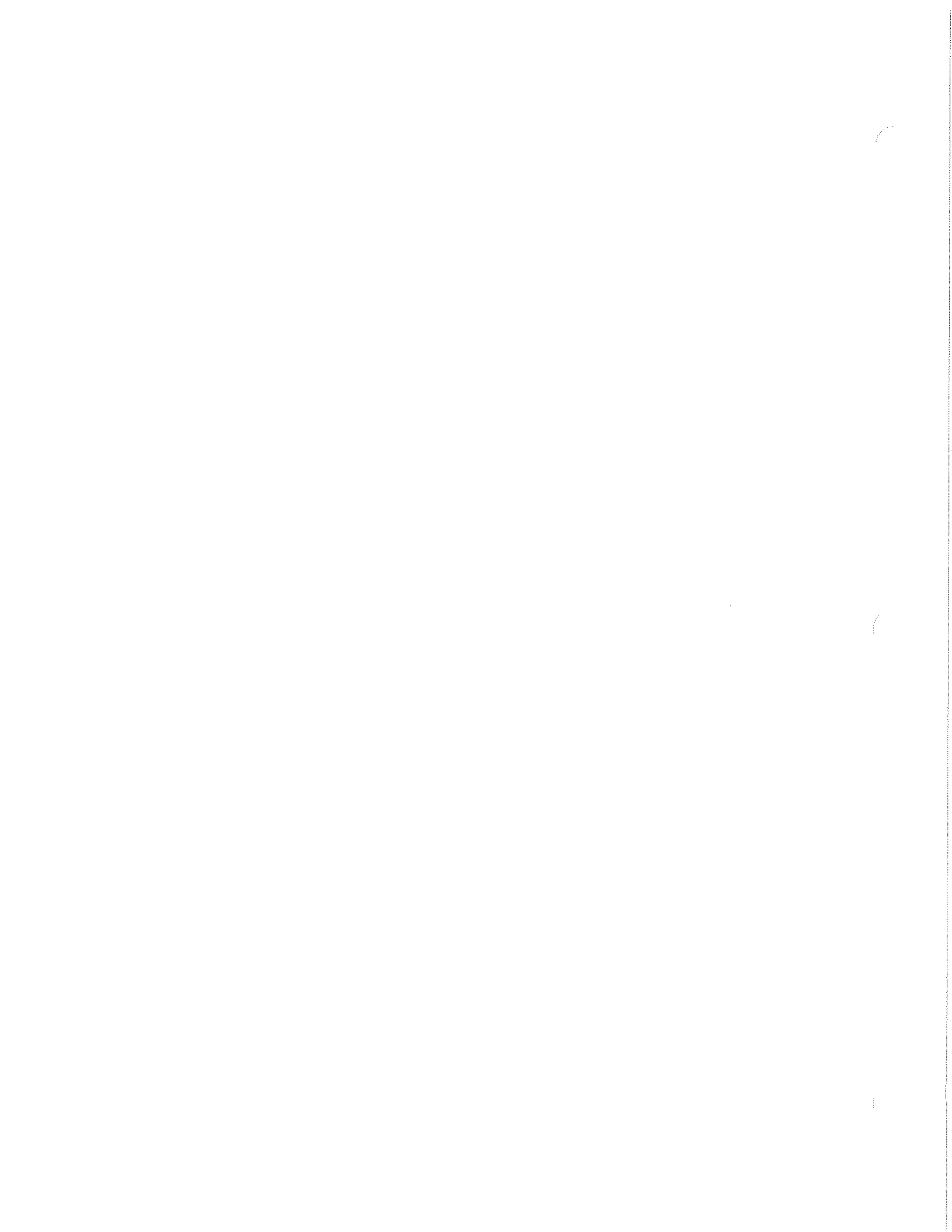


GAUGE (SHEET 6 ADDITIONS)

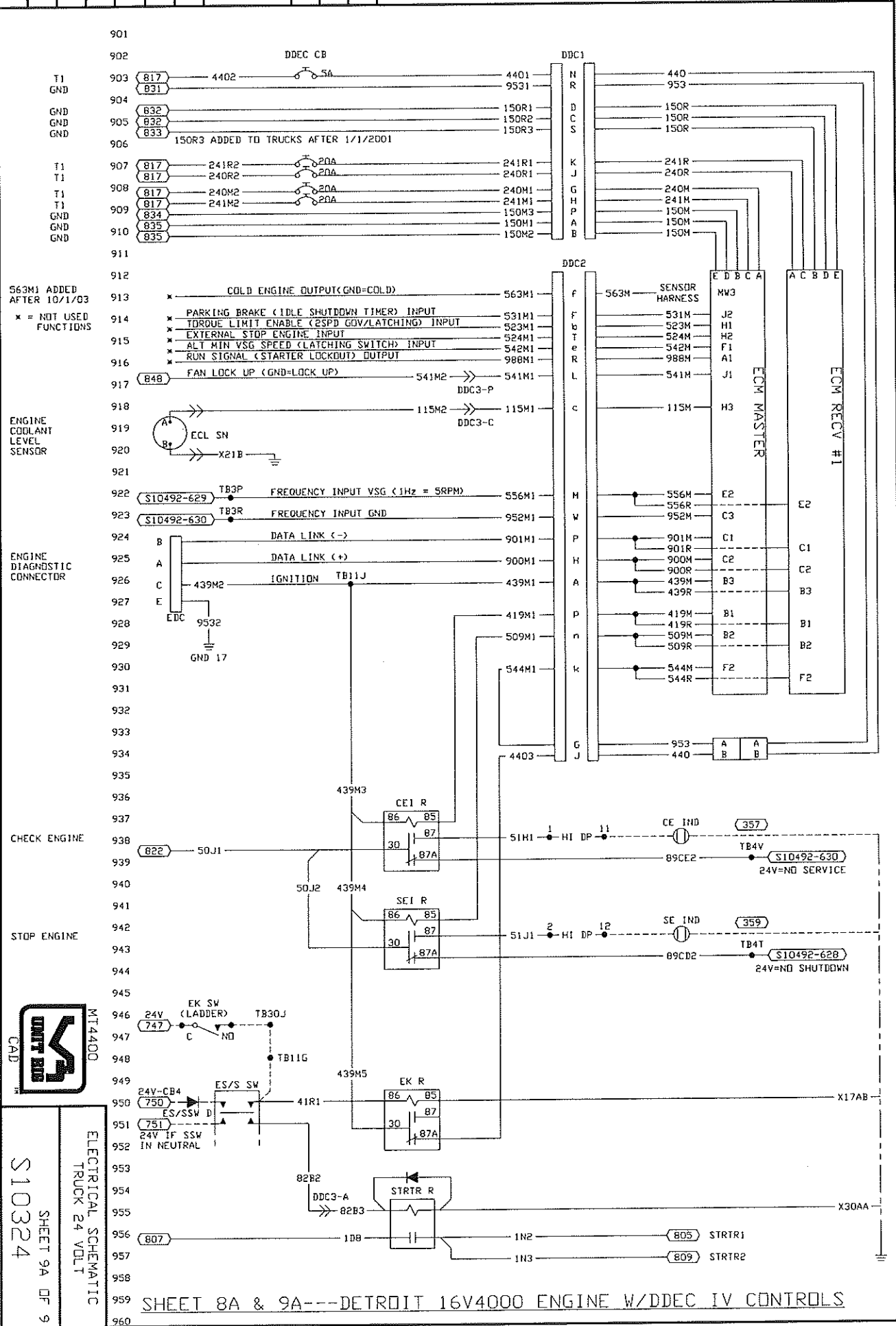


ELECTRICAL SCHEMATIC
TRUCK 24 VOLT

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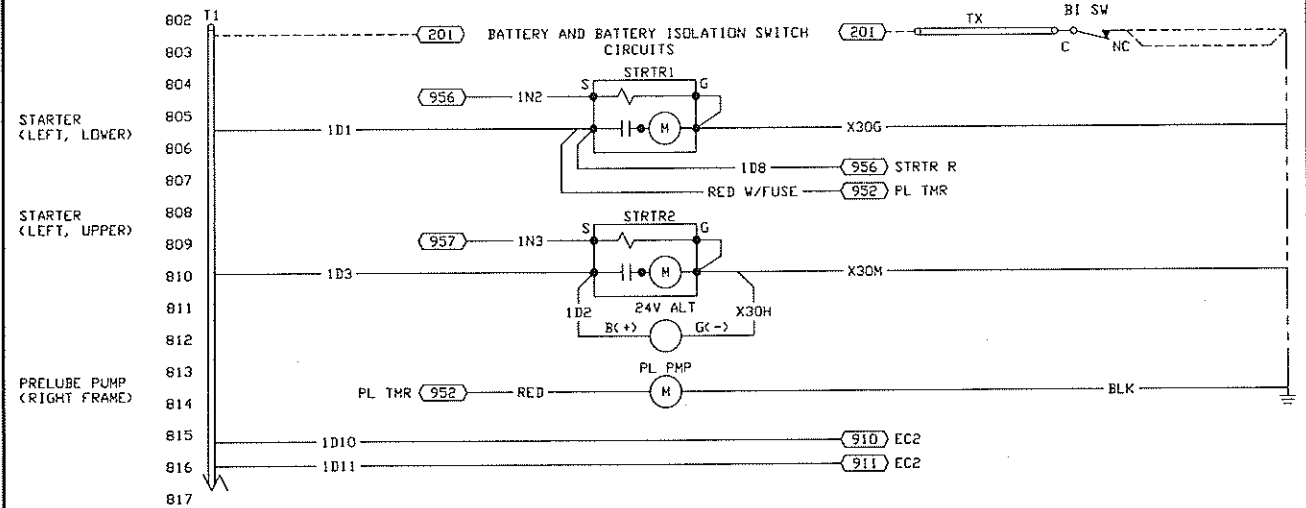
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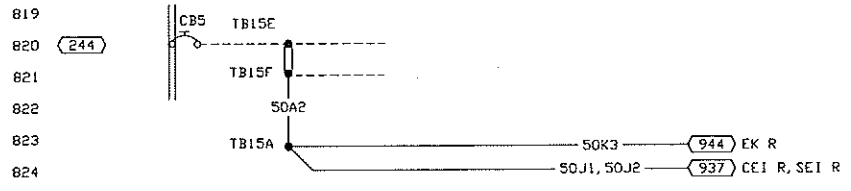


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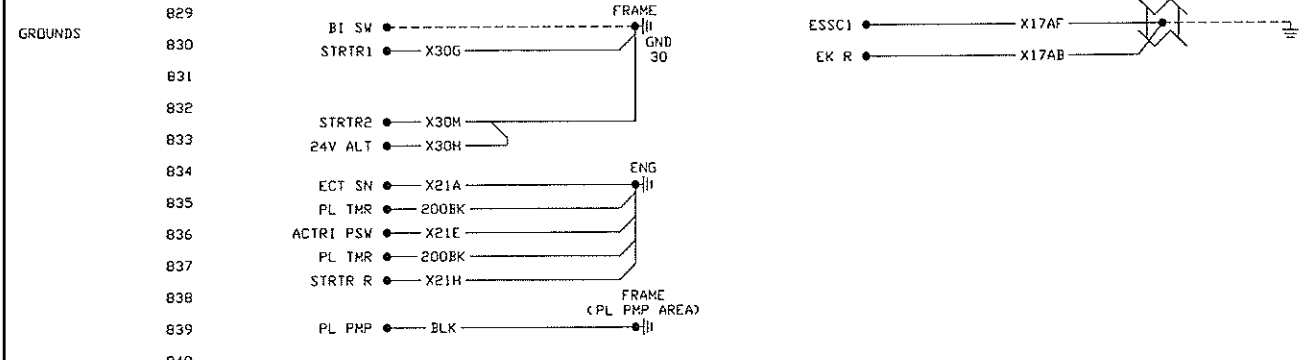
801 24V POWER DISTRIBUTION (SHEET 2 ADDITIONS)



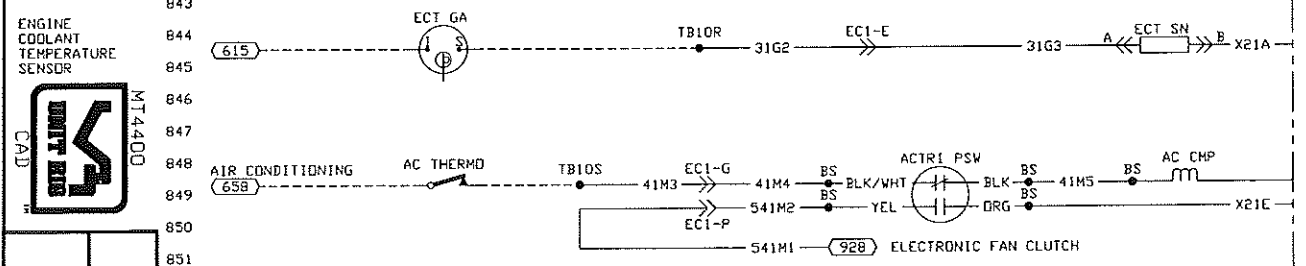
819 CIRCUIT BREAKER 5



828 GROUNDS (SHEET 3 ADDITIONS)



842 GAUGE (SHEET 6 ADDITIONS)



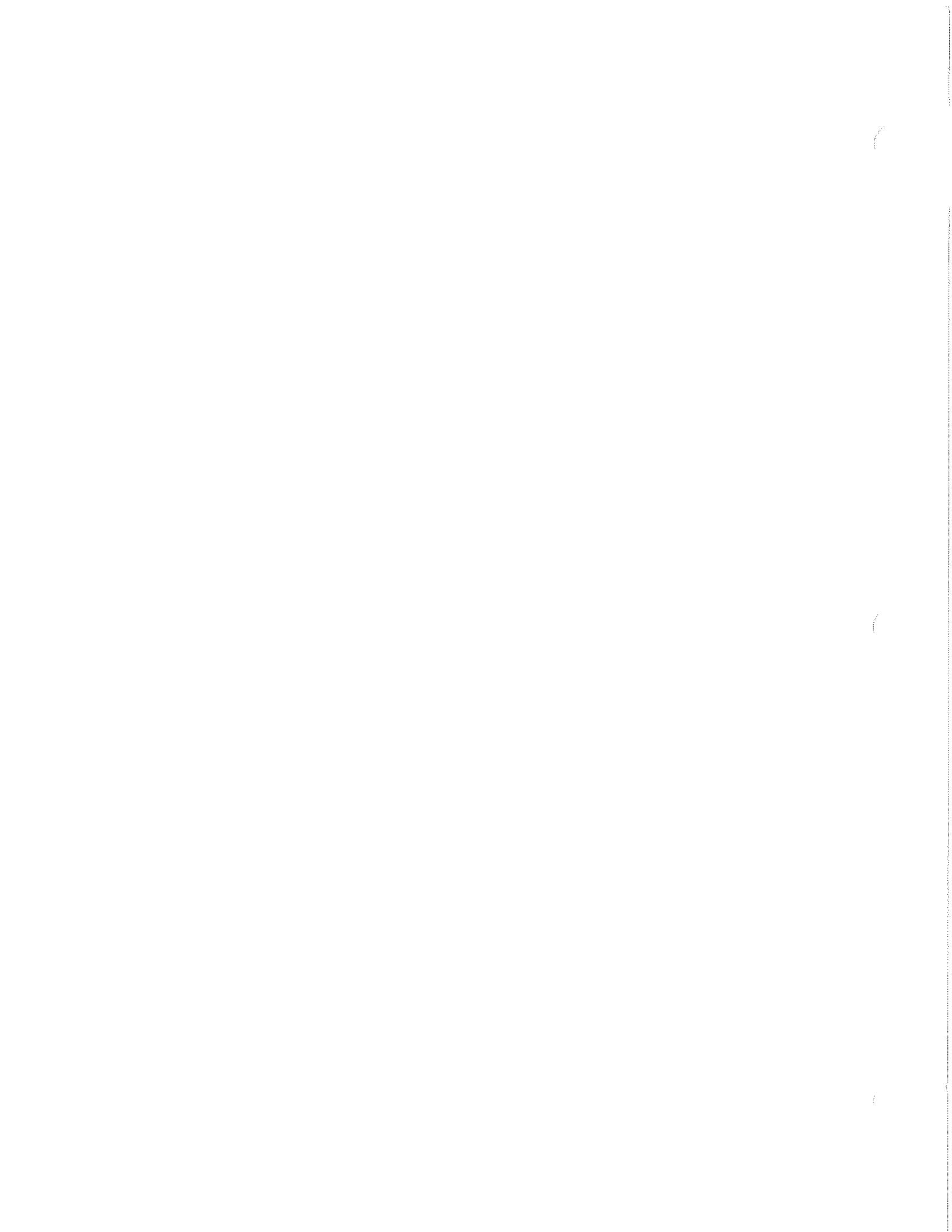
ENGINE COOLANT TEMPERATURE SENSOR



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ELECTRICAL SCHEMATIC TRUCK 24 VOLT

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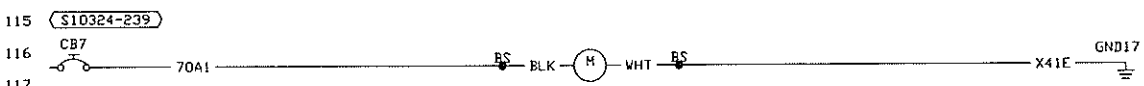
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CHK. BY MASSIE
APP. BY ELLIS

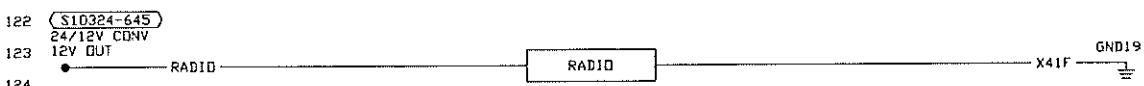
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S10324E

- 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
- 104 S10492 ELECTRICAL SCHEMATIC, POWER/CONTROL
- 105 REFER TO S10324 AND S10492 SHEET 1 FOR GENERAL INFORMATION AND NOTES.
- 106 SOME FUNCTIONAL INFORMATION HAS BEEN ADDED TO AID TROUBLESHOOTING AS FOLLOWS:
- 107 B+ 24V SUPPLY FROM BATTERY
- 108 B+(NS) 24V SUPPLY FROM BATTERY THAT IS CONTROLLED BY THE MASTER SWITCH.
- 109 (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.
- 110 (EXISTING) INDICATES A CONNECTION TO THE STANDARD CIRCUIT SHOWN ON S10324 OR S10492.
- 111 ----- INDICATES A CONNECTION TO THE STANDARD CIRCUIT SHOWN ON S10324 OR S10492.
- 112 24V= INDICATES THAT 24V EXISTS WHEN THE CONDITION IS TRUE.
- 113 GND= INDICATES THAT A GROUND EXISTS WHEN THE CONDITION IS TRUE.
- 114



116 CAB CLEANING ASSY (84503B)



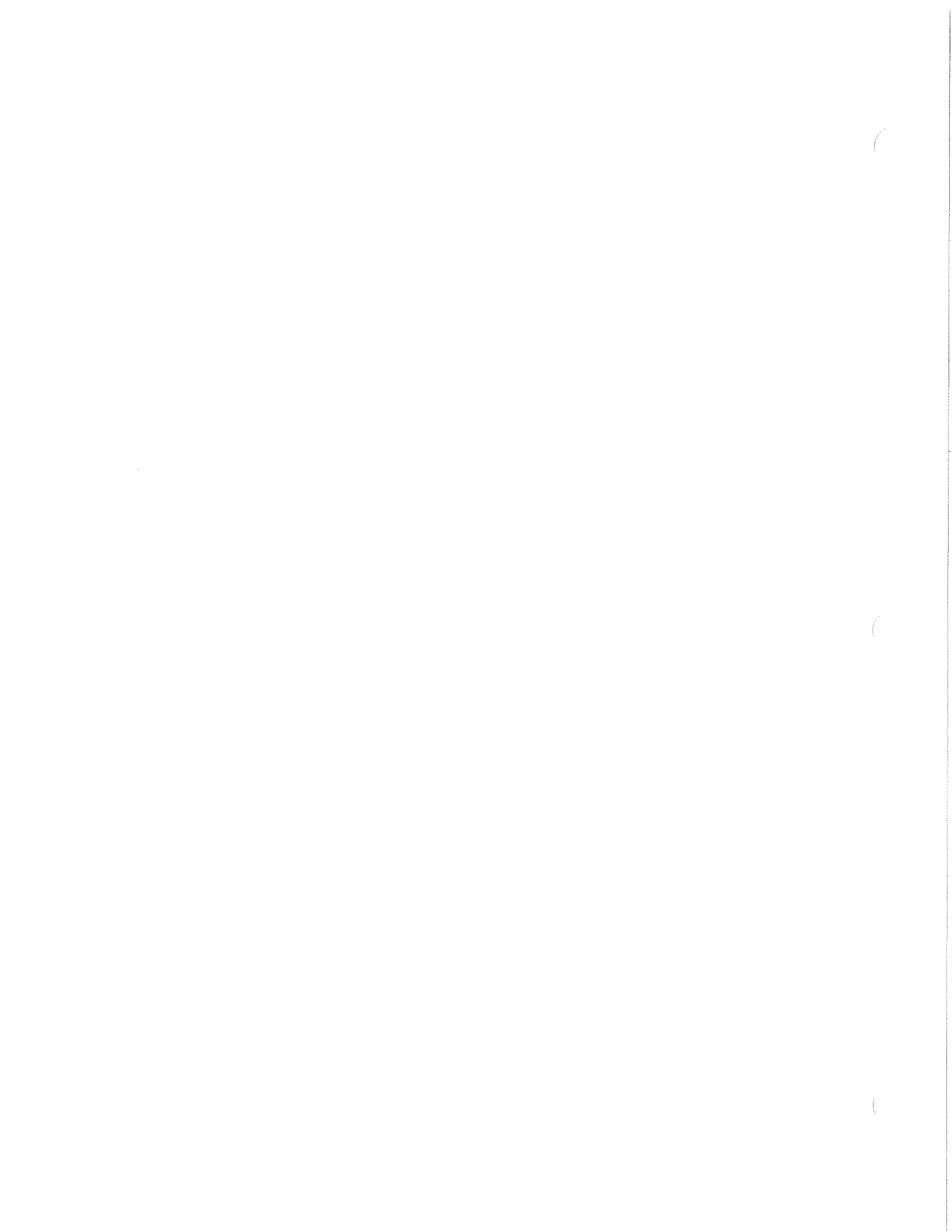
123 RADIO INSTALLATION (76032T)

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

MT4400 S/M11-137
BORAX



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



E.N. NO.

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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.

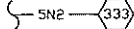
1. NUMBERS (IE 80A1 OR 81B1) ARE ASSIGNED TO EACH WIRE AND ARE SHOWN AS FOLLOWS.



2. MAIN POWER CIRCUITS ARE SHOWN BY HEAVY LINES. OPTIONAL CIRCUITS ARE SHOWN BY DASH LINES.

3. 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.

4. A CIRCUIT CONTINUATION IS SHOWN BY A ZONE NUMBER IN A HEXAGON.



5. 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.

6. ALL DEVICES ARE SHOWN IN THEIR NORMAL OR DE-ENERGIZED POSITION. THE REVERSER IS SHOWN IN THE FORWARD MOVEMENT POSITION.

MOTOR ARMATURE OR ALT

COMMUTATING FIELD

SERIES FIELD

SHUNT OR SEPERATE FIELD

TB1A TERMINAL CONNECTION

(WITH TERM DESIGNATION) BUTT SPLICE OR BOLT CONNECTION

BUSSED TERMINAL

CONNECTOR 5 PIN/SOCKET D

RESISTOR

ADJUSTED RESISTOR

RHEOSTAT OR VARIABLE RESISTOR

THYRISTE RESISTOR

BATTERY

SHUNT

ELECTRONIC GROUND

FRAME GROUND

RELAY COIL OR SOLENOID OR TEMP SENSOR

NORMALLY OPEN SWITCH OR RELAY CONTACT

NORMALLY CLOSED SWITCH OR RELAY CONTACT

MAIN CONTACTOR

SOLENOID CONTACTS

PUSH BUTTON SWITCH

NORMALLY CLOSED SWITCH

NORMALLY OPEN SWITCH

DOUBLE THROW SWITCH

3 POSITION TGGLE SWITCH

ROTARY SWITCH

PRESSURE SWITCH

MECH ACTUATED SWITCH

TEMPERATURE SWITCH

CIRCUIT BREAKER

SUPPRESSION NETWORK

DIODE

SILICONE CONTROLLED RECTIFIER DIODE

ZENER DIODE

TRANSFORMER

INDICATOR LIGHT

LIGHT

MAGNETIC PICKUP

METER WITH CIRCUIT SYMBOL INSIDE

CAPACITOR

SHIELDED CABLE

EQUIPMENT LIST

Table with columns: ITEM, DESCRIPTION, LOCATION. Lists various components like GEN FIELD CONTACTOR, ISOLATION AMPLIFIER, MOTOR, RESISTORS, etc.

EQUIPMENT LIST

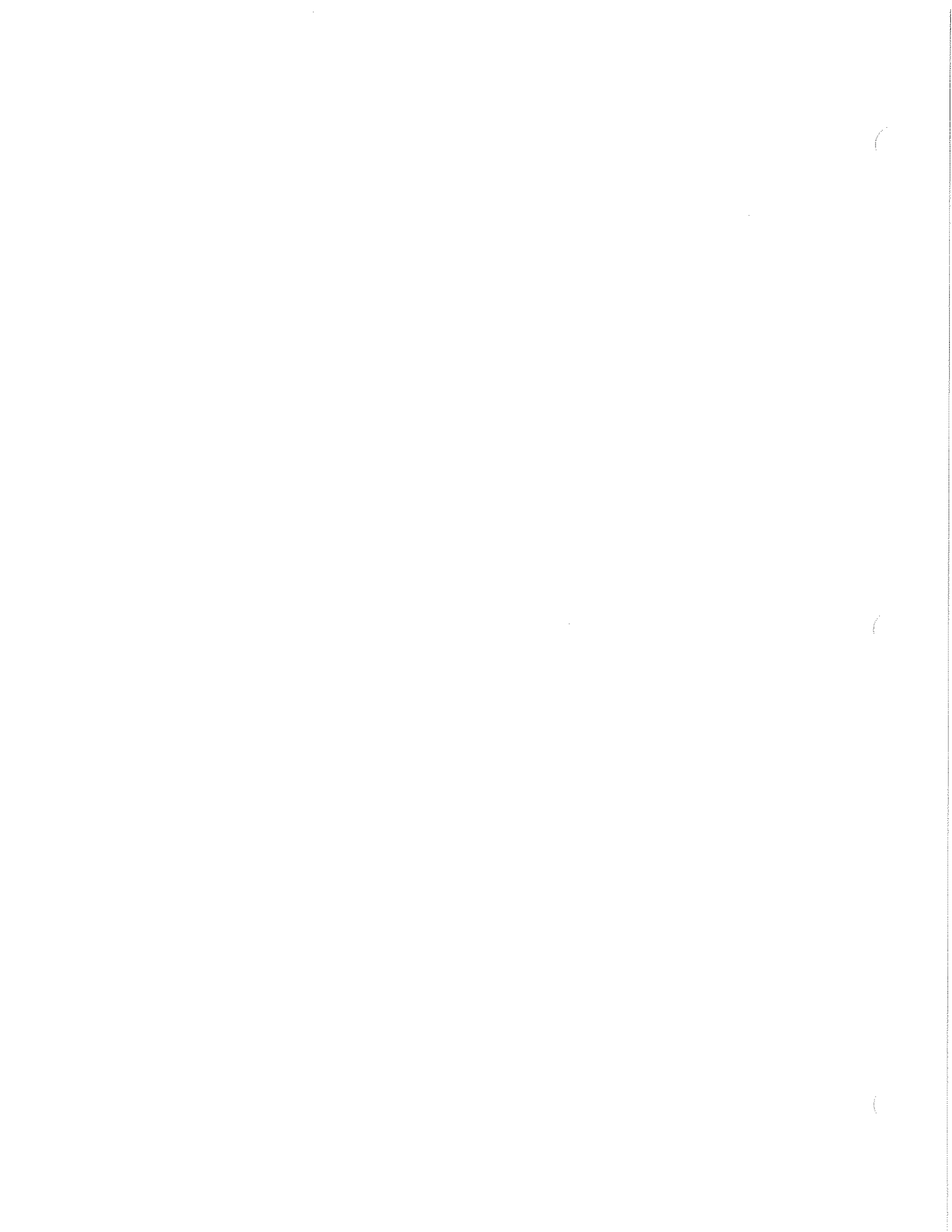
Table with columns: ITEM, DESCRIPTION, LOCATION. Lists components like 2 DIGIT DISPLAY, A.C. FILTER, ALTERNATOR, etc.



ELECTRICAL SCHEMATIC POWER / CONTROL SHEET 1 OF 10 S10492

INDEX 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 (20 GRIDS, 7 STEP ERR) 2D POWER CIRCUIT & GND FAULT (20 GRIDS, 7 STEP ERR) 2E POWER CIRCUIT & GND FAULT (14 GRIDS, 3 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

STANEX 111 FUEL ENHANCED LOAD BOX, ELECTRIC P1 & REV 12, 14, 16, OR 20 GRIDS

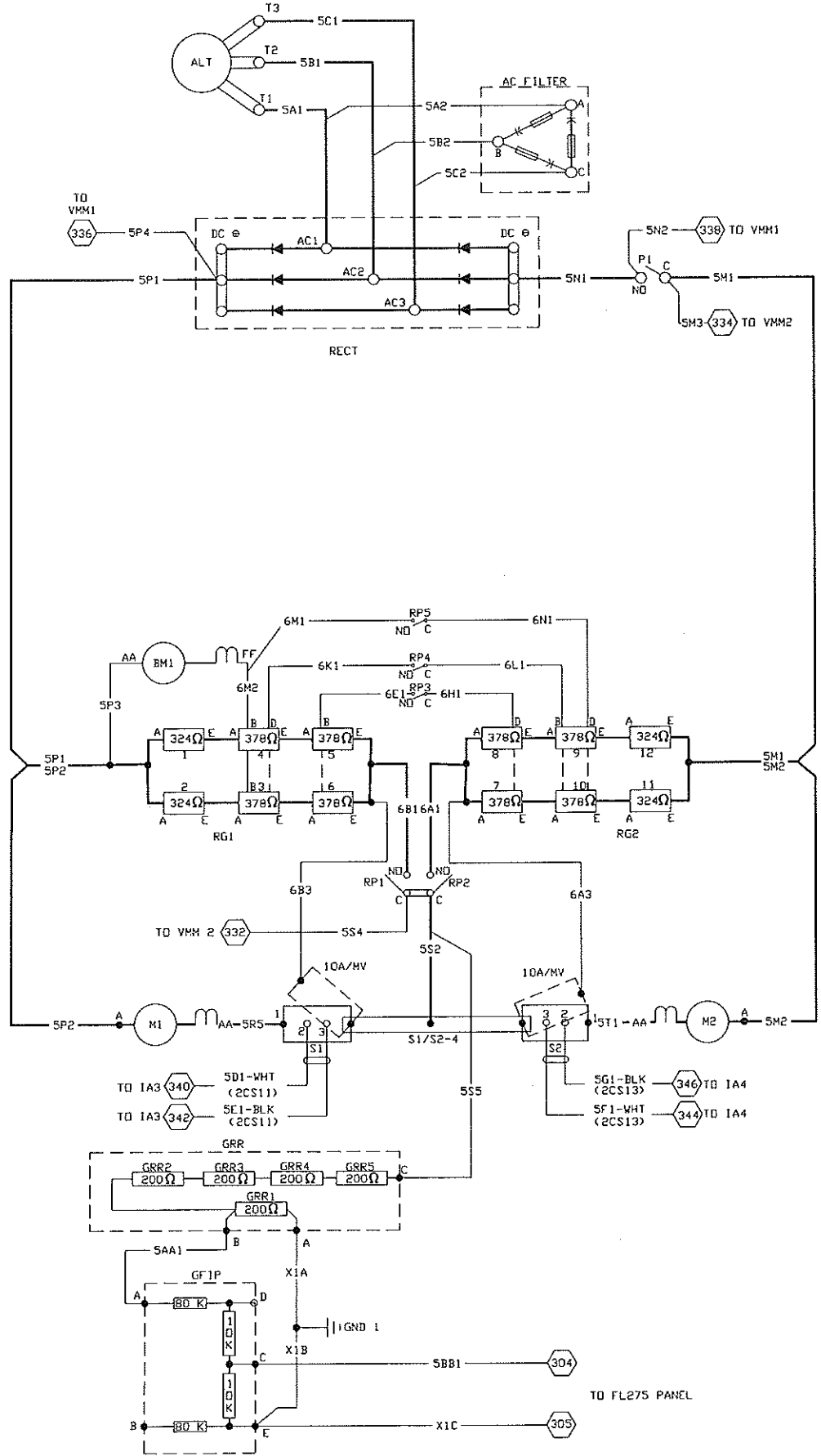


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12 GRIDS, 3 STEP ERR
 SWING-SHUNT
 LOAD BOX



ELECTRICAL SCHEMATIC
 POWER / CONTROL
 SHEET 2A OF 10
 S10492



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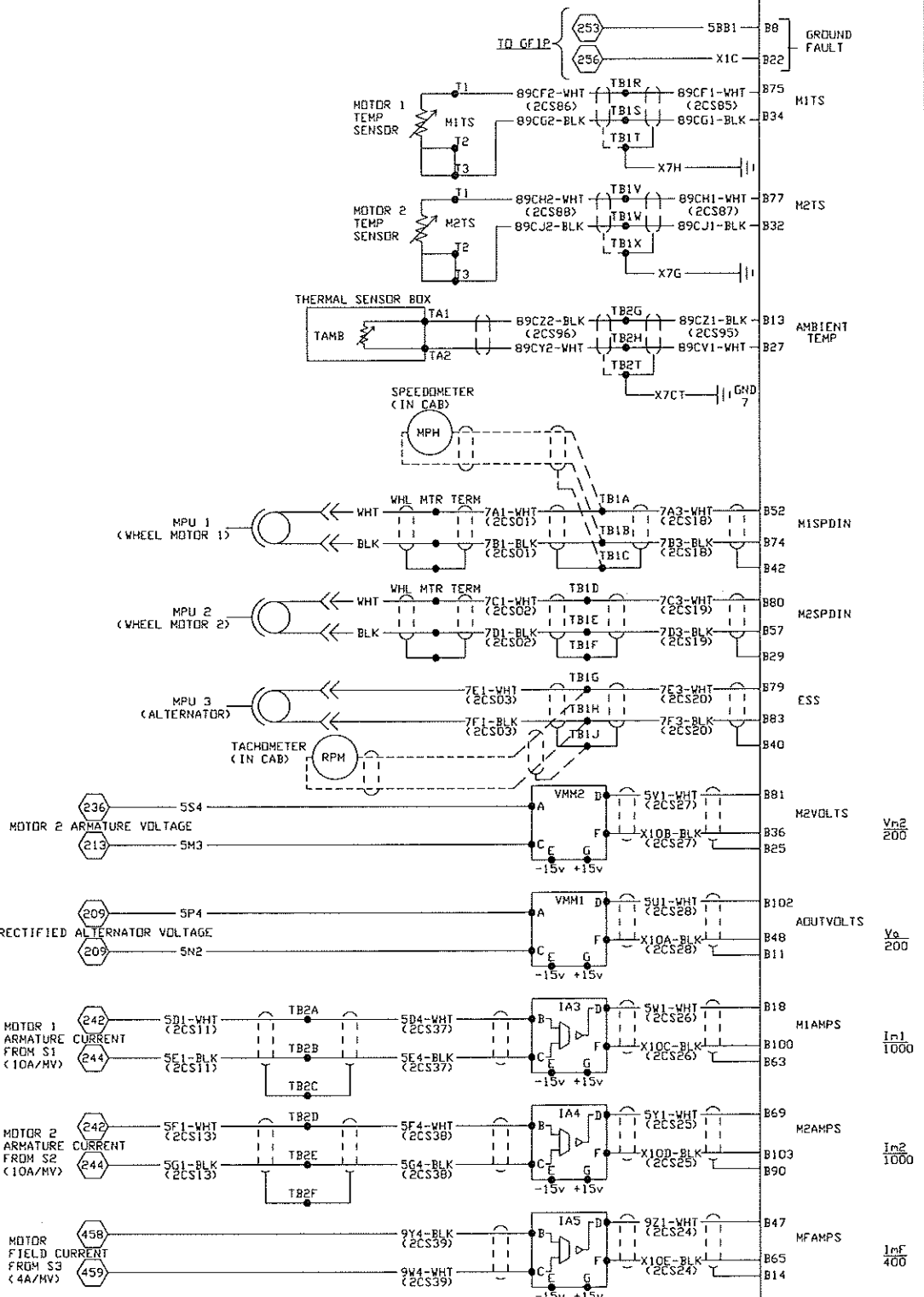
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S10492

FL275

FL275-INPUTS

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SHEET 3 OF 10
S10492

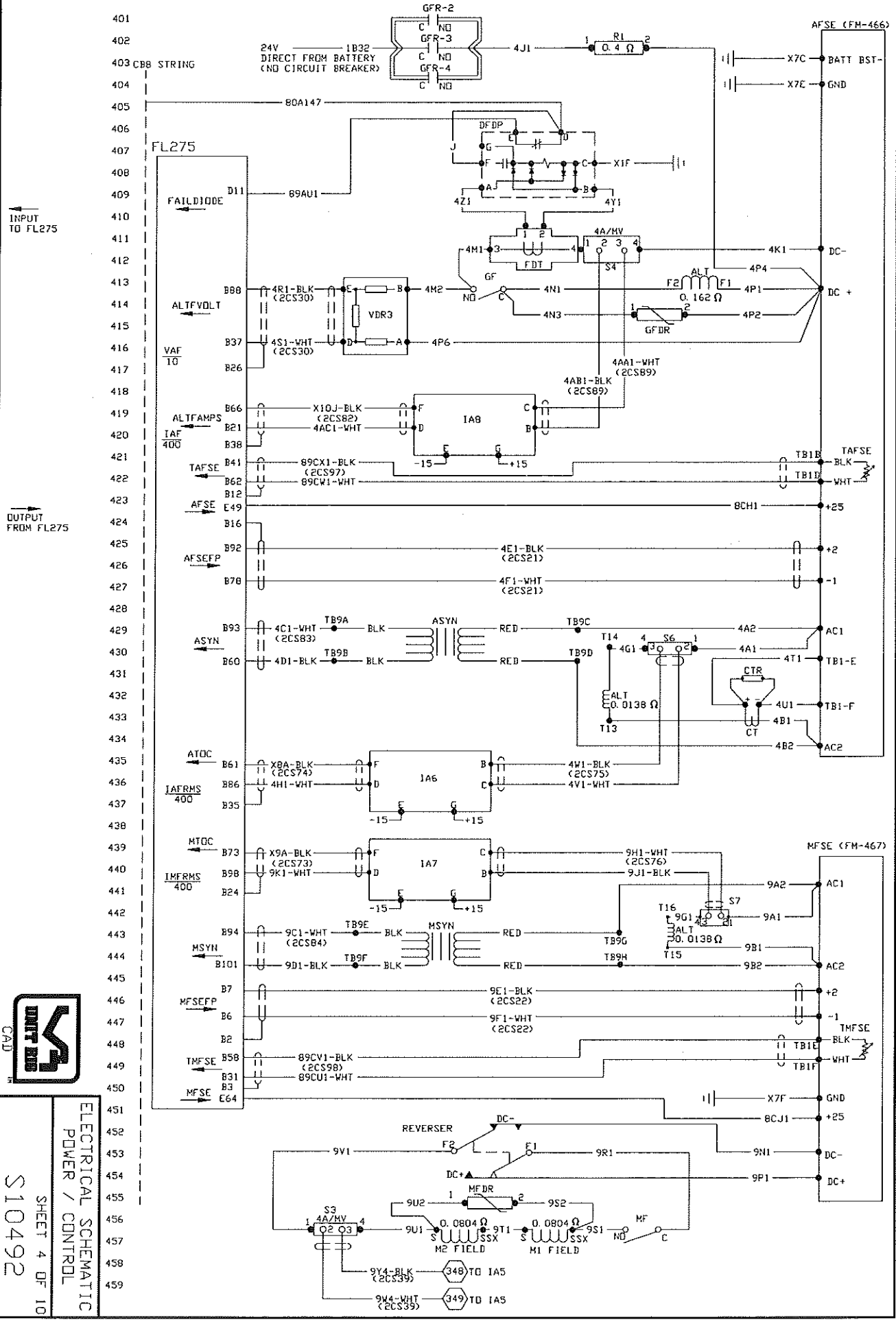
ELECTRICAL SCHEMATIC
POWER / CONTROL



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ELECTRICAL SCHEMATIC
POWER / CONTROL
SHEET 4 OF 10
S10492





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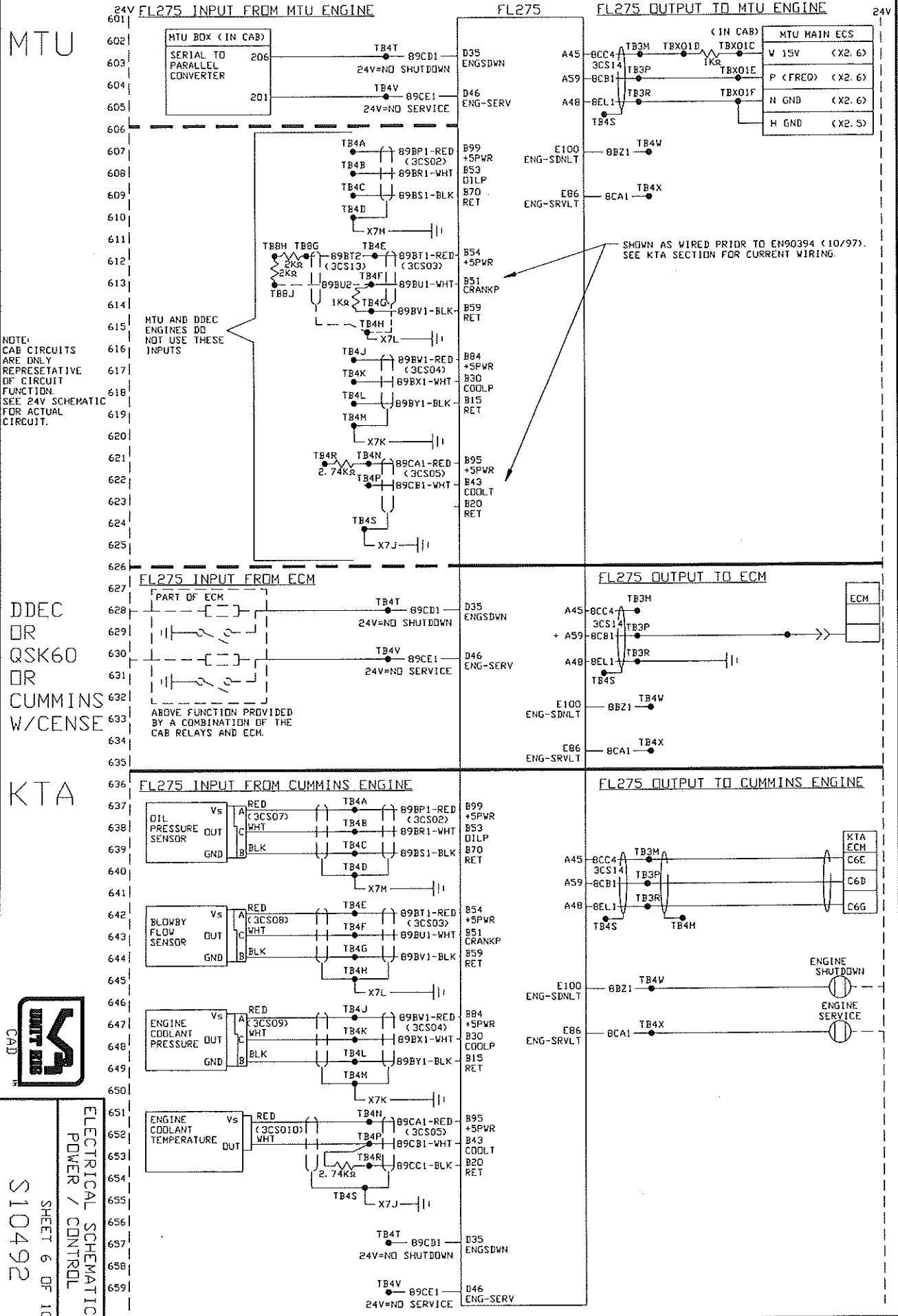
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UNIT RIG



ELECTRICAL SCHEMATIC
POWER / CONTROL
SHEET 6 OF 10
S10492

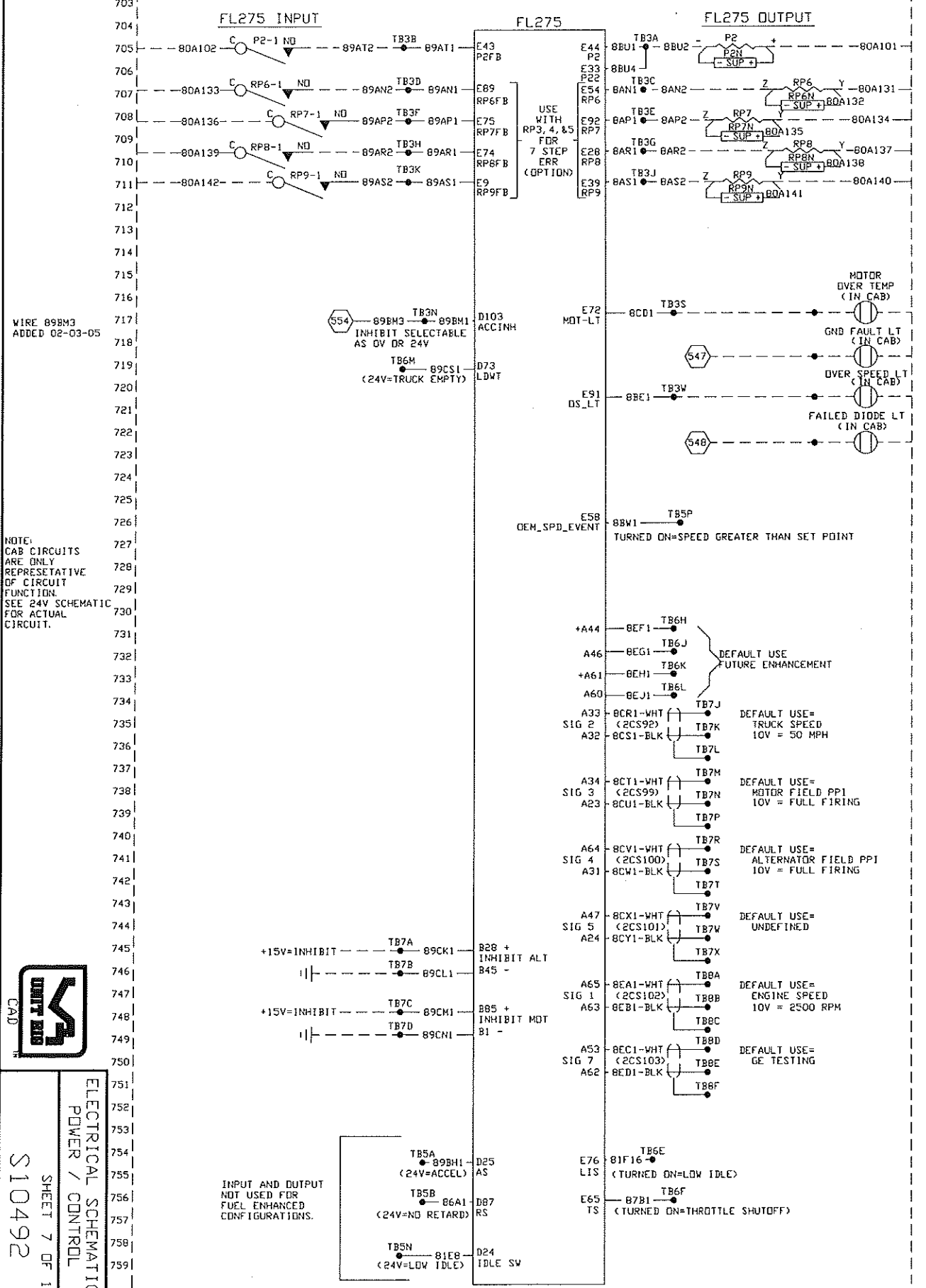


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OPTIONAL INPUT/OUTPUT OF FL275 ARE SHOWN BELOW. THE INPUT/OUTPUT ARE ALWAYS WIRED FROM FL275 TO TB. IF OPTION IS FULLY WIRED ON TRUCK, IT WILL BE SHOWN ON 24 VOLT SCHEMATIC.



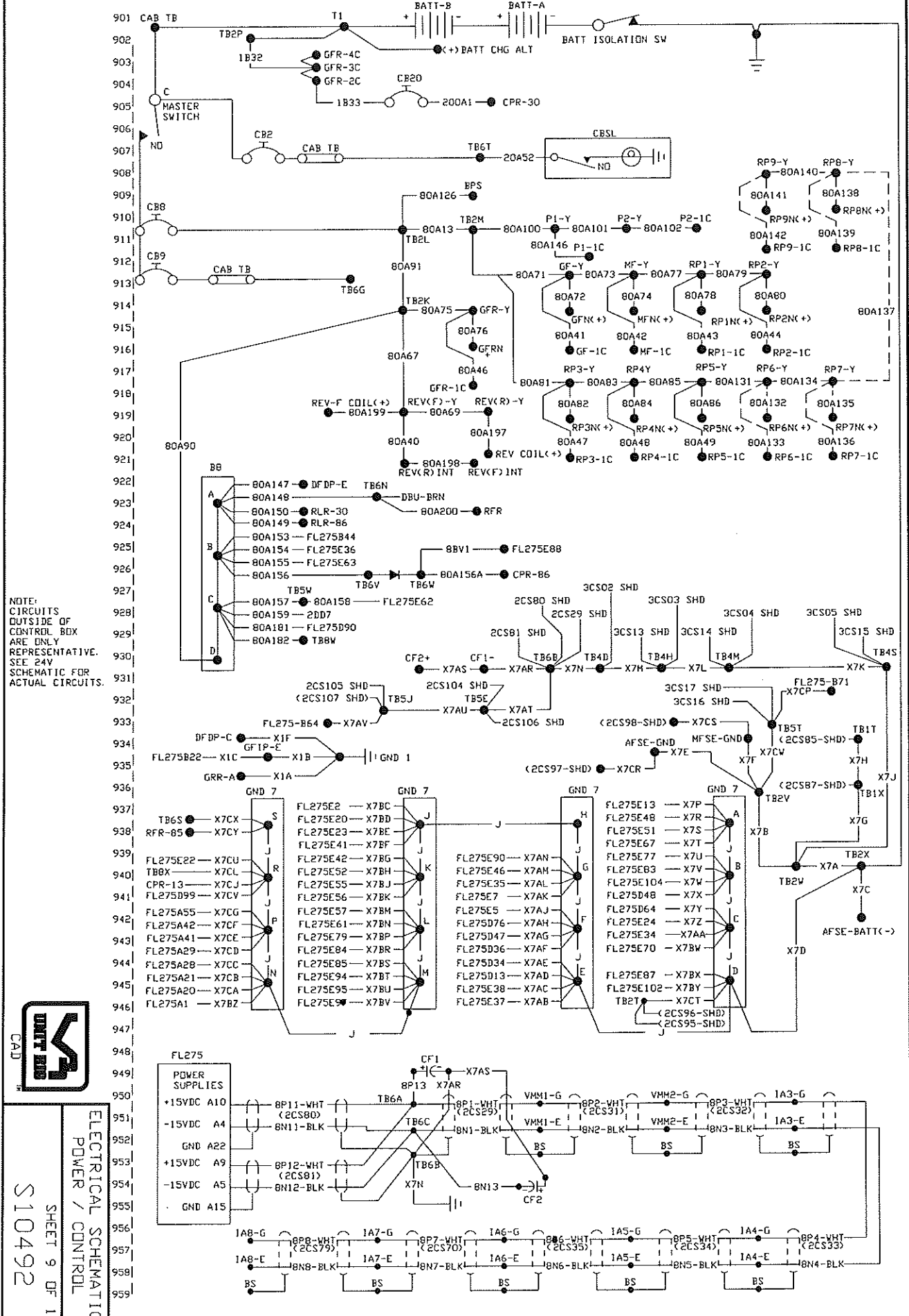
ELECTRICAL SCHEMATIC
POWER / CONTROL
SHEET 7 OF 10
S10492



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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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WIRE NO.

UNIT NO.

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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

TB#	WIRE NUMBER	DESCRIPTION
T88A	8EA1-WHT	SIG 1
T88B	8EB1-BLK	SIG 1
T88C	SHD	SIG 1
T88D	8EC1-WHT	SIG 7
T88E	8ED1-BLK	SIG 7
T88F	SHD	SIG 7
T88G	-----	-----
T88H	-----	-----
T88J	-----	-----
T88K	-----	-----
T88L	-----	-----
T88M	-----	-----
T88N	-----	-----
T88P	-----	-----
T88R	-----	-----
T88S	-----	-----
T88T	-----	-----
T88V	-----	-----
T88W	80A182	24V TEST)
T88X	X7CL	GND TEST)
T86A	8P11-WHT	+15VDC
T86B	SHD	GND
T86C	8N11-BLK	-15VDC
T86D	8BB1	SYS FAULT LIGHT
T86E	81T16	LOW IDLE SOLENOID
T86F	87B1	THROTTLE CUTOUT SOLENOID
T86G	90A25	CONTROL BOX OPTIONS
T86H	8EF1	FUTURE ENHANCEMENT
T86J	8EG1	FUTURE ENHANCEMENT
T86K	8EH1	FUTURE ENHANCEMENT
T86L	8EJ1	FUTURE ENHANCEMENT
T86M	89CS1	LDWT (24V-EMPTY)
T86N	80A148, BRN	DBU-24V
T86P	81W1, WHT	DBU-NC
T86R	89AV2, BLK	DBU-ND
T86S	X7CX, BLU	DBU-GND
T86T	20A52	CTRL BOX SERVICE LIGHT
T86V	80A156	CPR RAW POWER
T86W	80A156A	CPR ISOLATED POWER
T86X	201A1	24V FROM CPR
T84A	89BP1	OIL PRESS SENSOR
T84B	89BR1	OIL PRESS SENSOR
T84C	89BS1	OIL PRESS SENSOR
T84D	SHD	OIL PRESS SENSOR
T84E	89BT1	ENGINE BLOWBY FLOW SENSOR
T84F	89BU1	ENGINE BLOWBY FLOW SENSOR
T84G	89BV1	ENGINE BLOWBY FLOW SENSOR
T84H	SHD	ENGINE BLOWBY FLOW SENSOR
T84J	89BW1	ENGINE COOLANT PRESS
T84K	89BX1	ENGINE COOLANT PRESS
T84L	89BY1	ENGINE COOLANT PRESS
T84M	SHD	ENGINE COOLANT PRESS
T84N	89CA1	ENGINE COOLANT TEMP
T84P	89CB1	ENGINE COOLANT TEMP
T84R	89CC1	ENGINE COOLANT TEMP
T84S	SHD	ENGINE COOLANT TEMP
T84T	89CD1	DDEC-ENG SHT DOWN
T84V	89CE1	DDEC-ENG SERV
T84W	8BZ1	DDEC-ENG SHT DOWN LIGHT
T84X	8CA1	DDEC-ENG SERV LIGHT
T82A	5D4-WHT	MOTOR 1 ARMATURE CURRENT
T82B	5E4-BLK	MOTOR 1 ARMATURE CURRENT
T82C	SHD	MOTOR 1 ARMATURE CURRENT
T82D	5F4-WHT	MOTOR 2 ARMATURE CURRENT
T82E	5G4-BLK	MOTOR 2 ARMATURE CURRENT
T82F	SHD	MOTOR 2 ARMATURE CURRENT
T82G	89CZ1-BLK	ENGINE AMBIENT TEMPERATURE SENSOR
T82H	89CY1-WHT	ENGINE AMBIENT TEMPERATURE SENSOR
T82J	-----	-----
T82K	80A91	24V SUPPLY
T82L	80A23	24V SUPPLY
T82M	80A13	24V SUPPLY
T82N	-----	-----
T82P	1B32	24V-NO BREAKER
T82S	2A5	12V-NO BREAKER
T82T	X	GROUND-BATTERY
T82V	X	GROUND-BATTERY
T82W	X	GROUND-BATTERY
T82X	X	GROUND-BATTERY

TB#	WIRE NUMBER	DESCRIPTION
T89A	4C1-WHT	ASYN OUTPUT
T89B	4D1-BLK	ASYN OUTPUT
T89C	4A2	ASYN INPUT
T89D	4B2	ASYN INPUT
T89E	9C1-WHT	MSYN OUTPUT
T89F	9D1-BLK	MSYN OUTPUT
T89G	9A2	MSYN INPUT
T89H	9B2	MSYN INPUT
T87A	89CK1	+INHIBIT ALT
T87B	89CL1	-INHIBIT ALT
T87C	89CM1	+INHIBIT MOT
T87D	89CN1	-INHIBIT MOT
T87E	89BJ1	DATA STORE
T87F	-----	-----
T87G	-----	-----
T87H	-----	-----
T87J	8CCT1-WHT	SIG 2
T87K	8CS1-BLK	SIG 2
T87L	SHD	SIG 2
T87M	8CT1-WHT	SIG 3
T87N	8CU1-BLK	SIG 3
T87P	SHD	SIG 3
T87R	8CV1-WHT	SIG 4
T87S	8CW1-BLK	SIG 4
T87T	SHD	SIG 4
T87V	8CX1-WHT	SIG 5
T87W	8CY1-BLK	SIG 5
T87X	SHD	SIG 5
T85A	89BH1	AS
T85B	8BA1	RS
T85C	8BT3	+19V FOR RETARD
T85D	89BF1	RETARD LEVEL INPUT
T85E	X7AY	RETARD LEVEL INPUT
T85F	89BA1	RETARD SPEED CONTROL
T85G	89BB1	RETARD SPEED CONTROL
T85H	89BC1	RETARD SPEED CONTROL
T85J	X7AV	RETARD SPEED CONTROL
T85K	89BK1	SS FWD
T85L	89BL1	SS REV
T85M	88U3	+10V FOR FUEL ENHANCEMENT
T85N	81E8	LOW IDLE SW
T85P	88V1	DEM SPEED EVENT
T85R	-----	-----
T85S	89A3	DUMP BODY UP OVERRIDE SW
T85T	X7CP	THROTTLE SENSOR GROUND
T85V	8EK1	THROTTLE SENSOR SIGNAL
T85W	80A157	CPS FEEDBACK
T85X	8BD1	LOW BLOWER PRESS LIGHT
T83A	8BU1	P2 COIL
T83B	89AT1	P2 FEEDBACK
T83C	8AN1	RP6 COIL
T83D	89AN1	RP6 FEEDBACK
T83E	8AP1	RP7 COIL
T83F	89AP1	RP7 FEEDBACK
T83G	8AR1	RP8 COIL
T83H	89AR1	RP8 FEEDBACK
T83J	8AS1	RP9 COIL
T83K	89AS1	RP9 FEEDBACK
T83L	81V1	DUMP BODY UP SW (24V=UP)
T84M	8CC4	DDEC ENGINE CONTRL
T83N	89BM1	ACCCNH
T83P	8CB1	FUTURE ENHANCEMENT
T83R	8EL1	DDEC ENG GND RETURN
T83S	8CD1	MOTOR OVER TEMP LIGHT
T83T	8BB4	SYS FAULT LT
T83V	8BA3	GROUND FAULT
T83W	8BE1	OVERSPEED LIGHT
T83X	8BY1	FAILED DIODE
T81A	7A3-WHT	MOTOR 1 SPEED/SPEEDOMETER
T81B	7B3-BLK	MOTOR 1 SPEED/SPEEDOMETER
T81C	SHD	MOTOR 1 SPEED/SPEEDOMETER
T81D	7C3-WHT	MOTOR 2 SPEED
T81E	7D3-BLK	MOTOR 2 SPEED
T81F	SHD	MOTOR 2 SPEED
T81G	7C3-WHT	ENGINE SPEED/TACHOMETER
T81H	7F3-BLK	ENGINE SPEED/TACHOMETER
T81J	SHD	ENGINE SPEED/TACHOMETER
T81K	89BM1	OUTPUT TO DYNAMIC RETARD LIGHT
T81L	83B4	BLOWER PRESSURE SW INPUT
T81M	25A12	HAND BRAKE (SERVBRKSW INPUT)
T81N	89CR1	PARK BRAKE SW INPUT
T81P	-----	-----
T81R	89CF1-WHT	MOTOR 1 TEMP
T81S	89CG1-BLK	MOTOR 1 TEMP
T81T	SHD	MOTOR 1 TEMP
T81V	89CH1-WHT	MOTOR 2 TEMP
T81W	89CJ1-BLK	MOTOR 2 TEMP
T81X	SHD	MOTOR 2 TEMP



ELECTRICAL SCHEMATIC
POWER / CONTROL
SHEET 10 OF 10
S10492



E.N. NO.

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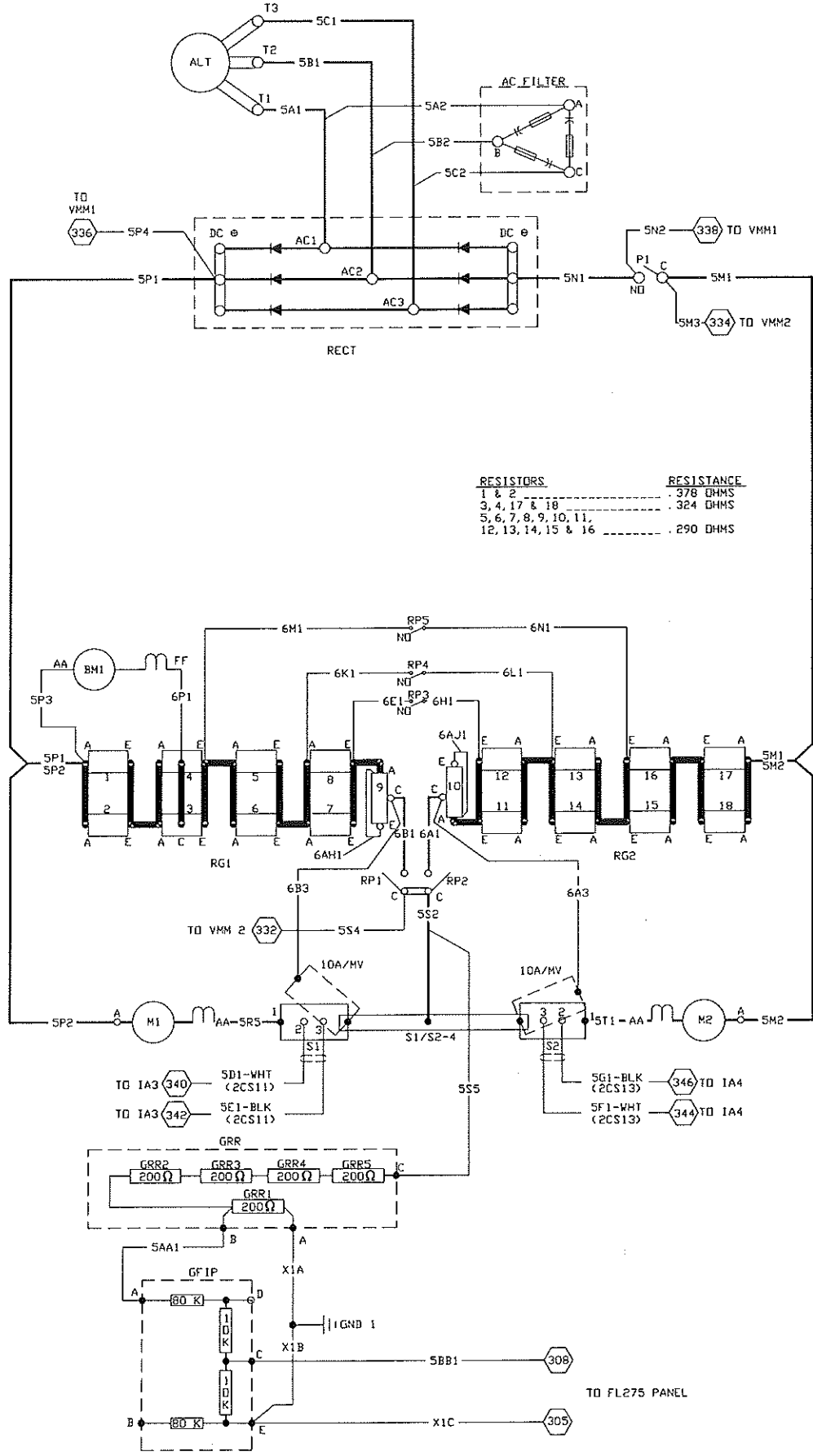
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RESISTORS	RESISTANCE
1 & 2	.378 OHMS
3, 4, 17 & 18	.324 OHMS
5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 & 16	.290 OHMS

18 GRIDS, 3 STEP ERR. & P1 ONLY

SWING-SHUNT LOAD BOX



SHEET 2B OF 10

ELECTRICAL SCHEMATIC
POWER / CONTROL

S10492



E.N. NO.

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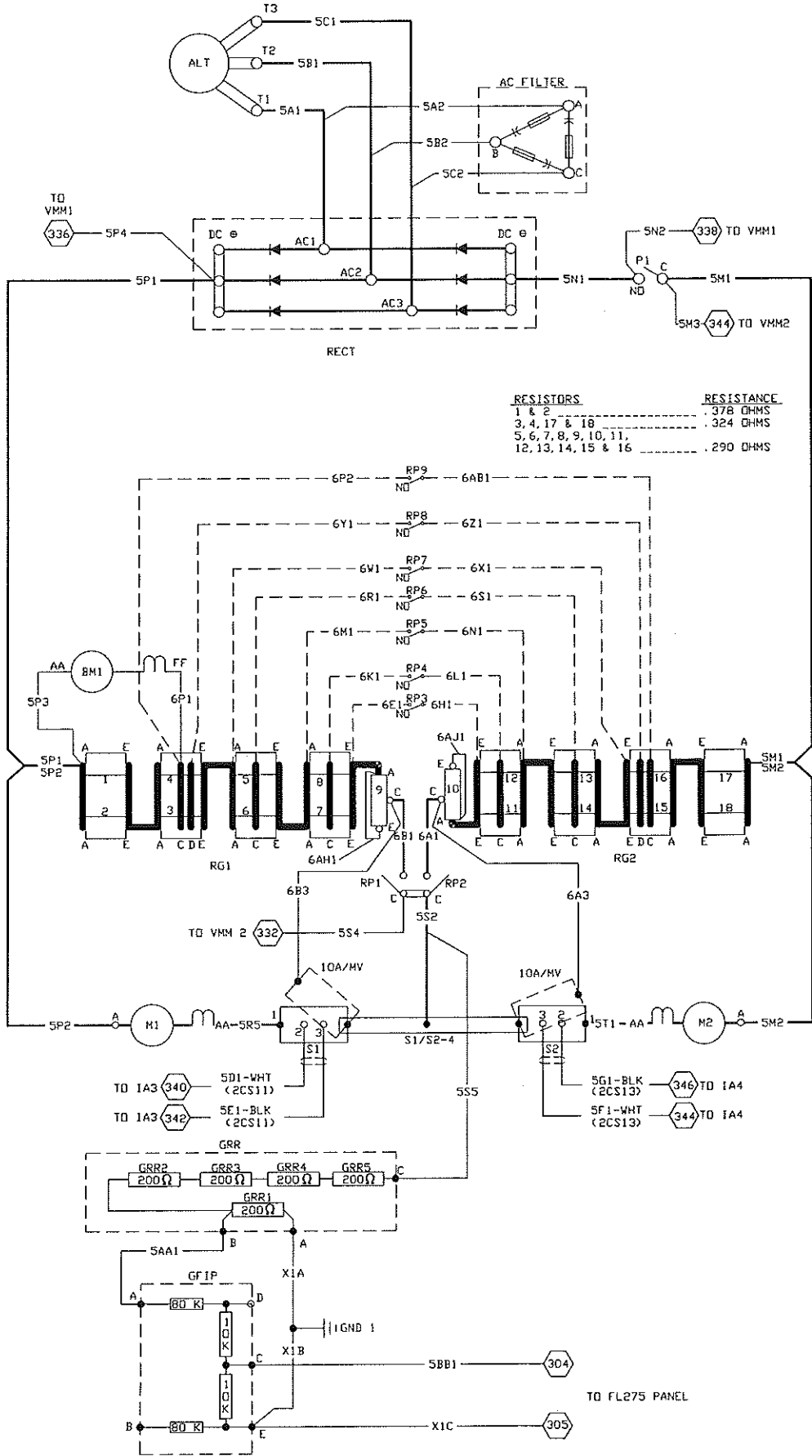
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18 GRIDS, 7 STEP ERR. & P1 ONLY



SHEET 2C DF 10
S10492

ELECTRICAL SCHEMATIC
POWER / CONTROL



E.N. NO.
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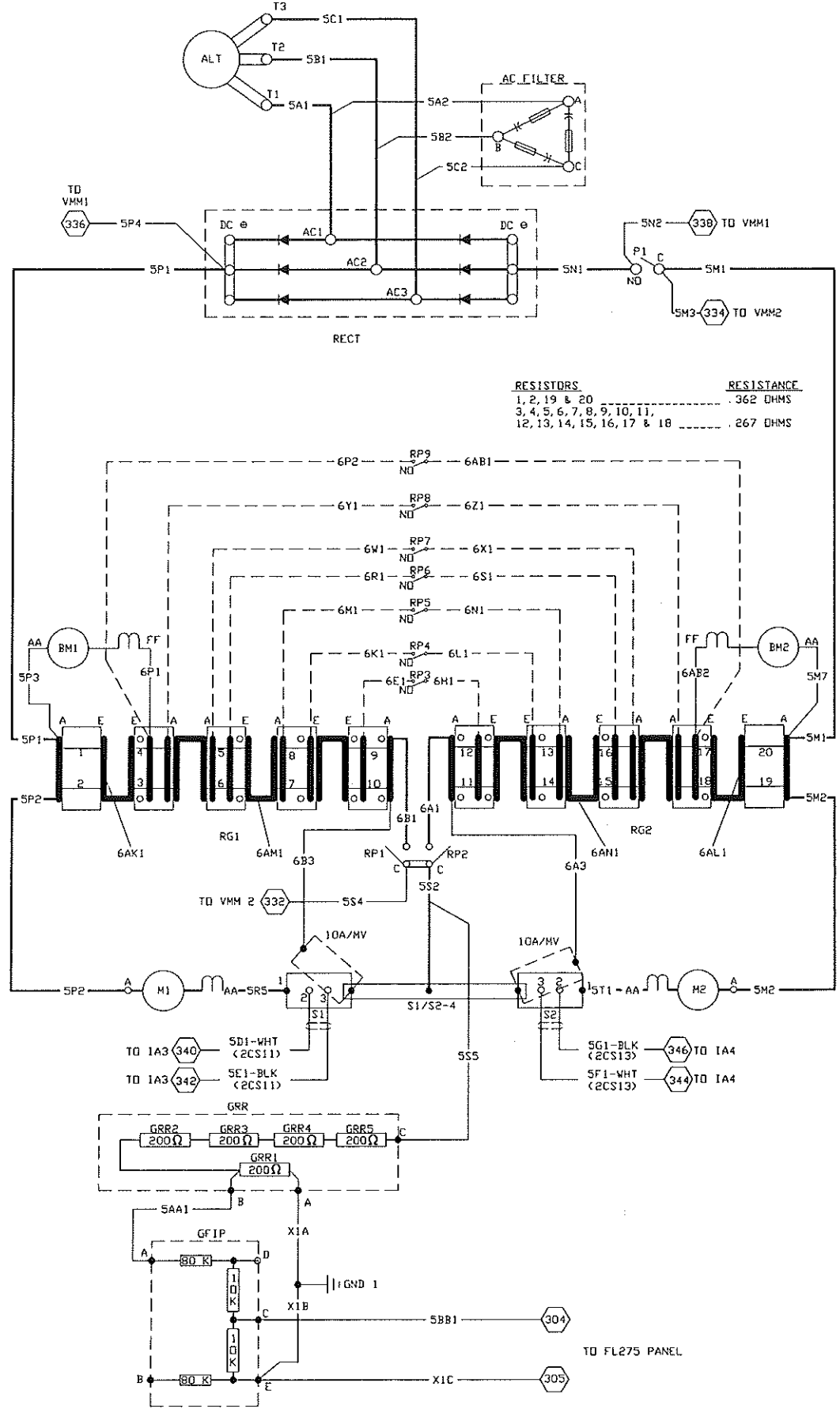
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RESISTORS	RESISTANCE
1, 2, 19 & 20	362 OHMS
3, 4, 5, 6, 7, 8, 9, 10, 11,	
12, 13, 14, 15, 16, 17 & 18	267 OHMS

20 GRIDS, 7 STEP ERR



ELECTRICAL SCHEMATIC
POWER / CONTROL
SHEET 2D OF 10
S10492



EN. NO.

88470

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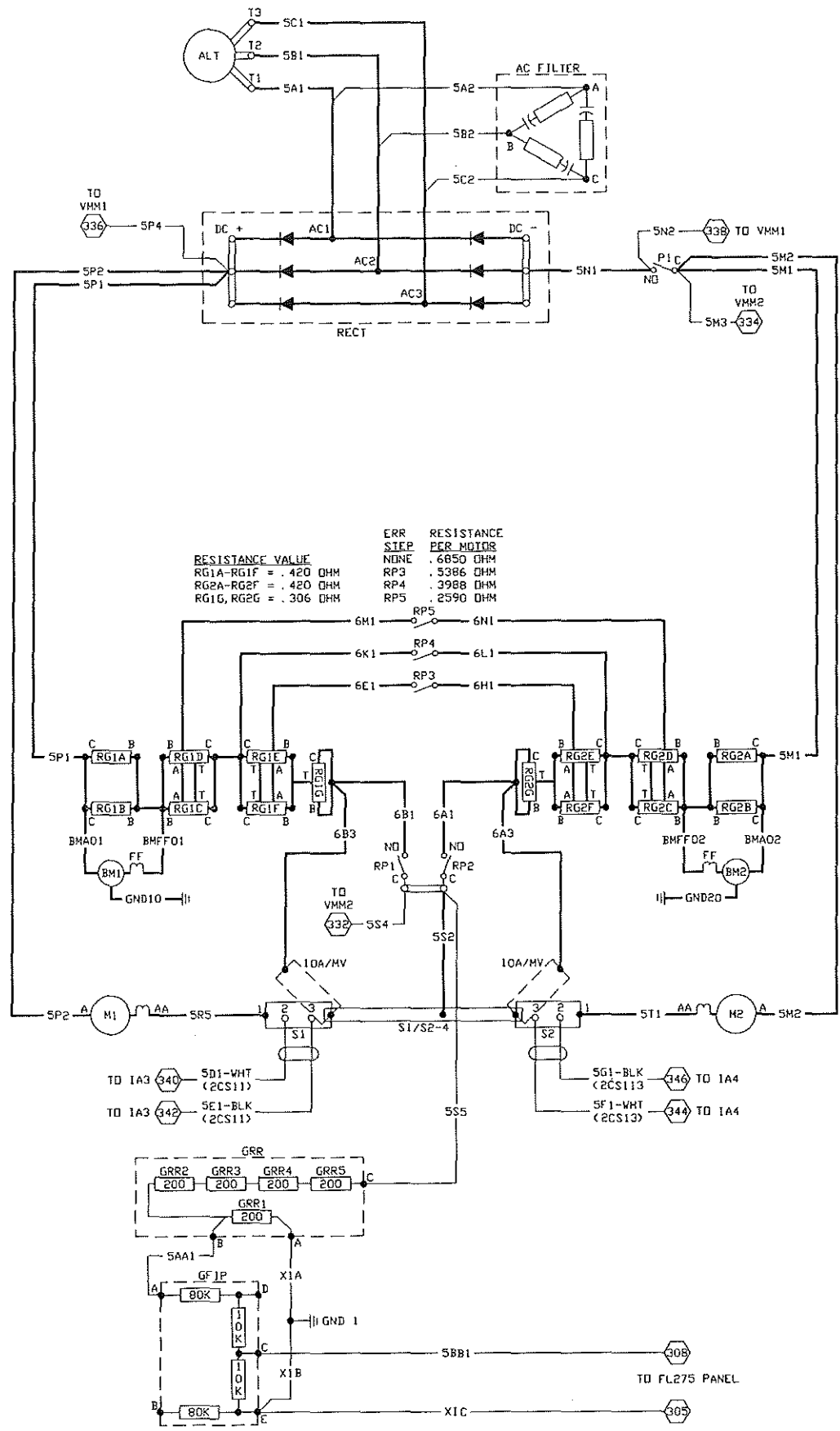
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FOR CABLES CONNECTED TO GRID BOX---
GE VS UNIT RIG
CABLE #
P1S=5M1
P2S=5P1
RP1S1=6B1
RP1S2=6B3
RP2S1=6A1
RP2S2=6A3
RP3M=6M1
RP3S=6C1
RP4M=6L1
RP4S=6K1
RP5M=6N1
RP5S=6M1

14 GRIDS, 3 STEP ERR. & P1 ONLY



ELECTRICAL SCHEMATIC
POWER / CONTROL
SHEET 28 OF 10
S10492



RESISTANCE VALUE	ERR	RESISTANCE
RG1A-RG1F = .420 OHM	STEP	PER MOIQR
RG2A-RG2F = .420 OHM	NONE	.6850 OHM
RG1G, RG2G = .306 OHM	RP3	.5386 OHM
	RP4	.3988 OHM
	RP5	.2590 OHM

SWING-SHUNT
LOAD BOX

TO FL275 PANEL



E.N. NO.
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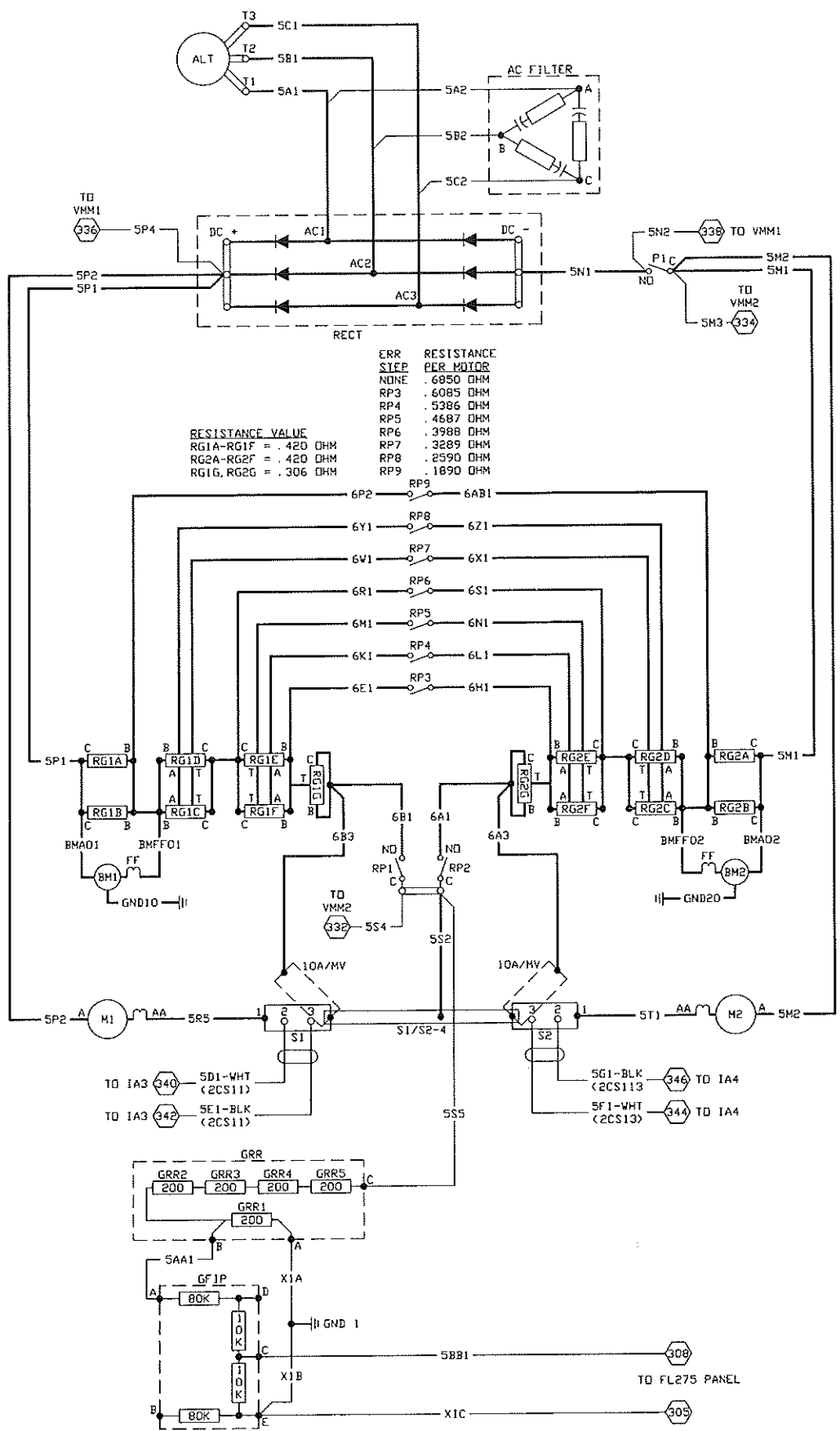
FOR CABLES CONNECTED TO GRID BOX --- GE VS UNIT RIG

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=6A1
RP9S=6P2

14 GRIDS, 7 STEP ERR. & P1 ONLY



ELECTRICAL SCHEMATIC
POWER / CONTROL
SHEET 2F OF 10
S10492



ERR STEP	RESISTANCE PER MOTOR
NDNE	.6850 OHM
RP3	.6085 OHM
RP4	.5386 OHM
RP5	.4687 OHM
RP6	.3988 OHM
RP7	.3289 OHM
RP8	.2590 OHM
RP9	.1890 OHM

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

SWING-SHUNT LOAD BOX

