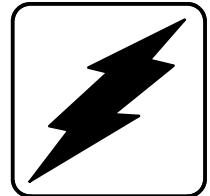


# Wiring Diagrams

## Industrial Generator Sets



Models:

**450REOZD-4**  
**500-2000ROZD-4**

Controllers:

Decision-Maker™ 550  
Decision-Maker™ 340  
Decision-Maker™ 3+  
Engine Gauge Box for Paralleling Switchgear



**KOHLER**<sup>®</sup>  
POWER SYSTEMS

TP-6004 4/01e



This manual provides wiring diagrams for the 450REOZD-4 and 500-2000ROZD-4 Detroit Diesel engine-powered generator sets equipped with one of the following controllers:

- Decision-Maker™ 550
- Decision-Maker™ 340
- Decision-Maker™ 3+
- Engine Gauge Box for Paralleling Switchgear

At the time of print this manual applied to the model numbers and specification (spec) numbers shown in the Wiring Diagram Cross-Reference chart. On occasion this manual may apply to specs not listed in the Wiring Diagram Cross-Reference chart.

Information in this publication represents data available at the time of print. Kohler Co. reserves the right to change this publication and the products represented without notice and without any obligation or liability whatsoever.

xin:001:002

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- Look on the product or in the information included with the product
- Consult the Yellow Pages under the heading Generators—Electric
- Visit the Kohler Co. Generator Division web site at [www.kohlergenerators.com](http://www.kohlergenerators.com)
- Inside the U.S.A. and Canada, call 1-800-544-2444
- Outside the U.S.A. and Canada, call the nearest regional office

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Xin:008:001

# Wiring Diagrams

Use the Wiring Diagram Cross-Reference chart to determine the wiring diagram version number for a given model number and spec number. Then find that version number and the controller type on the Controller

Wiring Diagrams Reference chart to determine the wiring diagram numbers for your unit. Refer to the generator set operation manual for controller type identification, if necessary.

## Wiring Diagram Cross-Reference

Model No.	Hz	Generator Set Spec No.	Wiring Diagram Version No.
450ROZD-4	50	PA-197001	1-1
450ROZD-4	50	GM16974-GA2	1-2
500ROZD-4	50	PA-197014	2-1
500ROZD-4	50	GM16975-GA2	2-2
600ROZD-4	50	PA-197016	2-1
600ROZD-4	50	GM16976-GA2	2-2
750ROZD-4	50	PA-197018	2-1
750ROZD-4	50	GM16977-GA3	2-2
800ROZD-4	50	PA-197020	2-1
800ROZD-4	50	GM16978-GA2	2-2
900ROZD-4	50	PA-197022	2-1
900ROZD-4	50	GM16979-GA2	2-2
1250ROZD-4	50	PA-132999	3-1
1250ROZD-4	50	GM16797-GA2	3-2
1500ROZD-4	50	PA-132848	3-1
1500ROZD-4	50	GM16798-GA2	3-2
1750ROZD-4	50	PA-132888	3-1
1750ROZD-4	50	GM16799-GA2	3-2
2000ROZD-4	50	PA-132835	3-1
2000ROZD-4	50	GM16800-GA2	3-2
450ROZD-4	60	PA-197002	1-1
450ROZD-4	60	GM16974-GA1	1-2
500ROZD-4	60	PA-197003	1-1
500ROZD-4	60	GM16975-GA1	1-2
600ROZD-4	60	PA-197015	2-1
600ROZD-4	60	GM16976-GA1	2-2
750ROZD-4	60	PA-197017, PA-197038	2-1
750ROZD-4	60	GM16977-GA1, GM16977-GA2	2-2
800ROZD-4	60	PA-197019	2-1
800ROZD-4	60	GM16978-GA1	2-2
900ROZD-4	60	PA-197021	2-1
900ROZD-4	60	GM16979-GA1, GM17864-GA1	2-2
1000ROZD-4	60	PA-197023	2-1
1000ROZD-4	60	GM16980-GA1, GM17865-GA1	2-2
1250ROZD-4	60	PA-132998	3-1
1250ROZD-4	60	GM16797-GA1	3-2
1500ROZD-4	60	PA-132847	3-1
1500ROZD-4	60	GM16798-GA1	3-2
1750ROZD-4	60	PA-132887	3-1
1750ROZD-4	60	GM16799-GA1	3-2
2000ROZD-4	60	PA-132834	3-1
2000ROZD-4	60	GM16800-GA1	3-2

## Controller Wiring Diagrams Reference, Versions 1-1, 2-1, and 3-1

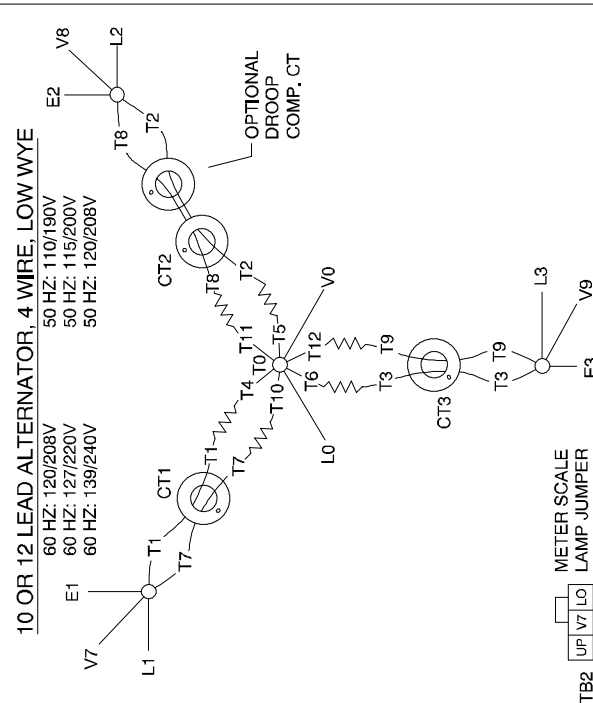
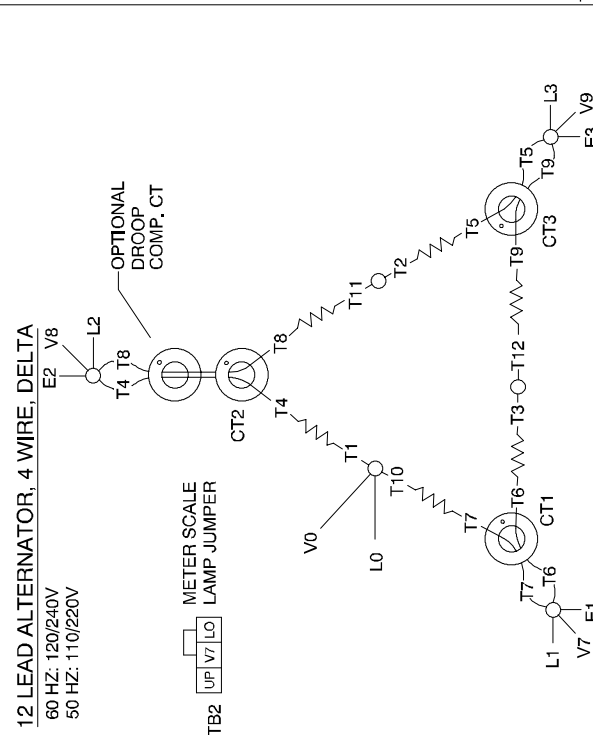
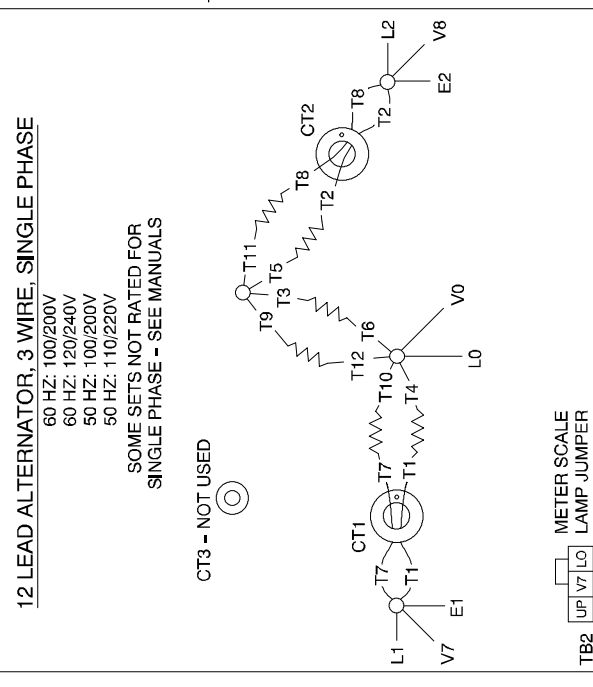
Controller Description	Version 1-1	Page	Version 2-1	Page	Version 3-1	Page
<b>Decision-Maker™ 340</b>						
Point-to-Point Wiring Diagram						
Sheet 1	361859A-	50	361354A-D	44	361354A-D	44
Sheet 2	361859B-	51	361354B-D	45	361354B-D	45
Schematic Diagram						
Sheet 1	ADV-6466A-	8	ADV-6445A-C	4	ADV-6445A-C	4
Sheet 2	ADV-6466B-	9	ADV-6445B-C	5	ADV-6445B-C	5
Accessory Connections						
Sheet 1	354246A-D	40	354246A-D	40	354246A-D	40
Sheet 2	354246B-D	41	354246B-D	41	354246B-D	41
Sheet 3	GM16758C-A	23	GM16758C-A	23	GM16758C-A	23
Sheet 4	GM16758E-A	25	GM16758E-A	25	GM16758E-A	25
Sheet 5	GM16758G-A	27	GM16758G-A	27	GM16758G-A	27
<b>Decision-Maker™ 3+</b>						
Point-to-Point Wiring Diagram						
Sheet 1	361858A-	48	361264A-E	42	361264A-E	42
Sheet 2	361858B-	49	361264B-E	43	361264B-E	43
Schematic Diagram						
Sheet 1	ADV-6465A-A	6	ADV-6393A-E	2	ADV-6393A-E	2
Sheet 2	ADV-6465B-A	7	ADV-6393B-E	3	ADV-6393B-E	3
Accessory Connections						
Sheet 1	328912A-F	37	328912A-F	37	328912A-F	37
Sheet 2	328912B-F	38	328912B-F	38	328912B-F	38
Sheet 3	328912C-F	39	328912C-F	39	328912C-F	39
Sheet 4	GM16758B-A	22	GM16758B-A	22	GM16758B-A	22
Sheet 5	GM16758D-A	24	GM16758D-A	24	GM16758D-A	24
Sheet 6	GM16758F-A	26	GM16758F-A	26	GM16758F-A	26
<b>Engine Gauge Box for Paralleling Switchgear</b>						
Point-to-Point Wiring Diagram						
Sheet 1	365262A-	52	361541A-C	46	361541A-C	46
Sheet 2	365262B-	53	361541B-C	47	361541B-C	47
Schematic Diagram						
Sheet 1	ADV-6492A-A	12	ADV-6467A-B	10	ADV-6467A-B	10
Sheet 2	ADV-6492B-A	13	ADV-6467B-B	11	ADV-6467B-B	11
<b>Generator Reconnections (all models)</b>	ADV-5875B-D	1	ADV-5875B-D	1	ADV-5875B-D	1

## Controller Wiring Diagrams Reference, Versions 1-2 and 2-2, and 3-2

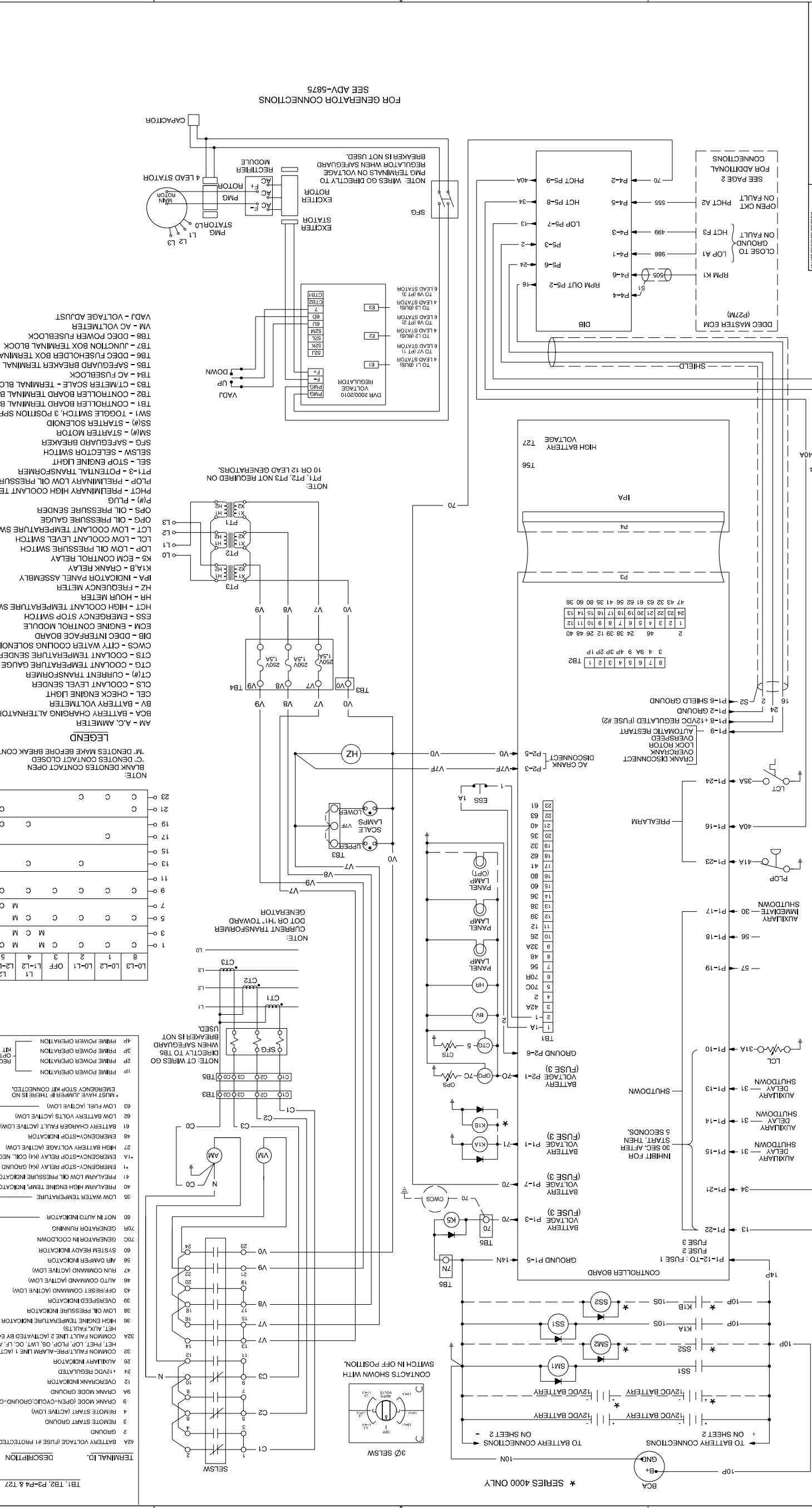
Controller Description	Version 1-2	Page	Version 2-2	Page	Version 3-2	Page
<b>Decision-Maker™ 550 (190-600 Volt)</b>						
Point-to-Point Wiring Diagram						
Sheet 1	GM16925A-	31	GM16995A-	33	GM16995A-	33
Sheet 2	GM16925B-	32	GM16995B-	34	GM16995B-	34
Schematic Diagram						
Sheet 1	ADV-6601A-	14	ADV-6602A-	16	ADV-6602A-	16
Sheet 2	ADV-6601B-	15	ADV-6602B-	17	ADV-6602B-	17
Accessory Connections						
Sheet 1	GM16088A-A	20	GM16088A-A	20	GM16088A-A	20
Sheet 2	GM16088B-A	21	GM16088B-A	21	GM16088B-A	21
Sheet 3	GM16759B-B	28	GM16759B-B	28	GM16759B-B	28
Sheet 4	GM16759C-B	29	GM16759C-B	29	GM16759C-B	29
Sheet 5	GM16759D-B	30	GM16759D-B	30	GM16759D-B	30
<b>Decision-Maker™ 550 (1905-4160 Volt)</b>						
Point-to-Point Wiring Diagram						
Sheet 1	—		—		GM17689A-	35
Sheet 2	—		—		GM17689B-	36
Schematic Diagram						
Sheet 1	—		—		ADV-6611A-	18
Sheet 2	—		—		ADV-6611B-	19
<b>Decision-Maker™ 3+</b>						
Point-to-Point Wiring Diagram						
Sheet 1	361858A-	48	361264A-E	42	361264A-E	42
Sheet 2	361858B-	49	361264B-E	43	361264B-E	43
Schematic Diagram						
Sheet 1	ADV-6465A-A	6	ADV-6393A-E	2	ADV-6393A-E	2
Sheet 2	ADV-6465B-A	7	ADV-6393B-E	3	ADV-6393B-E	3
Accessory Connections						
Sheet 1	328912A-F	37	328912A-F	37	328912A-F	37
Sheet 2	328912B-F	38	328912B-F	38	328912B-F	38
Sheet 3	328912C-F	39	328912C-F	39	328912C-F	39
Sheet 4	GM16758B-A	22	GM16758B-A	22	GM16758B-A	22
Sheet 5	GM16758D-A	24	GM16758D-A	24	GM16758D-A	24
Sheet 6	GM16758F-A	26	GM16758F-A	26	GM16758F-A	26
<b>Engine Gauge Box for Paralleling Switchgear</b>						
Point-to-Point Wiring Diagram						
Sheet 1	365262A-	52	361541A-C	46	361541A-C	46
Sheet 2	365262B-	53	361541B-C	47	361541B-C	47
Schematic Diagram						
Sheet 1	ADV-6492A-A	12	ADV-6467A-B	10	ADV-6467A-B	10
Sheet 2	ADV-6492B-A	13	ADV-6467B-B	11	ADV-6467B-B	11
<b>Generator Reconnections (all models)</b>						
	ADV-5875B-D	1	ADV-5875B-D	1	ADV-5875B-D	1

REV	DATE	REVISION	BY	APP
A	8-25-98	SEE SHEET 1 OF 2 [56805]	LDS	
B	11-5-98	[A,B-4] V7, V8 AND V9 MOVED [56797]	JS	
C	6-2-99	SEE SHEET 1 OF 2 [56896]	SAM	
D	6-17-99	DIAGRAMS UPDATED [59021]	KAR	

**GENERATOR CONNECTIONS**



REV	DATE	REVISION	BY
B	04-15-98	(B-2)P4-4, S1 AND SHIELDED CABLE ADDED; (A-3) 600-1000 KW SERIES 2000 & 1250-2000 KW SERIES 4000 WAS DETROIT DIESEL SERIES 4000 AND SERIES 2000; DRAWING UPDATED TO MEET CURRENT STANDARDS [56042]	
C	10-25-98	(A-3) 500-1000 KW WAS 400-1000 KW [56000] (A-3) 500-1000 KW WAS 400-1000 KW [56000]	LDS
D	3-31-99	(A-B-7) SERIES 4000 ONLY BATTERIES ADDED [56286] (A-B-7) SERIES 4000 ONLY BATTERIES ADDED [56286]	LDS
E	12-15-00	DRAWING UPDATED TO CURRENT STANDARDS [63486]	JS



VALVE OPERATIONAL SYMBOLS	DATE	APPROVALS	DATE	APPROVALS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	10/25/98	[Signature]	10/25/98	[Signature]

**DIAGRAM, SCHEMATIC**

DATE: 10/25/98  
DRAWN: KAR  
CHECKED: TLK  
DESIGNED: JDC  
APPROVED: JDC

DATE: 12/15/00  
DRAWN: ADV/SSJ/ADW/G  
CHECKED: JDC  
DESIGNED: JDC  
APPROVED: JDC

SHEET 1-2 OF 2

ADV-6393

REV	DATE	REVISION	BY
C	10-26-08	(B4R) SEL & CEL VIEWS UPDATED; (A-2) 900-1000 KW WAS	W
D	3-31-09	400-1000 KW (B5900)	W
E	12-15-00	DRAWING UPDATED TO CURRENT STANDARDS. (C-5) P30 WAS	W
		P5; (C-4) P31 WAS P29 (B3585)	W

REV	DATE	REVISION	BY
C	10-26-08	(B4R) SEL & CEL VIEWS UPDATED; (A-2) 900-1000 KW WAS	W
D	3-31-09	400-1000 KW (B5900)	W
E	12-15-00	DRAWING UPDATED TO CURRENT STANDARDS. (C-5) P30 WAS	W
		P5; (C-4) P31 WAS P29 (B3585)	W

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E	12-15-00	DRAWING UPDATED TO CURRENT STANDARDS. (C-5) P30 WAS	W
		P5; (C-4) P31 WAS P29 (B3585)	W

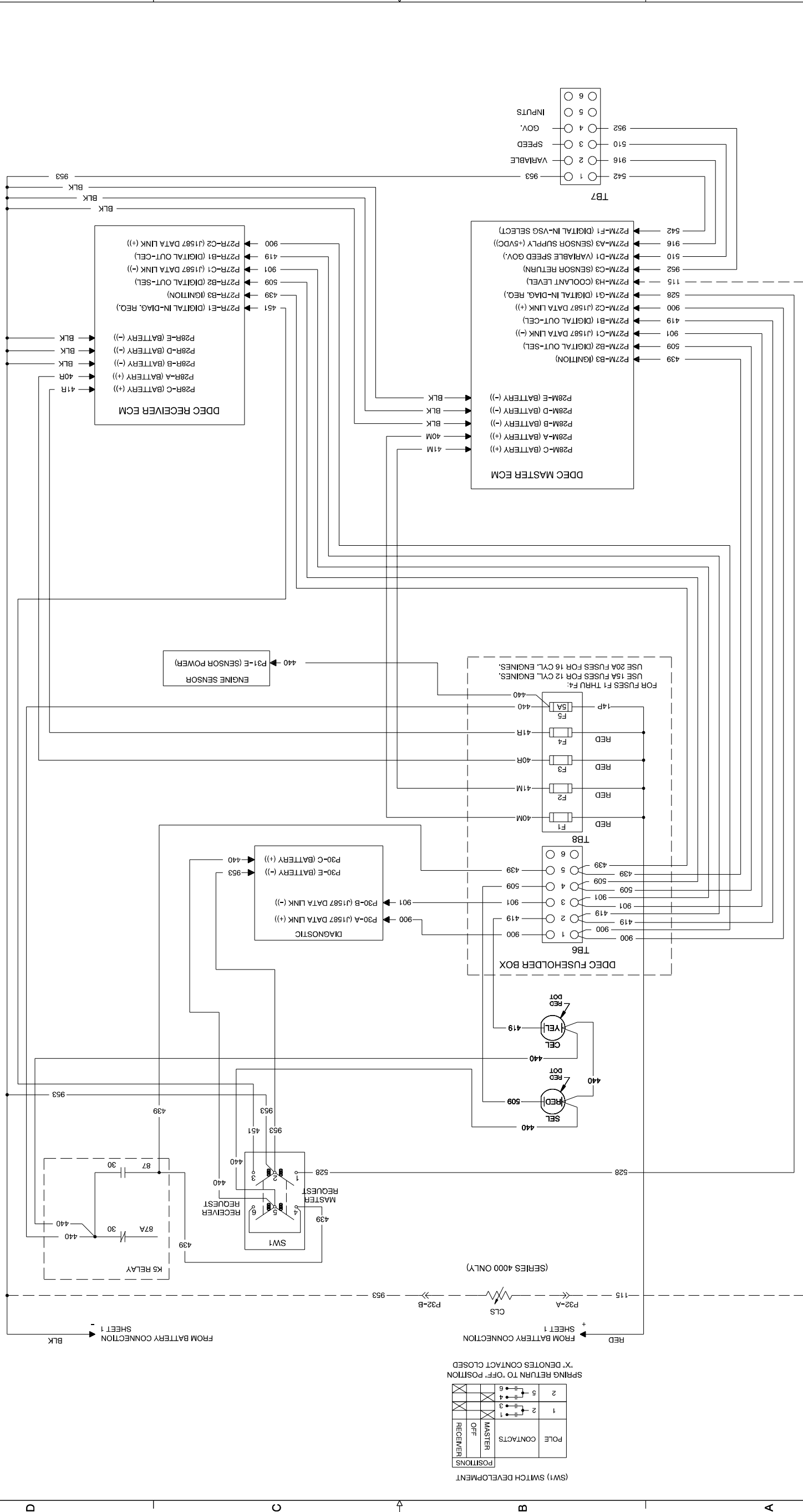
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REV	DATE	REVISION	BY
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		P5; (C-4) P31 WAS P29 (B3585)	W

REV	DATE	REVISION	BY
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E	12-15-00	DRAWING UPDATED TO CURRENT STANDARDS. (C-5) P30 WAS	W
		P5; (C-4) P31 WAS P29 (B3585)	W



(SW1) SWITCH DEVELOPMENT

POLE	CONTACTS	POSITIONS
1	2	1
		3
2	5	4
		6

X DENOTES RETURN TO 'OFF' POSITION  
SPRING RETURN TO 'OFF' POSITION

REV	DATE	REVISION	BY
C	10-26-08	(B4R) SEL & CEL VIEWS UPDATED; (A-2) 900-1000 KW WAS	W
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E	12-15-00	DRAWING UPDATED TO CURRENT STANDARDS. (C-5) P30 WAS	W
		P5; (C-4) P31 WAS P29 (B3585)	W

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D	3-31-09	400-1000 KW (B5900)	W
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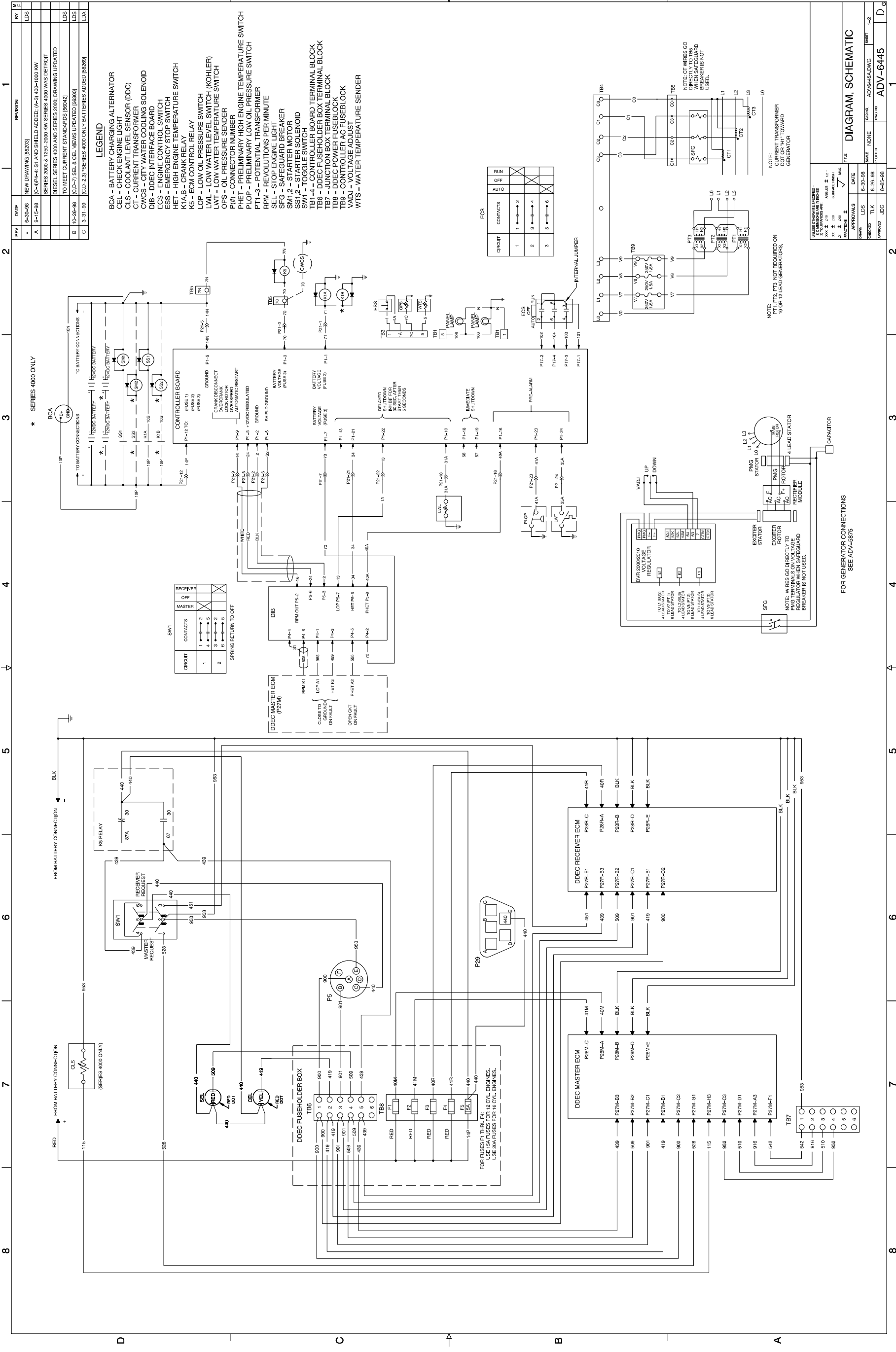
REV	DATE	REVISION	BY
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D	3-31-09	400-1000 KW (B5900)	W
E	12-15-00	DRAWING UPDATED TO CURRENT STANDARDS. (C-5) P30 WAS	W
		P5; (C-4) P31 WAS P29 (B3585)	W

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D	3-31-09	400-1000 KW (B5900)	W
E	12-15-00	DRAWING UPDATED TO CURRENT STANDARDS. (C-5) P30 WAS	W
		P5; (C-4) P31 WAS P29 (B3585)	W

Decision-Maker™ 3+ Controller, Schematic Diagram, Sheet 2, ADV-6393B-E



**LEGEND**

- BCA - BATTERY CHARGING ALTERNATOR
- CEL - CHECK ENGINE LIGHT
- CLS - COOLANT LEVEL SENSOR (DDC)
- CMG - CRANK MOTOR
- CMS - CRANK MOTOR SOLENOID
- DIB - DDEC INTERFACE BOARD
- ECS - ENGINE CONTROL SWITCH
- ESS - EMERGENCY STOP SWITCH
- HET - HIGH ENGINE TEMPERATURE SWITCH
- K1A, B - CRANK RELAY
- KS - ECM CONTROL RELAY
- LDP - LOW OIL PRESSURE SWITCH
- LWL - LOW WATER LEVEL SWITCH (KOHLER)
- LWT - LOW WATER TEMPERATURE SWITCH
- OPS - OIL PRESSURE SENDER
- PI# - CONNECTOR NUMBER
- PHET - PRELIMINARY HIGH ENGINE TEMPERATURE SWITCH
- P10P - POTENTIAL TRANSFORMER
- RPM - REVOLUTIONS PER MINUTE
- SFL - STOP ENGINE LIGHT
- SFG - SAFEGUARD BREAKER
- SM1,2 - STARTER SOLENOID
- SW1 - TOGGLE SWITCH
- TB1-4 - CONTROLLER BOARD TERMINAL BLOCK
- TB6 - DDEC FUSEHOLDER BOX TERMINAL BLOCK
- TB7 - JUNCTION BOX TERMINAL BLOCK
- TB8 - DDEC POWER FUSEBLOCK
- WTS - WATER TEMPERATURE SWITCH
- WTS - WATER TEMPERATURE SENDER

RECEIVER	OFF	MASTER
CIRCUIT	1	2
CONTACTS	4	5
	3	6
	2	5

SPRING RETURN TO OFF

ECS	CONTRACTS	OFF	ON
CIRCUIT	1	2	3
	2	3	4
	3	4	5
	4	5	6

DATE	REV	BY
5-30-88	1	LDS
5-30-88	2	LDS
5-30-88	3	LDS
5-30-88	4	LDS
5-30-88	5	LDS
5-30-88	6	LDS
5-30-88	7	LDS
5-30-88	8	LDS
5-30-88	9	LDS
5-30-88	10	LDS

DATE	REV	BY
5-30-88	1	LDS
5-30-88	2	LDS
5-30-88	3	LDS
5-30-88	4	LDS
5-30-88	5	LDS
5-30-88	6	LDS
5-30-88	7	LDS
5-30-88	8	LDS
5-30-88	9	LDS
5-30-88	10	LDS

DATE	REV	BY
5-30-88	1	LDS
5-30-88	2	LDS
5-30-88	3	LDS
5-30-88	4	LDS
5-30-88	5	LDS
5-30-88	6	LDS
5-30-88	7	LDS
5-30-88	8	LDS
5-30-88	9	LDS
5-30-88	10	LDS

DATE	REV	BY
5-30-88	1	LDS
5-30-88	2	LDS
5-30-88	3	LDS
5-30-88	4	LDS
5-30-88	5	LDS
5-30-88	6	LDS
5-30-88	7	LDS
5-30-88	8	LDS
5-30-88	9	LDS
5-30-88	10	LDS

DATE	REV	BY
5-30-88	1	LDS
5-30-88	2	LDS
5-30-88	3	LDS
5-30-88	4	LDS
5-30-88	5	LDS
5-30-88	6	LDS
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5-30-88	8	LDS
5-30-88	9	LDS
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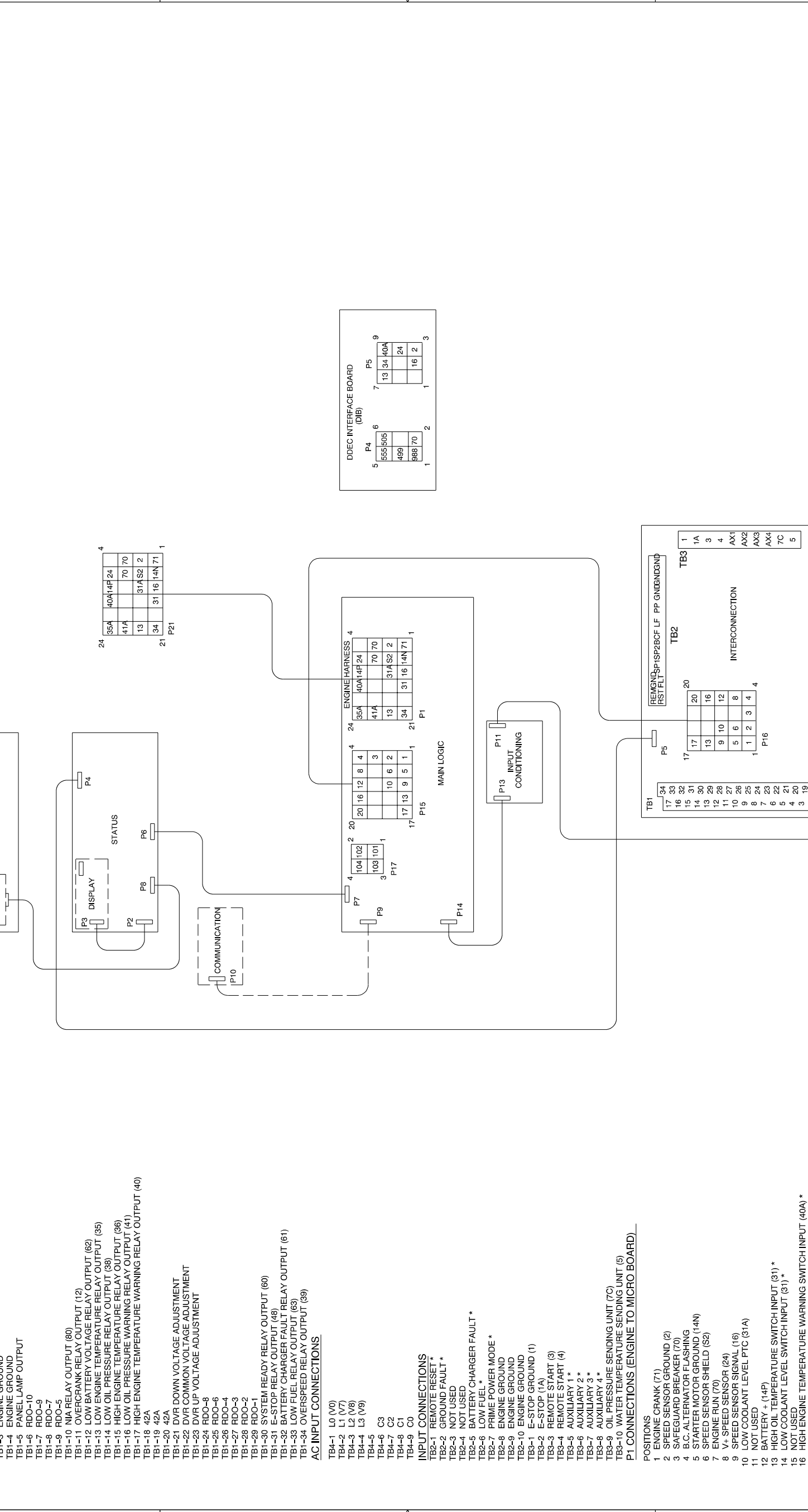
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5-30-88	7	LDS
5-30-88	8	LDS
5-30-88	9	LDS
5-30-88	10	LDS

DATE	REV	BY
5-30-88	1	LDS
5-30-88	2	LDS
5-30-88	3	LDS
5-30-88	4	LDS
5-30-88	5	LDS
5-30-88	6	LDS
5-30-88	7	LDS
5-30-88	8	LDS
5-30-88	9	LDS
5-30-88	10	LDS

**Decision-Maker™ 340 Controller, Schematic Diagram, Sheet 1, ADV-6445A-C**

REV	DATE	REVISION	BY
-	6-20-98	NEW DRAWING (55033)	LDS
A	10-2-98	(A-3) 400-1000 KW SERIES 2000 & 1250-2000 KW SERIES 4000 WAS DETROIT DIESEL SERIES 4000 AND SERIES 2000; DRAWING UPDATED TO MEET CURRENT STANDARDS (56042)	LDS
C	3-31-99	(SEE SHEET 1 OF 2 (53289))	LDA

REV	DATE	REVISION	BY
-	6-20-98	NEW DRAWING (55033)	LDS
A	10-2-98	(A-3) 400-1000 KW SERIES 2000 & 1250-2000 KW SERIES 4000 WAS DETROIT DIESEL SERIES 4000 AND SERIES 2000; DRAWING UPDATED TO MEET CURRENT STANDARDS (56042)	LDS
C	3-31-99	(SEE SHEET 1 OF 2 (53289))	LDA



REV	DATE	REVISION	BY
-	6-20-98	NEW DRAWING (55033)	LDS
A	10-2-98	(A-3) 400-1000 KW SERIES 2000 & 1250-2000 KW SERIES 4000 WAS DETROIT DIESEL SERIES 4000 AND SERIES 2000; DRAWING UPDATED TO MEET CURRENT STANDARDS (56042)	LDS
C	3-31-99	(SEE SHEET 1 OF 2 (53289))	LDA

REV	DATE	REVISION	BY
-	6-20-98	NEW DRAWING (55033)	LDS
A	10-2-98	(A-3) 400-1000 KW SERIES 2000 & 1250-2000 KW SERIES 4000 WAS DETROIT DIESEL SERIES 4000 AND SERIES 2000; DRAWING UPDATED TO MEET CURRENT STANDARDS (56042)	LDS
C	3-31-99	(SEE SHEET 1 OF 2 (53289))	LDA

REV	DATE	REVISION	BY
-	6-20-98	NEW DRAWING (55033)	LDS
A	10-2-98	(A-3) 400-1000 KW SERIES 2000 & 1250-2000 KW SERIES 4000 WAS DETROIT DIESEL SERIES 4000 AND SERIES 2000; DRAWING UPDATED TO MEET CURRENT STANDARDS (56042)	LDS
C	3-31-99	(SEE SHEET 1 OF 2 (53289))	LDA

**INTERCONNECT BOARD**

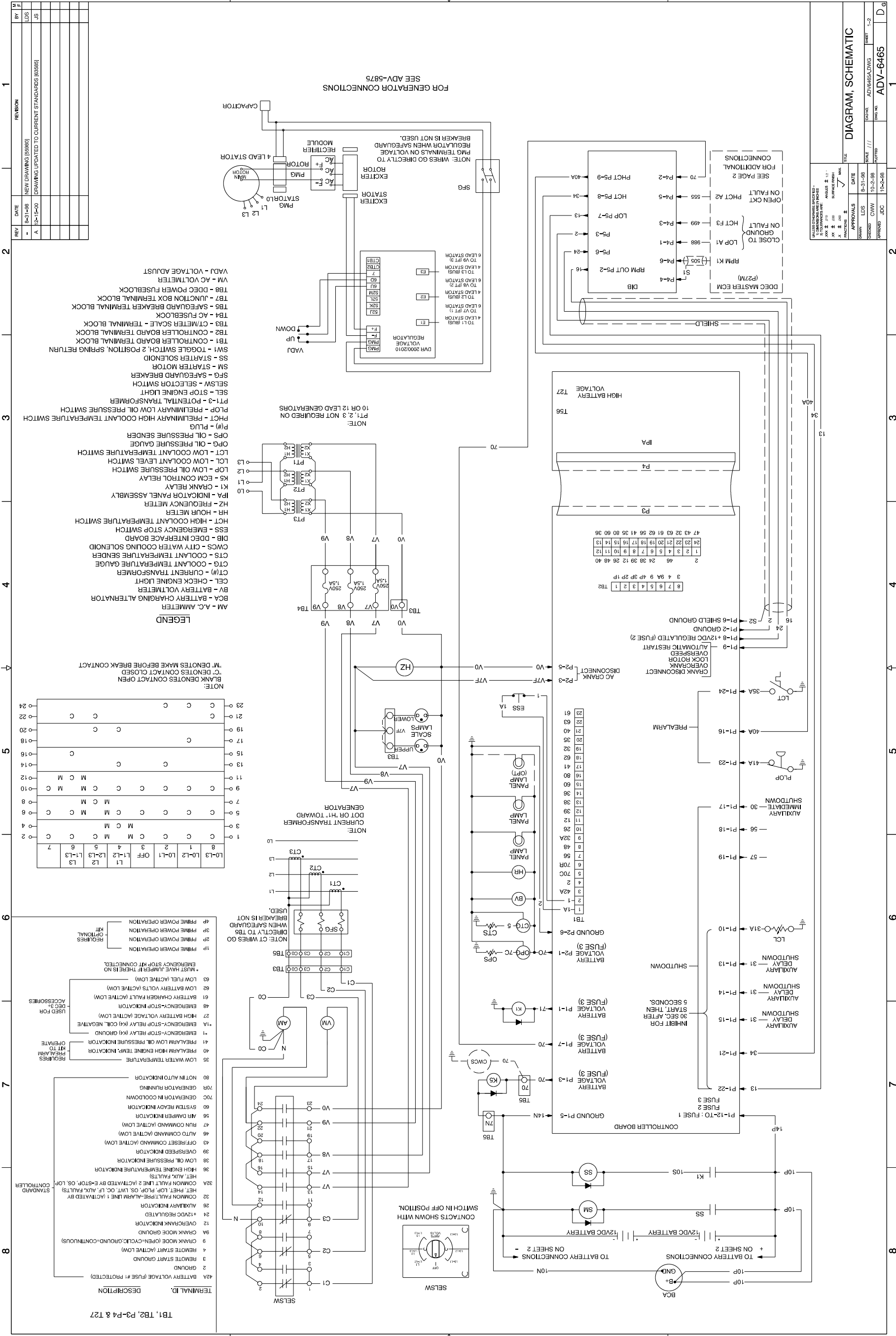
- OUTPUT CONNECTIONS**
- TB1-1 ENGINE GROUND
  - TB1-2 ENGINE GROUND
  - TB1-3 ENGINE GROUND
  - TB1-4 ENGINE GROUND
  - TB1-5 PANEL LAMP OUTPUT
  - TB1-6 RDO-10
  - TB1-7 RDO-9
  - TB1-8 RDO-7
  - TB1-9 RDO-5
  - TB1-10 N/A RELAY OUTPUT (60)
  - TB1-11 OVERCRANK RELAY OUTPUT (12)
  - TB1-12 LOW BATTERY VOLTAGE RELAY OUTPUT (62)
  - TB1-13 LOW ENGINE TEMPERATURE RELAY OUTPUT (35)
  - TB1-14 LOW OIL PRESSURE RELAY OUTPUT (38)
  - TB1-15 HIGH ENGINE TEMPERATURE RELAY OUTPUT (36)
  - TB1-16 LOW OIL PRESSURE WARNING RELAY OUTPUT (41)
  - TB1-17 HIGH ENGINE TEMPERATURE WARNING RELAY OUTPUT (40)
  - TB1-18 42A
  - TB1-19 42A
  - TB1-20 42A
  - TB1-21 DVR DOWN VOLTAGE ADJUSTMENT
  - TB1-22 DVR COMMON VOLTAGE ADJUSTMENT
  - TB1-23 DVR UP VOLTAGE ADJUSTMENT
  - TB1-24 RDO-8
  - TB1-25 RDO-6
  - TB1-26 RDO-4
  - TB1-27 RDO-3
  - TB1-28 RDO-2
  - TB1-29 RDO-1
  - TB1-30 SYSTEM READY RELAY OUTPUT (60)
  - TB1-31 E-STOP RELAY OUTPUT (48)
  - TB1-32 BATTERY CHARGER FAULT RELAY OUTPUT (61)
  - TB1-33 LOW FUEL RELAY OUTPUT (63)
  - TB1-34 OVERSPEED RELAY OUTPUT (69)

- AC INPUT CONNECTIONS**
- TB4-1 L0 (V0)
  - TB4-2 L1 (V7)
  - TB4-3 L2 (V8)
  - TB4-4 L3 (V9)
  - TB4-5 C3
  - TB4-6 C2
  - TB4-7 C1
  - TB4-8 C0
  - TB4-9 C0

- INPUT CONNECTIONS**
- TB2-1 REMOTE RESET \*
  - TB2-2 GROUND FAULT \*
  - TB2-3 NOT USED
  - TB2-4 NOT USED
  - TB2-5 BATTERY CHARGER FAULT \*
  - TB2-6 LOW FUEL \*
  - TB2-7 PRIME POWER MODE \*
  - TB2-8 ENGINE GROUND
  - TB2-9 ENGINE GROUND
  - TB2-10 ENGINE GROUND
  - TB3-1 E-STOP (1A)
  - TB3-2 E-STOP (1A)
  - TB3-3 REMOTE START (3)
  - TB3-4 REMOTE START (4)
  - TB3-5 AUXILIARY 1 \*
  - TB3-6 AUXILIARY 2 \*
  - TB3-7 AUXILIARY 3 \*
  - TB3-8 AUXILIARY 4 \*
  - TB3-9 OIL PRESSURE SENDING UNIT (7C)
  - TB3-10 WATER TEMPERATURE SENDING UNIT (5)

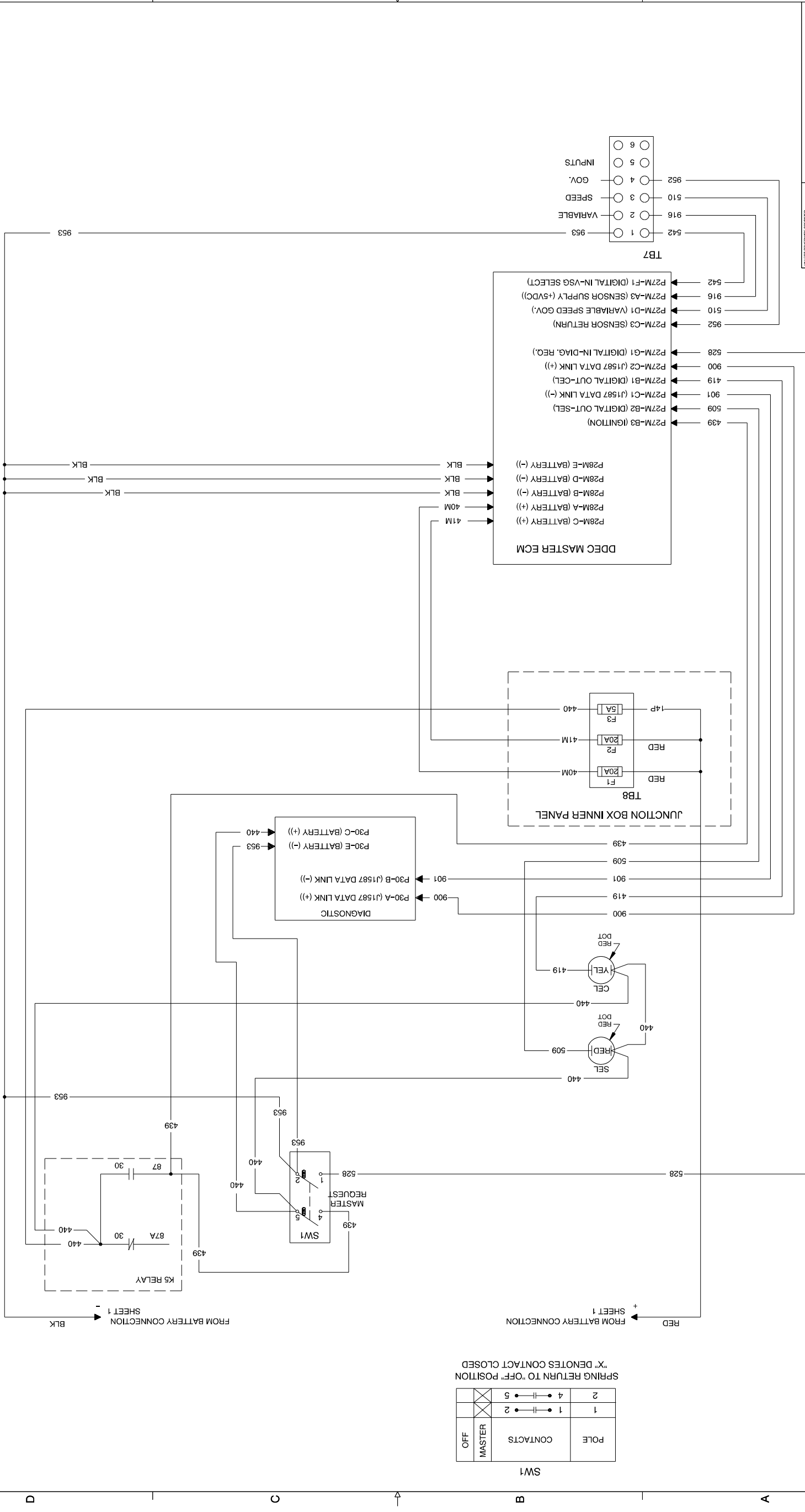
- P1 CONNECTIONS (ENGINE TO MICRO BOARD)**
- POSITIONS**
- 1 ENGINE CRANK (71)
  - 2 SPEED SENSOR GROUND (2)
  - 3 SAFEGUARD BREAKER (70)
  - 4 B.C. ALTERNATOR FLASHING
  - 5 STARTER MOTOR GROUND (14N)
  - 6 SPEED SENSOR SHIELD (S2)
  - 7 ENGINE RUN (70)
  - 8 V<sub>+</sub> SPEED SENSOR (24)
  - 9 SPEED SENSOR SIGNAL (16)
  - 10 LOW COOLANT LEVEL PTC (31A)
  - 11 NOT USED
  - 12 BATTERY + (14P)
  - 13 HIGH OIL TEMPERATURE SWITCH INPUT (31) \*
  - 14 LOW COOLANT LEVEL SWITCH INPUT (31) \*
  - 15 NOT USED
  - 16 HIGH ENGINE TEMPERATURE WARNING SWITCH INPUT (40A) \*
  - 17 NOT USED
  - 18 AIR DAMPER SWITCH INPUT (66) \*
  - 19 AIR DAMPER SWITCH OUTPUT (67)
  - 20 NOT USED
  - 21 HIGH ENGINE TEMPERATURE SWITCH INPUT (34) \*
  - 22 LOW OIL PRESSURE SWITCH INPUT (13) \*
  - 23 LOW OIL PRESSURE WARNING SWITCH INPUT (41A) \*
  - 24 LOW ENGINE TEMPERATURE SWITCH INPUT (35A) \*

- \* GROUND TO ACTIVATE



Decision-Maker™ 3+ Controller, Schematic Diagram, Sheet 1, ADV-6465A-A

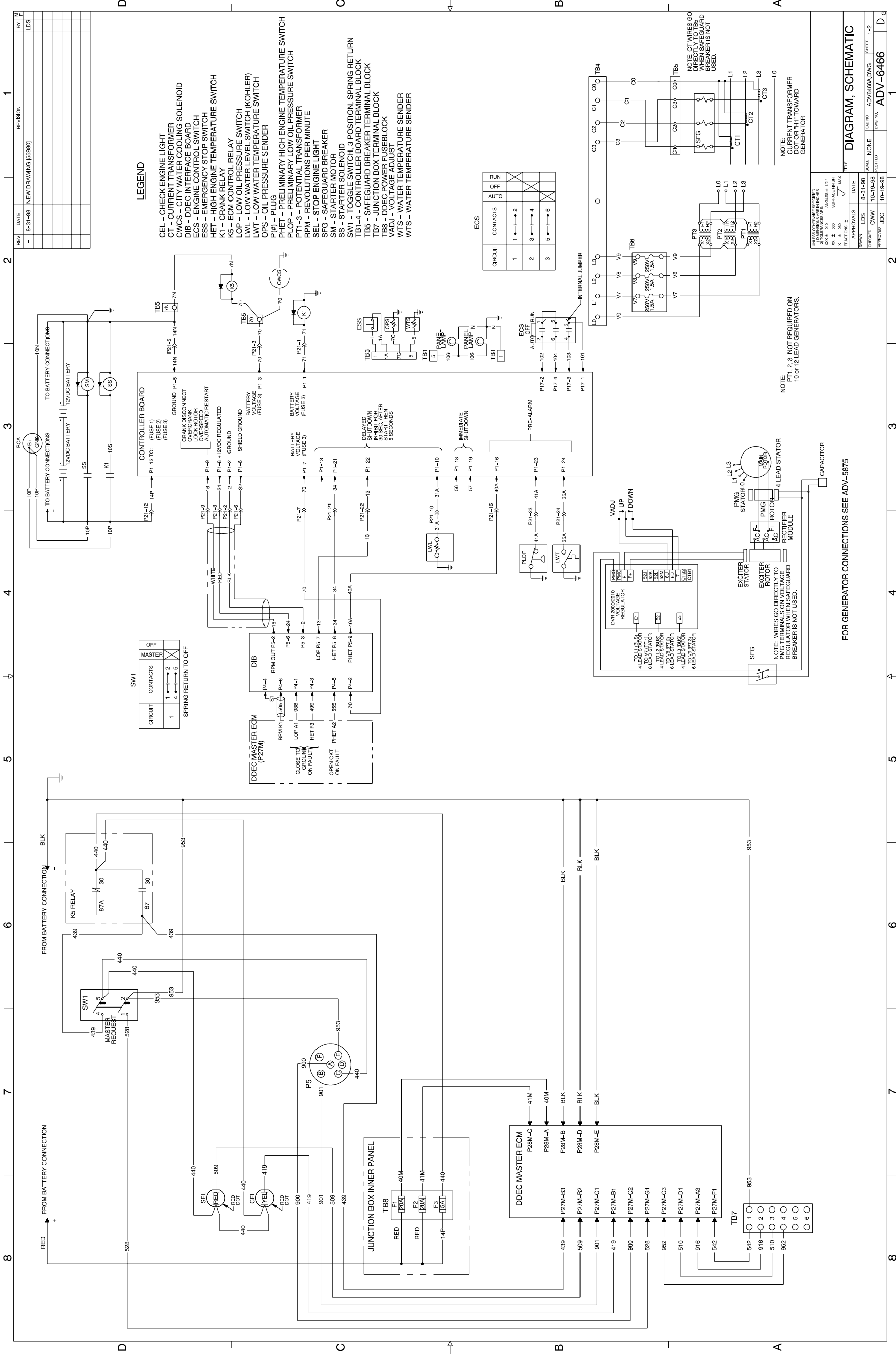
REV	DATE	BY	REVISION
-	04-01-08	JDS	NEW DRAWING (65980)
A	02-15-00	JDS	DRAWING UPDATED TO CURRENT STANDARDS (C-5) P30
		JDS	WAS P3 (6586)

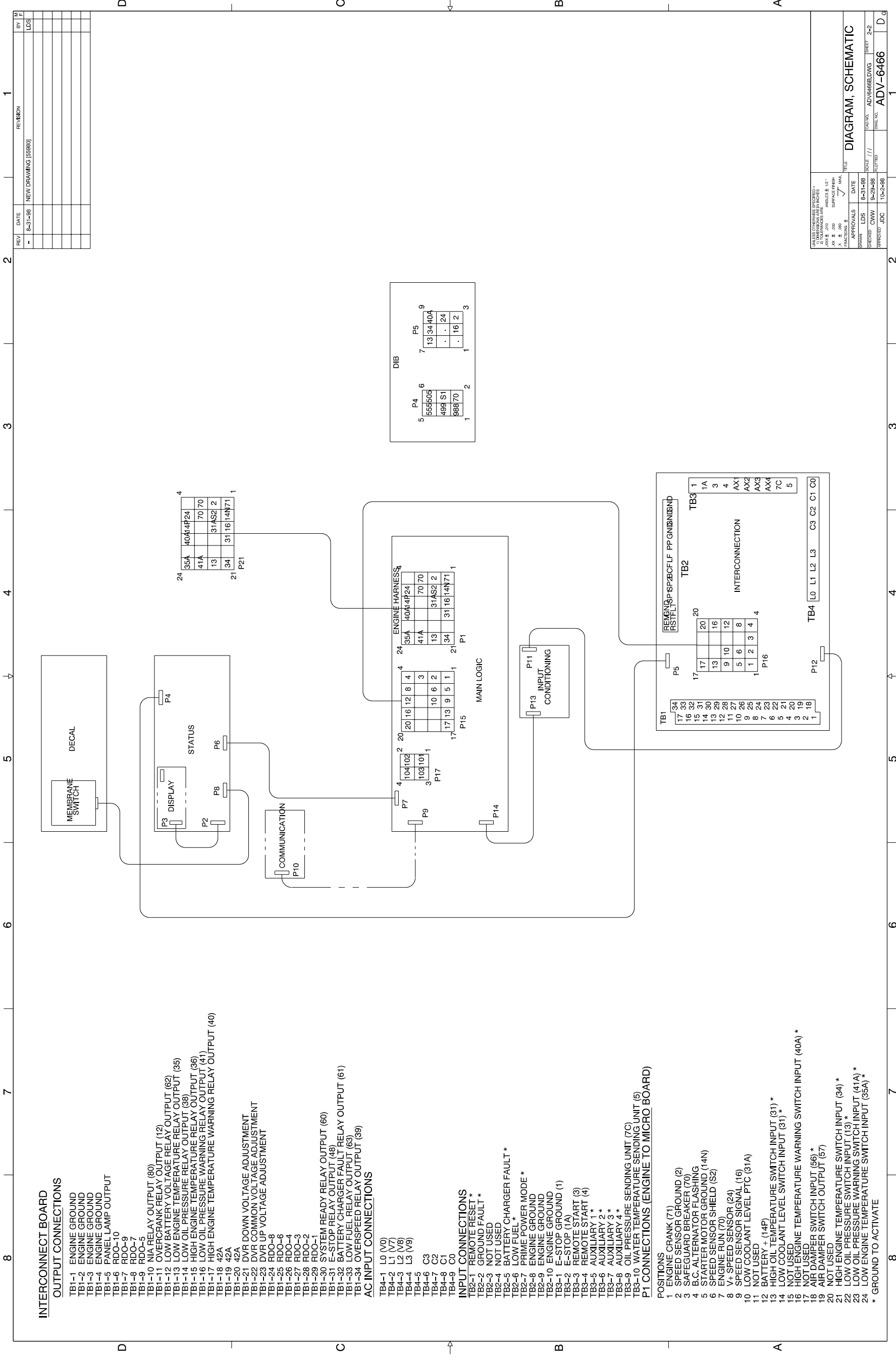


REV	DATE	BY	REVISION
-	04-01-08	JDS	NEW DRAWING (65980)
A	02-15-00	JDS	DRAWING UPDATED TO CURRENT STANDARDS (C-5) P30
		JDS	WAS P3 (6586)

REV	DATE	BY	REVISION
-	04-01-08	JDS	NEW DRAWING (65980)
A	02-15-00	JDS	DRAWING UPDATED TO CURRENT STANDARDS (C-5) P30
		JDS	WAS P3 (6586)

Decision-Maker™ 3+ Controller, Schematic Diagram, Sheet 2, ADV-6465B-A





**INTERCONNECT BOARD**

**OUTPUT CONNECTIONS**

- TB1-1 ENGINE GROUND
- TB1-2 ENGINE GROUND
- TB1-3 ENGINE GROUND
- TB1-4 ENGINE GROUND
- TB1-5 PANEL LAMP OUTPUT
- TB1-6 RDO-10
- TB1-7 RDO-9
- TB1-8 RDO-7
- TB1-9 RDO-5
- TB1-10 NIA RELAY OUTPUT (80)
- TB1-11 OVERCRANK RELAY OUTPUT (12)
- TB1-12 LOW BATTERY VOLTAGE RELAY OUTPUT (62)
- TB1-13 LOW ENGINE TEMPERATURE RELAY OUTPUT (35)
- TB1-14 LOW OIL PRESSURE RELAY OUTPUT (38)
- TB1-15 HIGH ENGINE TEMPERATURE RELAY OUTPUT (36)
- TB1-16 LOW OIL PRESSURE WARNING RELAY OUTPUT (41)
- TB1-17 HIGH ENGINE TEMPERATURE WARNING RELAY OUTPUT (40)
- TB1-18 42A
- TB1-19 42A
- TB1-20 42A
- TB1-21 DVR DOWN VOLTAGE ADJUSTMENT
- TB1-22 DVR COMMON VOLTAGE ADJUSTMENT
- TB1-23 DVR UP VOLTAGE ADJUSTMENT
- TB1-24 RDO-8
- TB1-25 RDO-6
- TB1-26 RDO-4
- TB1-27 RDO-3
- TB1-28 RDO-2
- TB1-29 RDO-1
- TB1-30 SYSTEM READY RELAY OUTPUT (60)
- TB1-31 E-STOP RELAY OUTPUT (48)
- TB1-32 BATTERY CHARGER FAULT RELAY OUTPUT (61)
- TB1-33 LOW FUEL RELAY OUTPUT (63)
- TB1-34 OVERSPEED RELAY OUTPUT (39)

**AC INPUT CONNECTIONS**

- TB4-1 L0 (V0)
- TB4-2 L1 (V7)
- TB4-3 L2 (V8)
- TB4-4 L3 (V9)
- TB4-5 C3
- TB4-6 C2
- TB4-7 C1
- TB4-8 C0
- TB4-9 C0

**INPUT CONNECTIONS**

- TB2-1 REMOTE RESET \*
- TB2-2 GROUND FAULT \*
- TB2-3 NOT USED
- TB2-4 NOT USED
- TB2-5 BATTERY CHARGER FAULT \*
- TB2-6 LOW FUEL \*
- TB2-7 PRIME POWER MODE \*
- TB2-8 ENGINE GROUND
- TB2-9 ENGINE GROUND
- TB2-10 ENGINE GROUND
- TB3-1 E-STOP GROUND (1)
- TB3-2 E-STOP (1A)
- TB3-3 REMOTE START (3)
- TB3-4 REMOTE START (4)
- TB3-5 AUXILIARY 1 \*
- TB3-6 AUXILIARY 2 \*
- TB3-7 AUXILIARY 3 \*
- TB3-8 AUXILIARY 4 \*
- TB3-9 OIL PRESSURE SENDING UNIT (7C)
- TB3-10 WATER TEMPERATURE SENDING UNIT (5)

**P1 CONNECTIONS (ENGINE TO MICRO BOARD)**

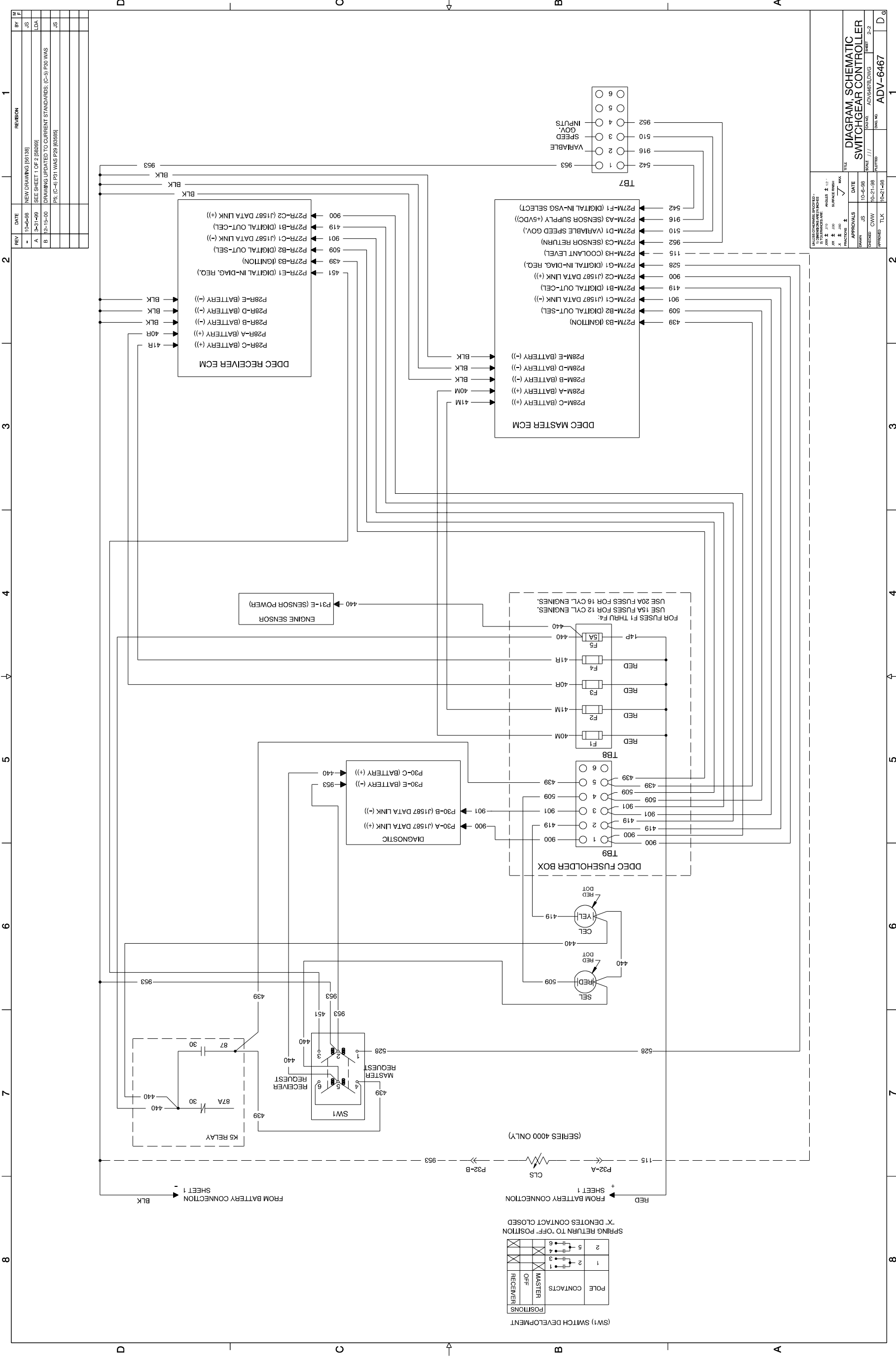
- 1 ENGINE CRANK (71)
- 2 SPEED SENSOR GROUND (2)
- 3 SAFEGUARD BREAKER (70)
- 4 B.C. ALTERNATOR FLASHING
- 5 STARTER MOTOR GROUND (14N)
- 6 SPEED SENSOR SHIELD (S2)
- 7 ENGINE RUN (70)
- 8 V+ SPEED SENSOR (24)
- 9 SPEED SENSOR SIGNAL (16)
- 10 LOW COOLANT LEVEL PTC (31A)
- 11 NOT USED
- 12 BATTERY + (14P)
- 13 HIGH OIL TEMPERATURE SWITCH INPUT (31) \*
- 14 LOW COOLANT LEVEL SWITCH INPUT (31) \*
- 15 NOT USED
- 16 HIGH ENGINE TEMPERATURE WARNING SWITCH INPUT (40A) \*
- 17 NOT USED
- 18 AIR DAMPER SWITCH INPUT (56) \*
- 19 AIR DAMPER SWITCH OUTPUT (57)
- 20 NOT USED
- 21 HIGH ENGINE TEMPERATURE SWITCH INPUT (34) \*
- 22 LOW OIL PRESSURE SWITCH INPUT (13) \*
- 23 LOW OIL PRESSURE WARNING SWITCH INPUT (41A) \*
- 24 LOW ENGINE TEMPERATURE SWITCH INPUT (35A) \*

\* GROUND TO ACTIVATE

REV	DATE	DESCRIPTION	BY	CHK
1	8-31-88	NEW DRAWING (55960)	LDS	

APPROVALS	DATE	TITLE
DESIGNED: CHW	8-31-88	DIAGRAM, SCHEMATIC
CHECKED: JDC	9-29-88	
APPROVED: JDC	10-2-88	



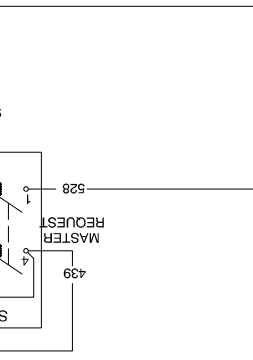
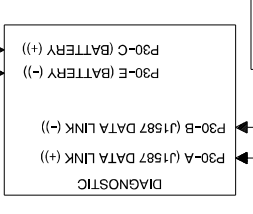
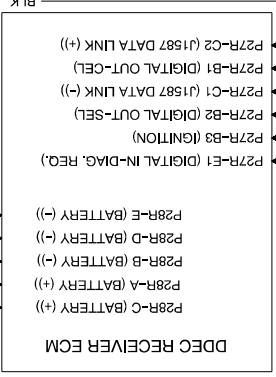
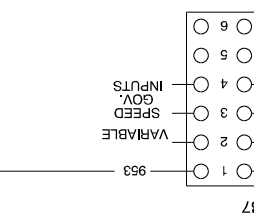
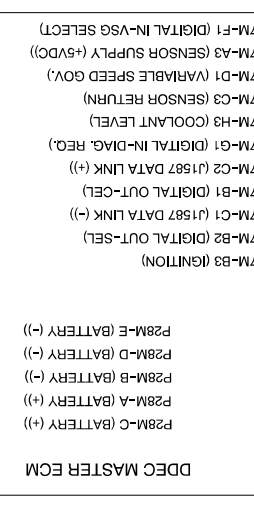
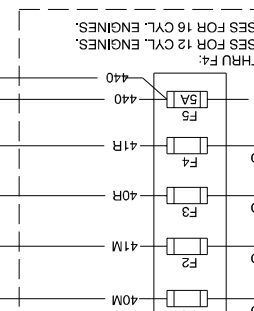
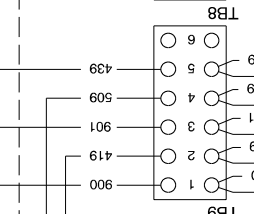
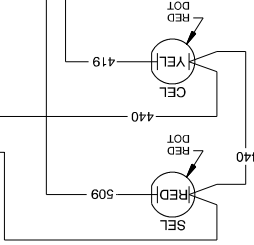


(SW1) SWITCH DEVELOPMENT

POSITIONS	MASTER	RECEIVER
1	1	2
2	3	4
3	5	6

X DENOTES RETURN TO OFF POSITION  
 SPRING RETURN TO OFF POSITION

FROM BATTERY CONNECTION  
 RED +  
 P22-A  
 P22-B  
 953  
 CLS  
 (SERIES 4000 ONLY)



DATE	10-04-08	BY	US
REV	3-31-09	REV	US
NEW DRAWING (661138)			
SEE SHEET 1 OF 2 (66268)			
DRAWING UPDATED TO CURRENT STANDARDS: (C-3) P30 WAS			
PS: (C-4) P31 WAS P29 (6558)			

DATE	10-04-08	DATE	10-04-08
APPROVALS	US	APPROVALS	US
DRAWN	US	DRAWN	US
DESIGNED	US	DESIGNED	US
PROJECT	ADV-6467B/DWG	PROJECT	ADV-6467B/DWG
FIGURE	111	FIGURE	111
SHEET	2-2	SHEET	2-2
FIGURE NO.	ADV-6467	FIGURE NO.	ADV-6467
DWG. NO.	10-04-08	DWG. NO.	10-04-08

DATE	10-04-08	DATE	10-04-08
APPROVALS	US	APPROVALS	US
DRAWN	US	DRAWN	US
DESIGNED	US	DESIGNED	US
PROJECT	ADV-6467B/DWG	PROJECT	ADV-6467B/DWG
FIGURE	111	FIGURE	111
SHEET	2-2	SHEET	2-2
FIGURE NO.	ADV-6467	FIGURE NO.	ADV-6467
DWG. NO.	10-04-08	DWG. NO.	10-04-08

DATE	10-04-08	DATE	10-04-08
APPROVALS	US	APPROVALS	US
DRAWN	US	DRAWN	US
DESIGNED	US	DESIGNED	US
PROJECT	ADV-6467B/DWG	PROJECT	ADV-6467B/DWG
FIGURE	111	FIGURE	111
SHEET	2-2	SHEET	2-2
FIGURE NO.	ADV-6467	FIGURE NO.	ADV-6467
DWG. NO.	10-04-08	DWG. NO.	10-04-08

DATE	10-04-08	DATE	10-04-08
APPROVALS	US	APPROVALS	US
DRAWN	US	DRAWN	US
DESIGNED	US	DESIGNED	US
PROJECT	ADV-6467B/DWG	PROJECT	ADV-6467B/DWG
FIGURE	111	FIGURE	111
SHEET	2-2	SHEET	2-2
FIGURE NO.	ADV-6467	FIGURE NO.	ADV-6467
DWG. NO.	10-04-08	DWG. NO.	10-04-08

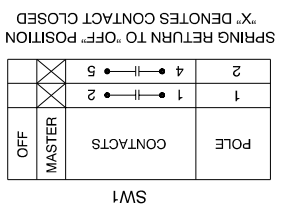
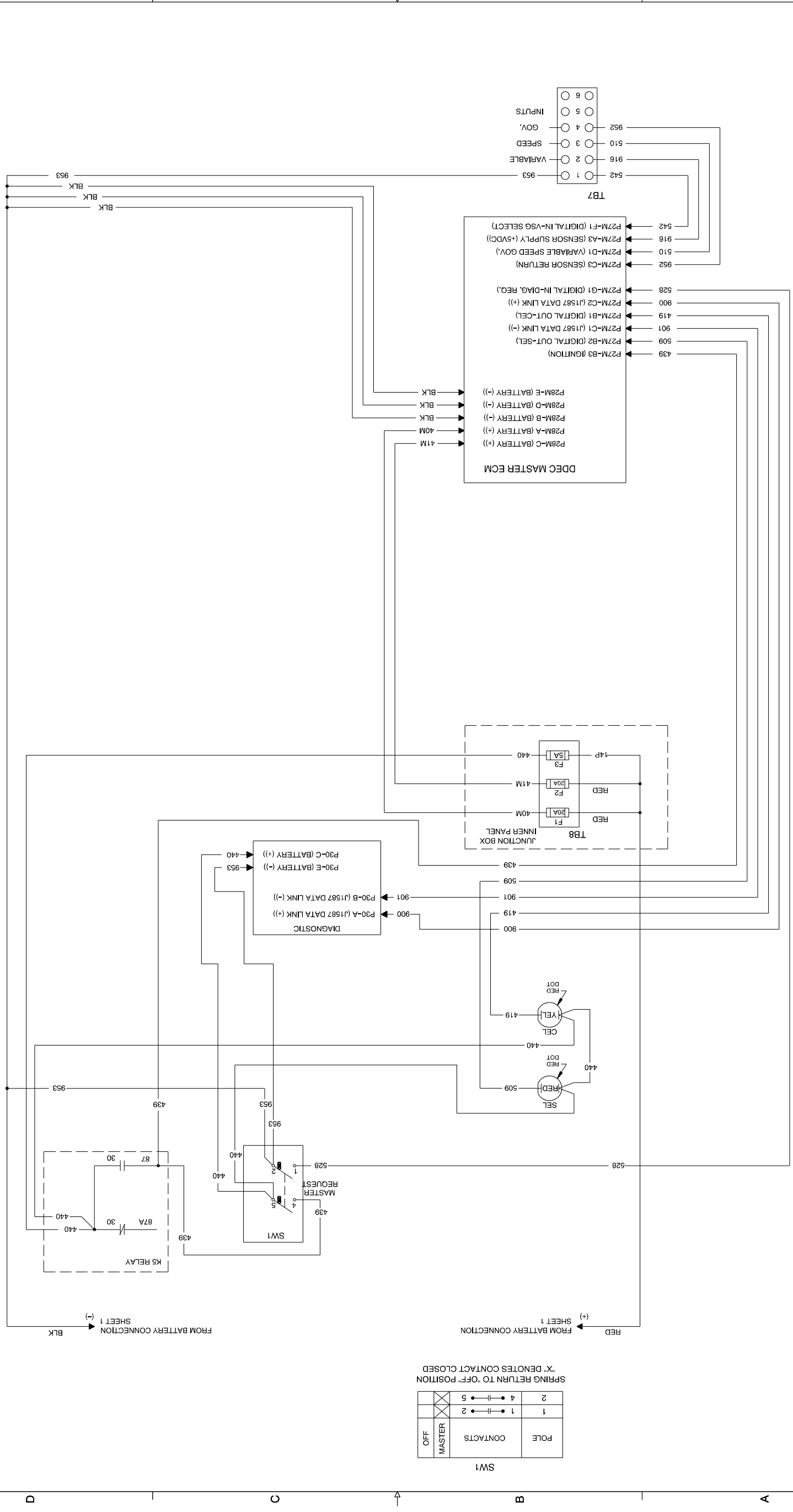
DATE	10-04-08	DATE	10-04-08
APPROVALS	US	APPROVALS	US
DRAWN	US	DRAWN	US
DESIGNED	US	DESIGNED	US
PROJECT	ADV-6467B/DWG	PROJECT	ADV-6467B/DWG
FIGURE	111	FIGURE	111
SHEET	2-2	SHEET	2-2
FIGURE NO.	ADV-6467	FIGURE NO.	ADV-6467
DWG. NO.	10-04-08	DWG. NO.	10-04-08

DATE	10-04-08	DATE	10-04-08
APPROVALS	US	APPROVALS	US
DRAWN	US	DRAWN	US
DESIGNED	US	DESIGNED	US
PROJECT	ADV-6467B/DWG	PROJECT	ADV-6467B/DWG
FIGURE	111	FIGURE	111
SHEET	2-2	SHEET	2-2
FIGURE NO.	ADV-6467	FIGURE NO.	ADV-6467
DWG. NO.	10-04-08	DWG. NO.	10-04-08

Engine Gauge Box for Paralleling Switchgear, Schematic Diagram, Sheet 2, ADV-6467B-B



REV	DATE	DESCRIPTION	BY	CHK
-	12-17-08	NEW DRAWING (B7139)	JIS	
A	12-15-00	DRAWING UPDATED TO CURRENT STANDARDS (C-5) P30 WAS P-163865	JIS	

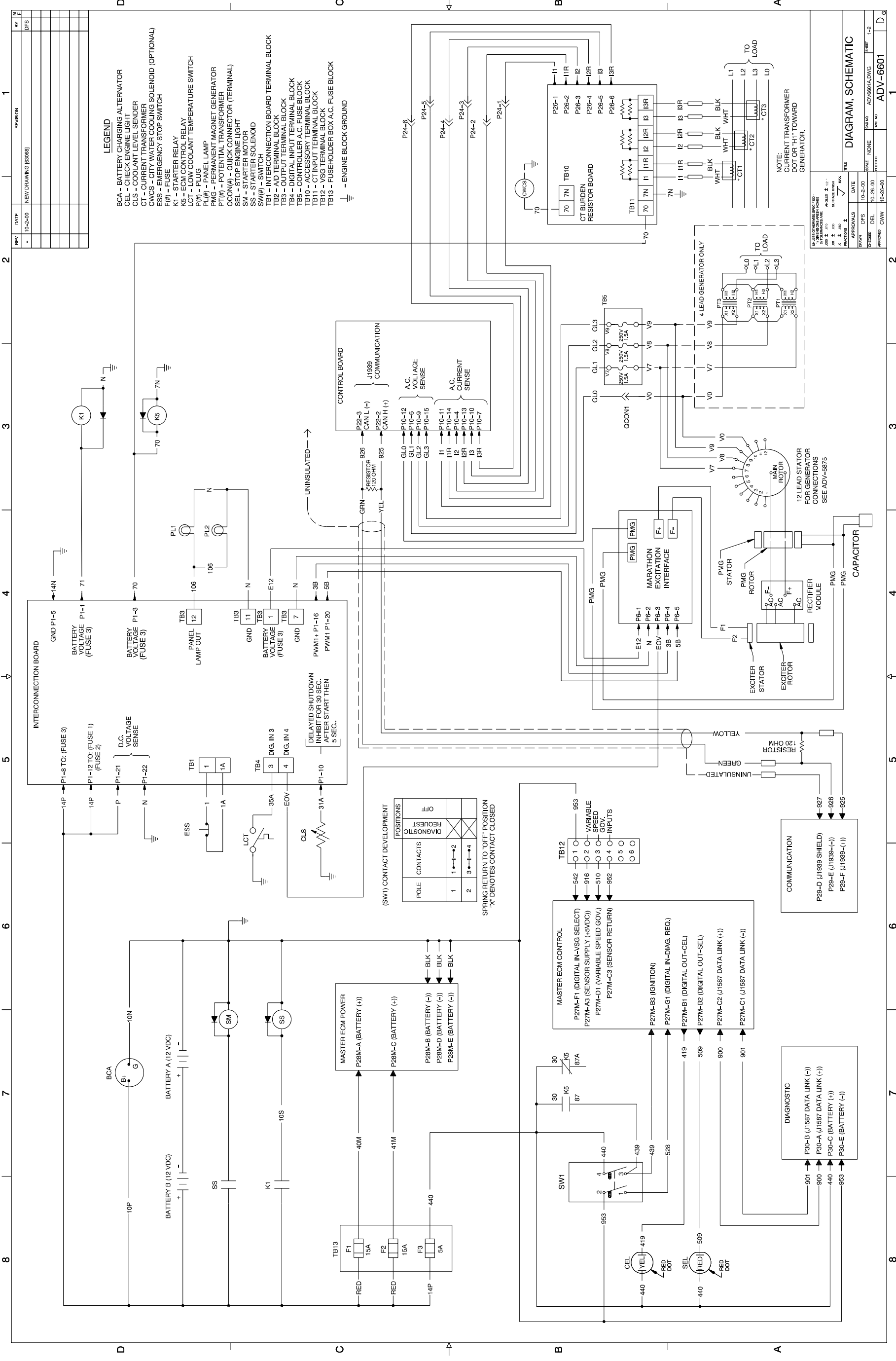


REV	DATE	DESCRIPTION	BY	CHK
-	12-17-08	NEW DRAWING (B7139)	JIS	
A	12-15-00	DRAWING UPDATED TO CURRENT STANDARDS (C-5) P30 WAS P-163865	JIS	

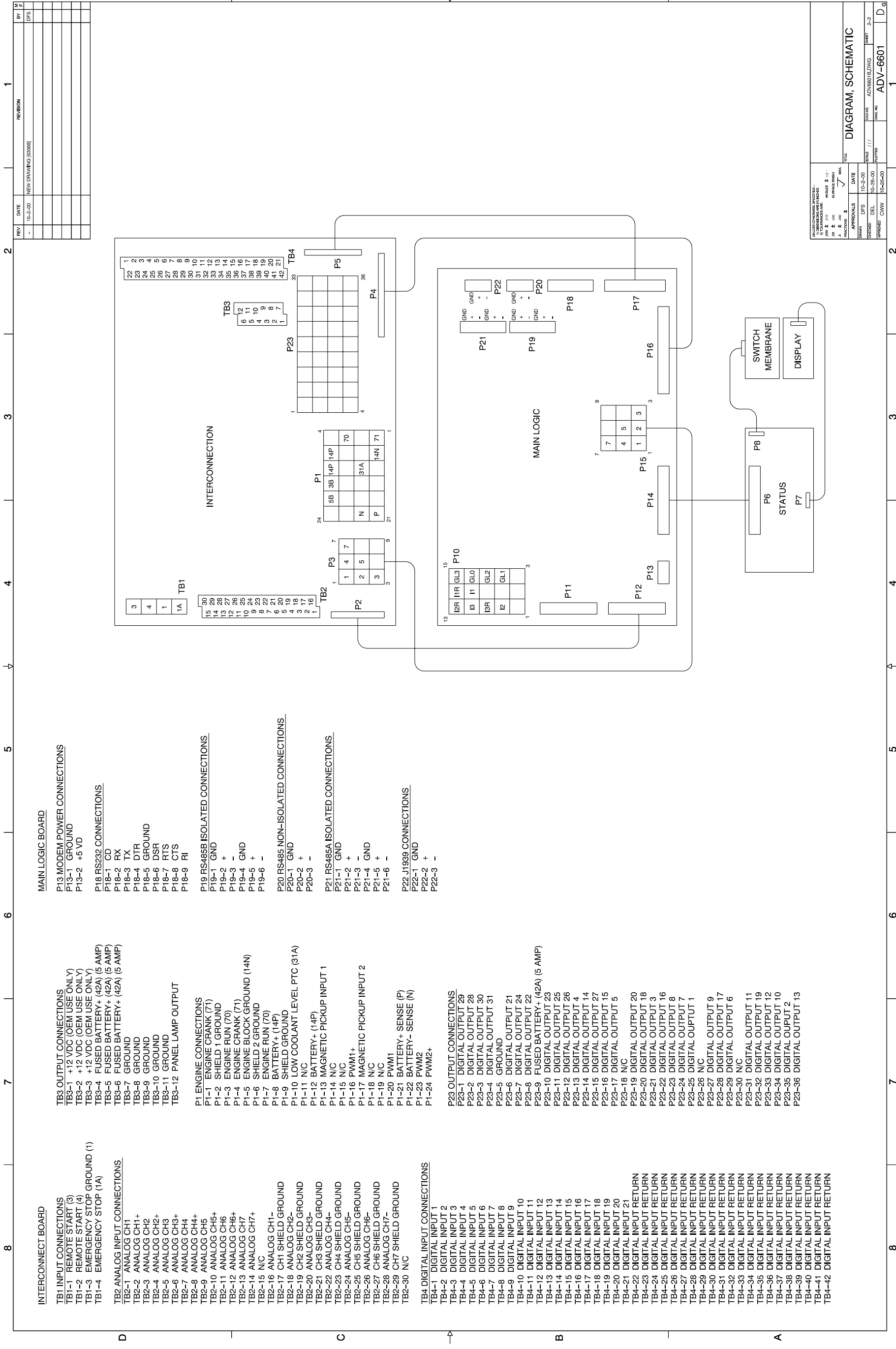
REV	DATE	DESCRIPTION	BY	CHK
-	12-17-08	NEW DRAWING (B7139)	JIS	
A	12-15-00	DRAWING UPDATED TO CURRENT STANDARDS (C-5) P30 WAS P-163865	JIS	

REV	DATE	DESCRIPTION	BY	CHK
-	12-17-08	NEW DRAWING (B7139)	JIS	
A	12-15-00	DRAWING UPDATED TO CURRENT STANDARDS (C-5) P30 WAS P-163865	JIS	

Engine Gauge Box for Paralleling Switchgear, Schematic Diagram, Sheet 2, ADV-6492B-A



Decision-Maker™ 550 Controller, Schematic Diagram, Sheet 1, ADV-6601A-



REV	DATE	REVISION	BY
-	10-2-00	NEW DRAWING (R0068)	DFS

REV	DATE	REVISION	BY
-	10-2-00	NEW DRAWING (R0068)	DFS

REV	DATE	REVISION	BY
-	10-2-00	NEW DRAWING (R0068)	DFS

REV	DATE	REVISION	BY
-	10-2-00	NEW DRAWING (R0068)	DFS

REV	DATE	REVISION	BY
-	10-2-00	NEW DRAWING (R0068)	DFS

**INTERCONNECT BOARD**

**TB1 INPUT CONNECTIONS**  
 TB1-1 REMOTE START (3)  
 TB1-2 REMOTE START (4)  
 TB1-3 EMERGENCY STOP GROUND (1)  
 TB1-4 EMERGENCY STOP (1A)

**TB2 ANALOG INPUT CONNECTIONS**  
 TB2-1 ANALOG CH1  
 TB2-2 ANALOG CH1+  
 TB2-3 ANALOG CH2  
 TB2-4 ANALOG CH2+  
 TB2-5 ANALOG CH3  
 TB2-6 ANALOG CH3+  
 TB2-7 ANALOG CH4  
 TB2-8 ANALOG CH4+  
 TB2-9 ANALOG CH5  
 TB2-10 ANALOG CH5+  
 TB2-11 ANALOG CH6  
 TB2-12 ANALOG CH6+  
 TB2-13 ANALOG CH7  
 TB2-14 ANALOG CH7+  
 TB2-15 N/C  
 TB2-16 ANALOG CH1-  
 TB2-17 CH1 SHIELD GROUND  
 TB2-18 ANALOG CH2-  
 TB2-19 CH2 SHIELD GROUND  
 TB2-20 ANALOG CH3-  
 TB2-21 CH3 SHIELD GROUND  
 TB2-22 ANALOG CH4-  
 TB2-23 CH4 SHIELD GROUND  
 TB2-24 ANALOG CH5-  
 TB2-25 CH5 SHIELD GROUND  
 TB2-26 ANALOG CH6-  
 TB2-27 CH6 SHIELD GROUND  
 TB2-28 ANALOG CH7-  
 TB2-29 CH7 SHIELD GROUND  
 TB2-30 N/C

**TB4 DIGITAL INPUT CONNECTIONS**  
 TB4-1 DIGITAL INPUT 1  
 TB4-2 DIGITAL INPUT 2  
 TB4-3 DIGITAL INPUT 3  
 TB4-4 DIGITAL INPUT 4  
 TB4-5 DIGITAL INPUT 5  
 TB4-6 DIGITAL INPUT 6  
 TB4-7 DIGITAL INPUT 7  
 TB4-8 DIGITAL INPUT 8  
 TB4-9 DIGITAL INPUT 9  
 TB4-10 DIGITAL INPUT 10  
 TB4-11 DIGITAL INPUT 11  
 TB4-12 DIGITAL INPUT 12  
 TB4-13 DIGITAL INPUT 13  
 TB4-14 DIGITAL INPUT 14  
 TB4-15 DIGITAL INPUT 15  
 TB4-16 DIGITAL INPUT 16  
 TB4-17 DIGITAL INPUT 17  
 TB4-18 DIGITAL INPUT 18  
 TB4-19 DIGITAL INPUT 19  
 TB4-20 DIGITAL INPUT 20  
 TB4-21 DIGITAL INPUT 21  
 TB4-22 DIGITAL INPUT RETURN  
 TB4-23 DIGITAL INPUT RETURN  
 TB4-24 DIGITAL INPUT RETURN  
 TB4-25 DIGITAL INPUT RETURN  
 TB4-26 DIGITAL INPUT RETURN  
 TB4-27 DIGITAL INPUT RETURN  
 TB4-28 DIGITAL INPUT RETURN  
 TB4-29 DIGITAL INPUT RETURN  
 TB4-30 DIGITAL INPUT RETURN  
 TB4-31 DIGITAL INPUT RETURN  
 TB4-32 DIGITAL INPUT RETURN  
 TB4-33 DIGITAL INPUT RETURN  
 TB4-34 DIGITAL INPUT RETURN  
 TB4-35 DIGITAL INPUT RETURN  
 TB4-36 DIGITAL INPUT RETURN  
 TB4-37 DIGITAL INPUT RETURN  
 TB4-38 DIGITAL INPUT RETURN  
 TB4-39 DIGITAL INPUT RETURN  
 TB4-40 DIGITAL INPUT RETURN  
 TB4-41 DIGITAL INPUT RETURN  
 TB4-42 DIGITAL INPUT RETURN

**MAIN LOGIC BOARD**

**P13 MODEM POWER CONNECTIONS**  
 P13-1 GROUND  
 P13-2 +5VDC

**P18 RS232 CONNECTIONS**  
 P18-1 CD  
 P18-2 RX  
 P18-3 TX  
 P18-4 DTR  
 P18-5 GROUND  
 P18-6 DSR  
 P18-7 RTS  
 P18-8 CTS  
 P18-9 RI

**P19 RS485B ISOLATED CONNECTIONS**  
 P19-1 GND  
 P19-2 +  
 P19-3 -  
 P19-4 GND  
 P19-5 +  
 P19-6 -

**P20 RS485A NON-ISOLATED CONNECTIONS**  
 P20-1 GND  
 P20-2 +  
 P20-3 -

**P21 RS485A ISOLATED CONNECTIONS**  
 P21-1 GND  
 P21-2 +  
 P21-3 -  
 P21-4 GND  
 P21-5 +  
 P21-6 -

**P22 J1939 CONNECTIONS**  
 P22-1 GND  
 P22-2 +  
 P22-3 -

**TB3 OUTPUT CONNECTIONS**  
 TB3-1 +12 VDC (OEM USE ONLY)  
 TB3-2 +12 VDC (OEM USE ONLY)  
 TB3-3 +12 VDC (OEM USE ONLY)  
 TB3-4 FUSED BATTERY+ (42A) (5 AMP)  
 TB3-5 FUSED BATTERY+ (42A) (5 AMP)  
 TB3-6 FUSED BATTERY+ (42A) (5 AMP)  
 TB3-7 GROUND  
 TB3-8 GROUND  
 TB3-9 GROUND  
 TB3-10 GROUND  
 TB3-11 GROUND  
 TB3-12 PANEL LAMP OUTPUT

**P1 ENGINE CONNECTIONS**  
 P1-1 ENGINE CRANK (71)  
 P1-2 SHIELD 1 GROUND  
 P1-3 ENGINE RUN (70)  
 P1-4 ENGINE CRANK (71)  
 P1-5 ENGINE BLOCK GROUND (14N)  
 P1-6 SHIELD 2 GROUND  
 P1-7 ENGINE RUN (70)  
 P1-8 BATTERY+ (14P)  
 P1-9 SHIELD GROUND  
 P1-10 LOW COOLANT LEVEL PTC (31A)  
 P1-11 N/C  
 P1-12 BATTERY+ (14P)  
 P1-13 MAGNETIC PICKUP INPUT 1  
 P1-14 N/C  
 P1-15 N/C  
 P1-16 PWM1+  
 P1-17 MAGNETIC PICKUP INPUT 2  
 P1-18 N/C  
 P1-19 N/C  
 P1-20 PWM1  
 P1-21 BATTERY+ SENSE (P)  
 P1-22 BATTERY- SENSE (N)  
 P1-23 PWM2  
 P1-24 PWM2+

**P23 OUTPUT CONNECTIONS**  
 P23-1 DIGITAL OUTPUT 29  
 P23-2 DIGITAL OUTPUT 28  
 P23-3 DIGITAL OUTPUT 30  
 P23-4 DIGITAL OUTPUT 31  
 P23-5 GROUND  
 P23-6 DIGITAL OUTPUT 21  
 P23-7 DIGITAL OUTPUT 24  
 P23-8 DIGITAL OUTPUT 22  
 P23-9 FUSED BATTERY+ (42A) (5 AMP)  
 P23-10 DIGITAL OUTPUT 23  
 P23-11 DIGITAL OUTPUT 25  
 P23-12 DIGITAL OUTPUT 26  
 P23-13 DIGITAL OUTPUT 4  
 P23-14 DIGITAL OUTPUT 14  
 P23-15 DIGITAL OUTPUT 27  
 P23-16 DIGITAL OUTPUT 15  
 P23-17 DIGITAL OUTPUT 5  
 P23-18 N/C  
 P23-19 DIGITAL OUTPUT 20  
 P23-20 DIGITAL OUTPUT 18  
 P23-21 DIGITAL OUTPUT 3  
 P23-22 DIGITAL OUTPUT 16  
 P23-23 DIGITAL OUTPUT 8  
 P23-24 DIGITAL OUTPUT 7  
 P23-25 DIGITAL OUTPUT 1  
 P23-26 N/C  
 P23-27 DIGITAL OUTPUT 9  
 P23-28 DIGITAL OUTPUT 17  
 P23-29 DIGITAL OUTPUT 6  
 P23-30 N/C  
 P23-31 DIGITAL OUTPUT 11  
 P23-32 DIGITAL OUTPUT 19  
 P23-33 DIGITAL OUTPUT 12  
 P23-34 DIGITAL OUTPUT 10  
 P23-35 DIGITAL OUTPUT 2  
 P23-36 DIGITAL OUTPUT 13

**INTERCONNECT**

**TB1**  
 3  
 4  
 1  
 1A

**TB2**  
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 2  
 1

**TB3**  
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 3  
 2  
 1

**TB4**  
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 3  
 2  
 1

**P1**  
 5B 3B 14P 14P  
 N P  
 14N 71

**P2**  
 1 4 7  
 2 5  
 3

**P3**  
 1 4 7  
 2 5  
 3

**P4**  
 36

**P5**  
 1 2 3 4

**P6**  
 1 2 3

**P7**  
 1 2 3

**P8**  
 1 2 3

**P9**  
 1 2 3

**P10**  
 12R 11R GL3  
 I3 I1 GL0  
 I3R GL2  
 I2 GL1

**P11**  
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**P12**  
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**P35**  
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**P36**  
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**MAIN LOGIC**

**P21**  
 GND  
 +  
 -  
 GND  
 +  
 -

**P19**  
 GND  
 +  
 -  
 GND  
 +  
 -

**P20**  
 GND  
 +  
 -  
 GND  
 +  
 -

**P18**  
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**P17**  
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**P16**  
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**P4**  
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**P3**  
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**P2**  
 1 2 3

**P1**  
 1 2 3

**SWITCH MEMBRANE**

**DISPLAY**

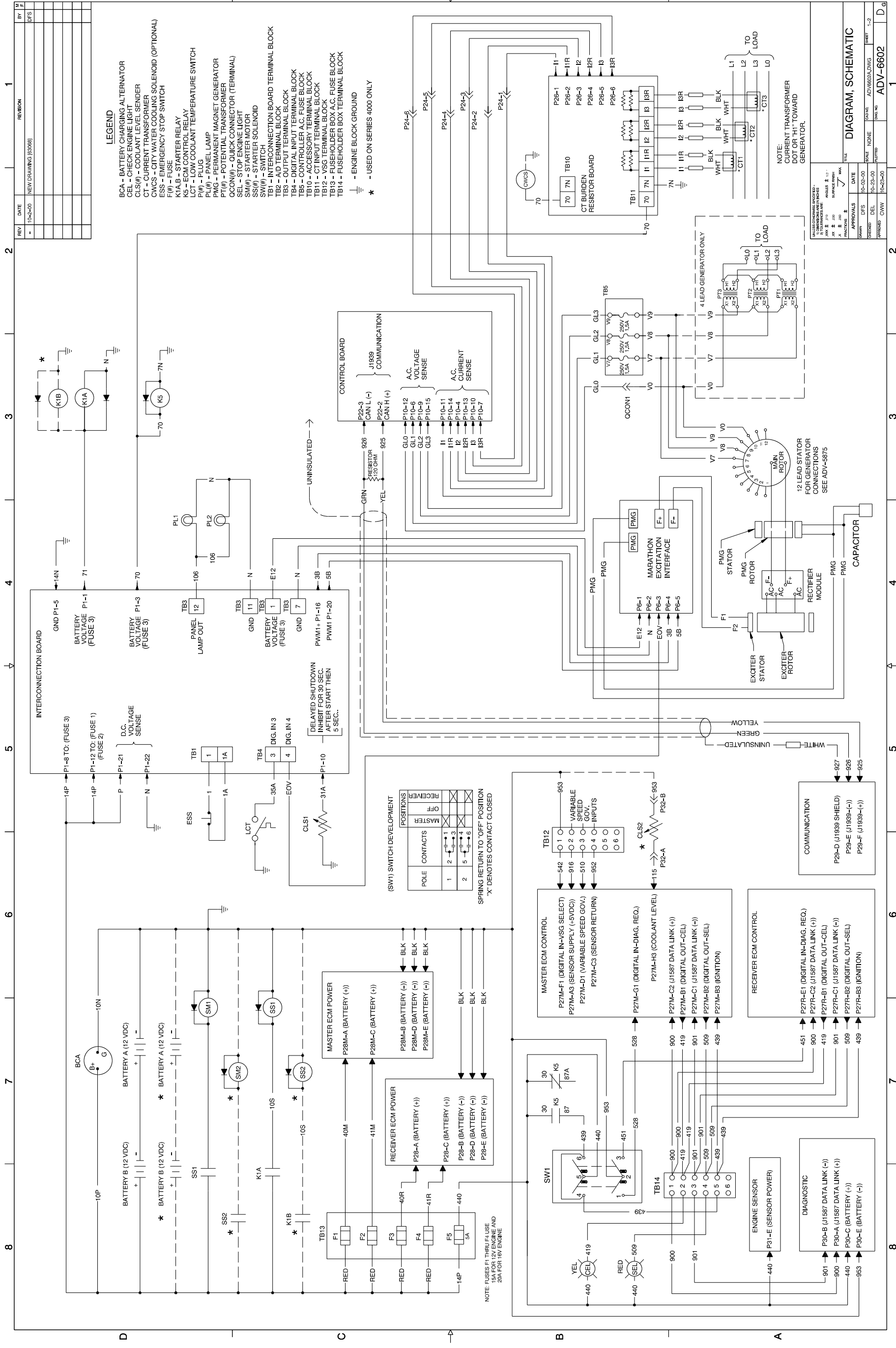
**STATUS**  
 P6  
 P7

REV	DATE	REVISION	BY
-	10-2-00	NEW DRAWING (R0068)	DFS

REV	DATE	REVISION	BY
-	10-2-00	NEW DRAWING (R0068)	DFS

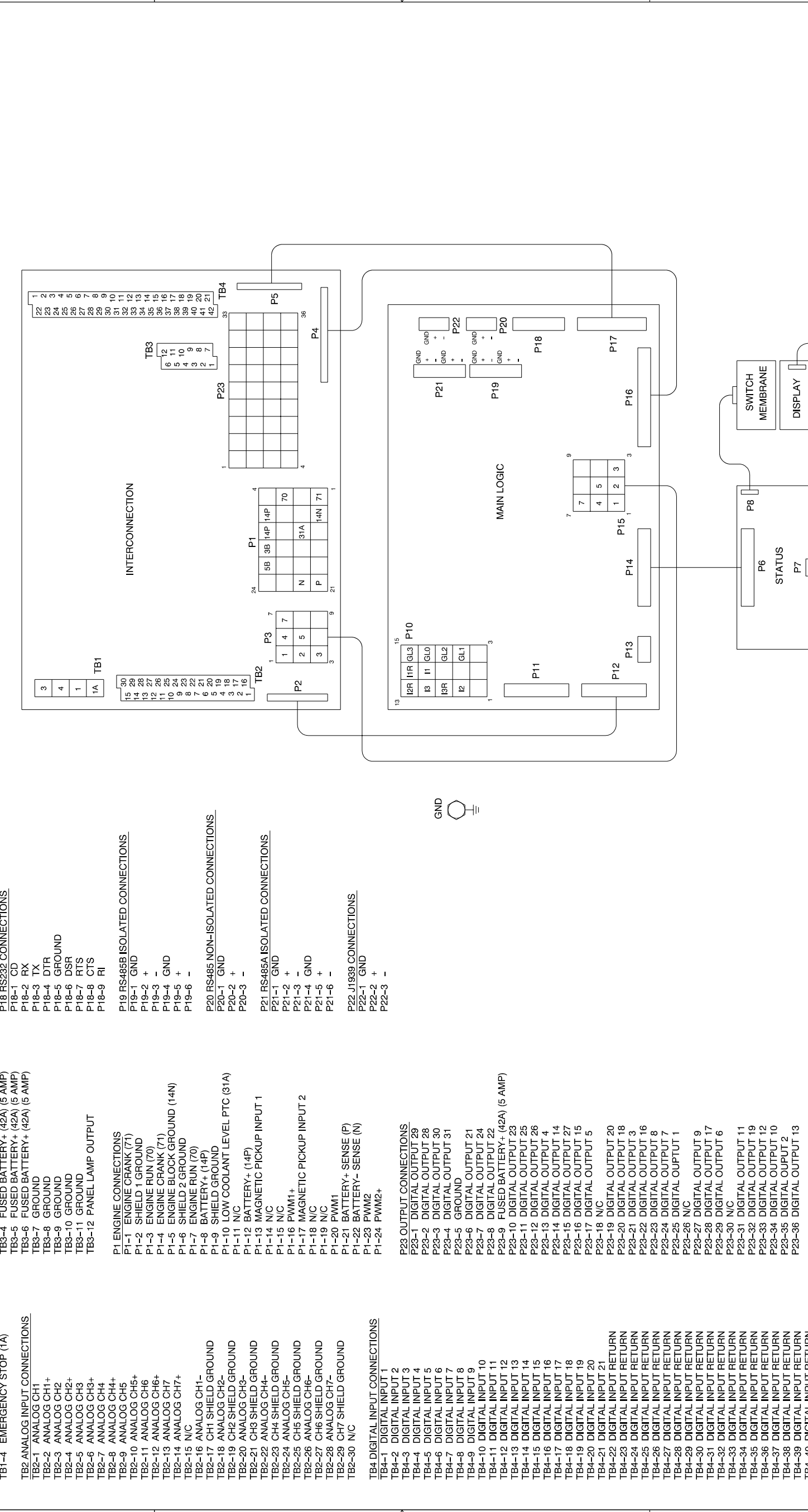
REV	DATE	REVISION	BY
-	10-2-00	NEW DRAWING (R0068)	DFS

REV	DATE	REVISION	BY
-	10-2-00	NEW DRAWING (R0068)	DFS



Decision-Maker™ 550 Controller, Schematic Diagram, Sheet 1, ADV-6602A-

REV	DATE	REVISION	BY
-	10-2-00	NEW DRAWING (R0068)	DFS



REV	DATE	REVISION	BY
-	10-2-00	NEW DRAWING (R0068)	DFS

APPROVALS	DATE	SCALE	FIG.

DIAGRAM, SCHEMATIC	DATE	SCALE	FIG.

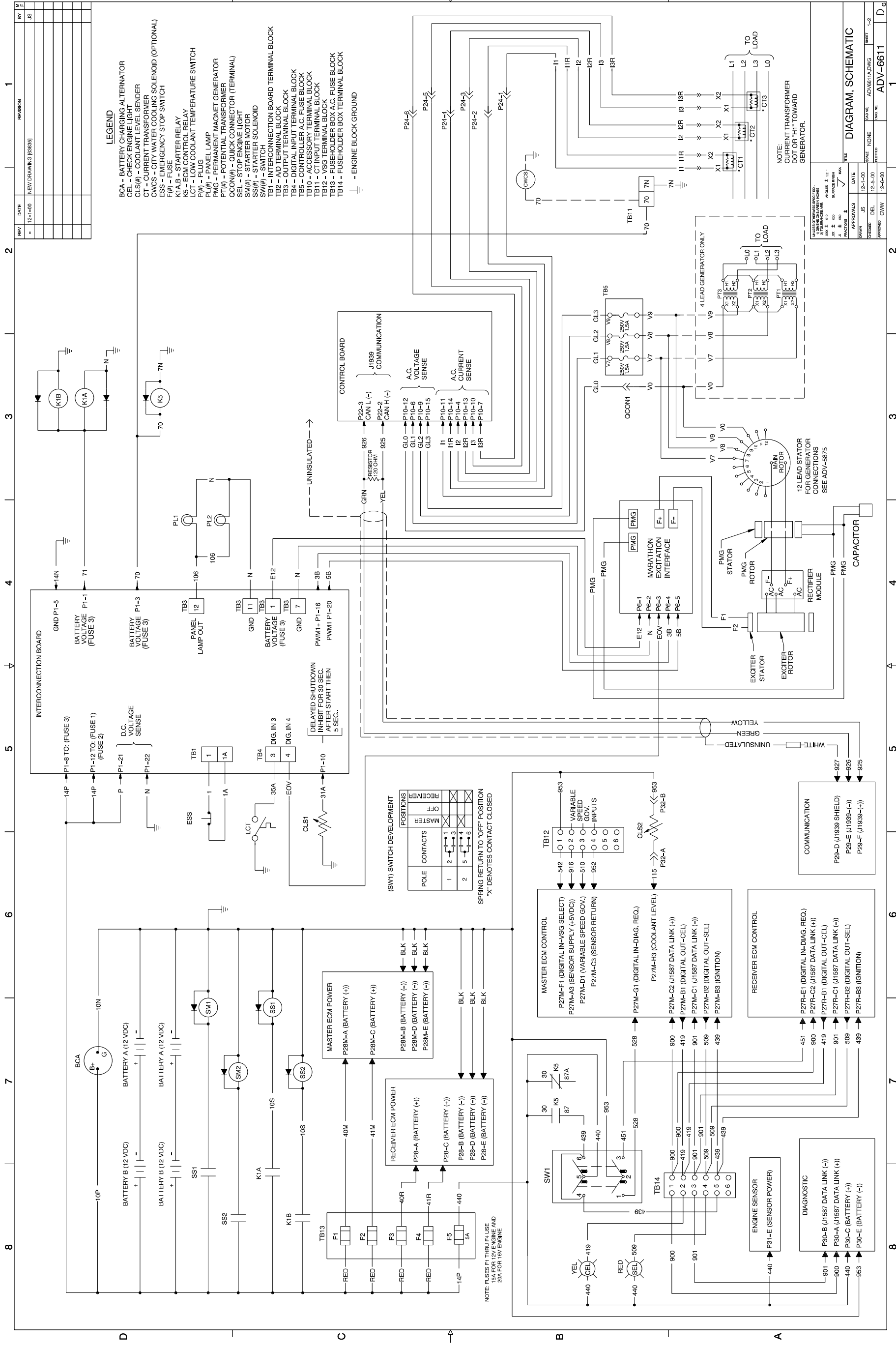
DIAGRAM, SCHEMATIC	DATE	SCALE	FIG.

DIAGRAM, SCHEMATIC	DATE	SCALE	FIG.

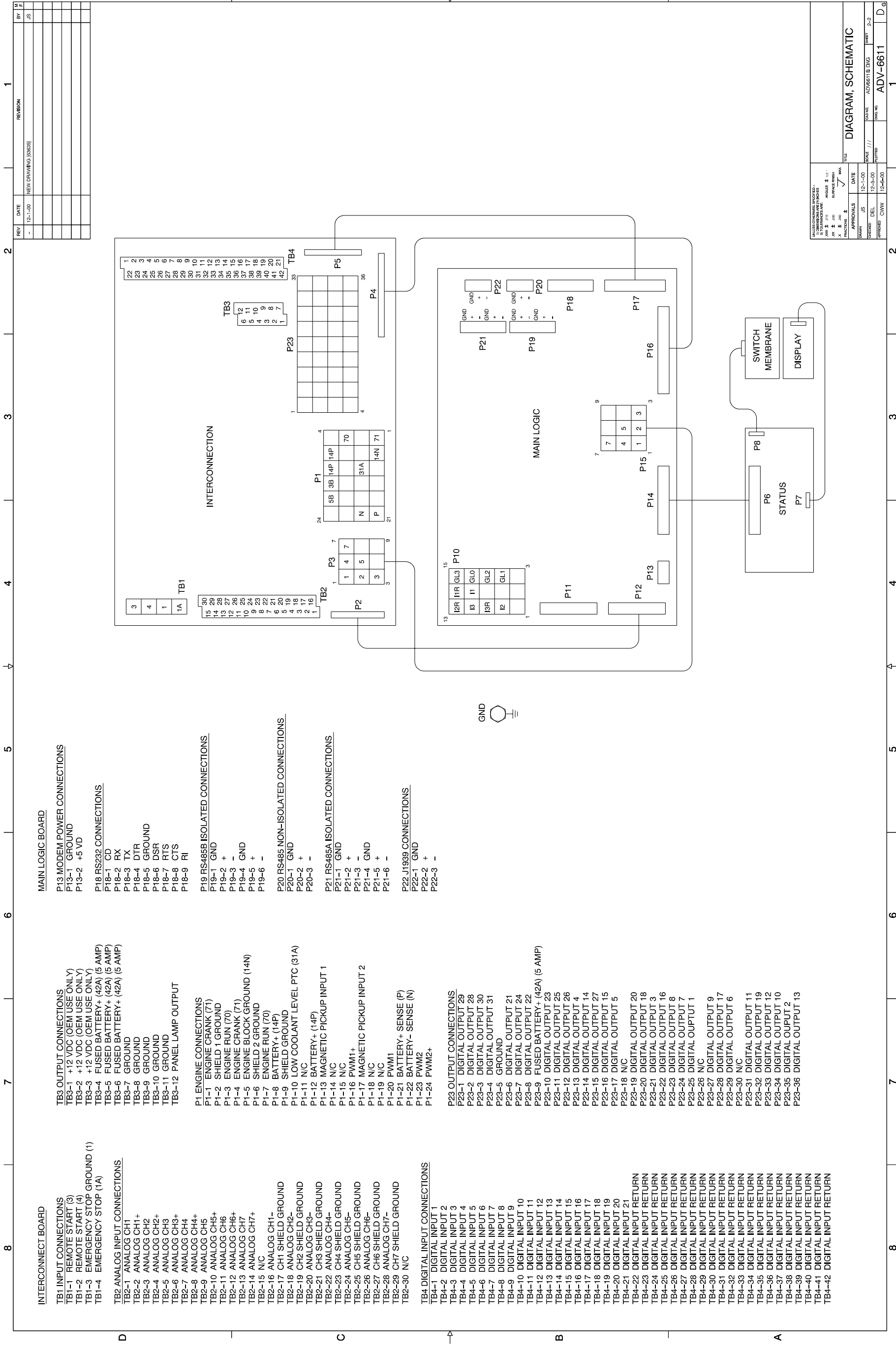
DIAGRAM, SCHEMATIC	DATE	SCALE	FIG.

DIAGRAM, SCHEMATIC	DATE	SCALE	FIG.

Decision-Maker™ 550 Controller, Schematic Diagram, Sheet 2, ADV-6602B-



Decision-Maker™ 550 Controller, Schematic Diagram, Sheet 1, ADV-6611A-

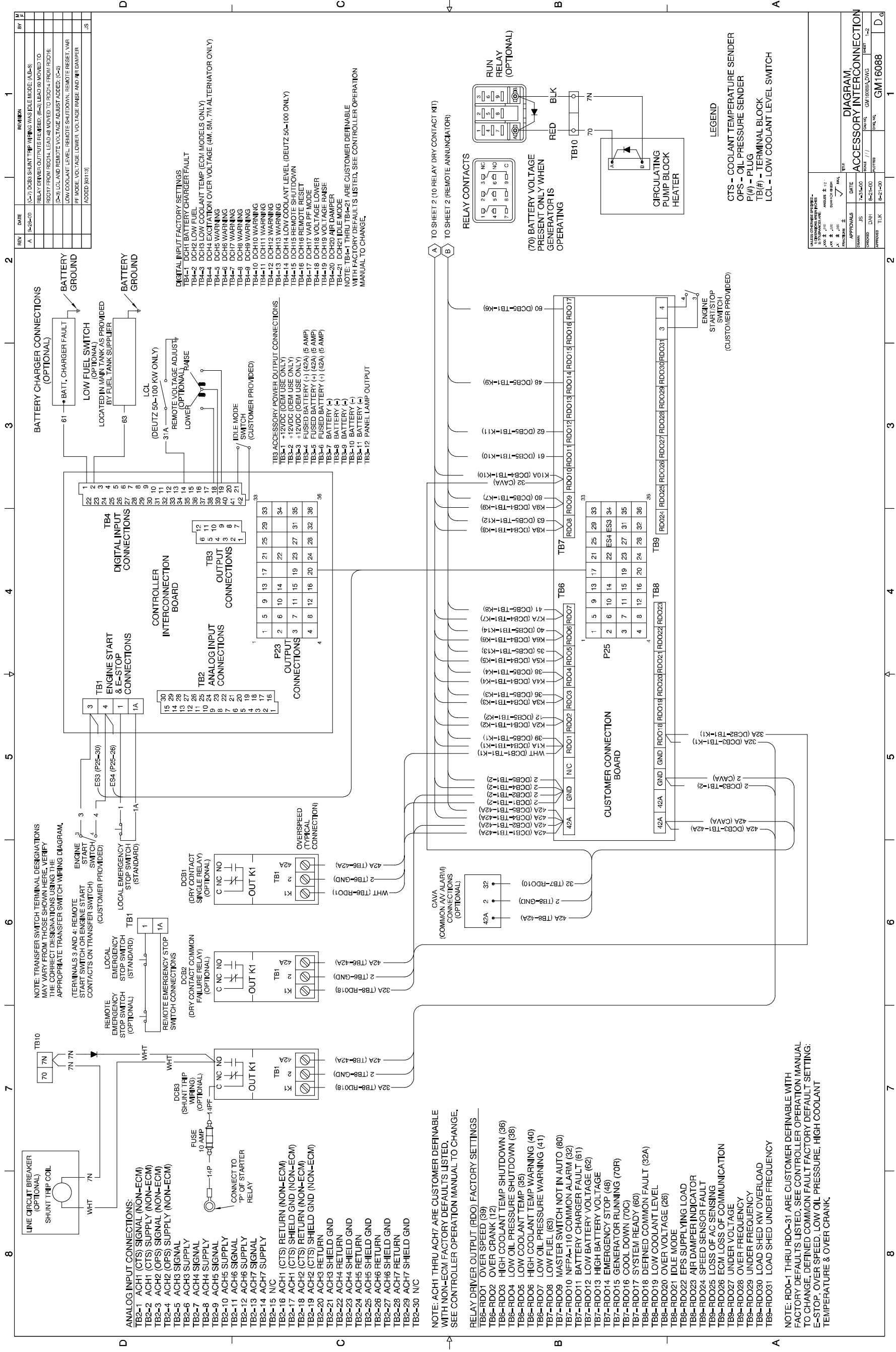


REV	DATE	REVISION	BY
-	12-1-00	NEW DRAWING (R003)	JS

DATE	DESCRIPTION	BY
12-1-00	ADVERTISED	JS
12-3-00	REVISED	DEL
12-6-00	REVISED	CHW

DIAGRAM, SCHEMATIC

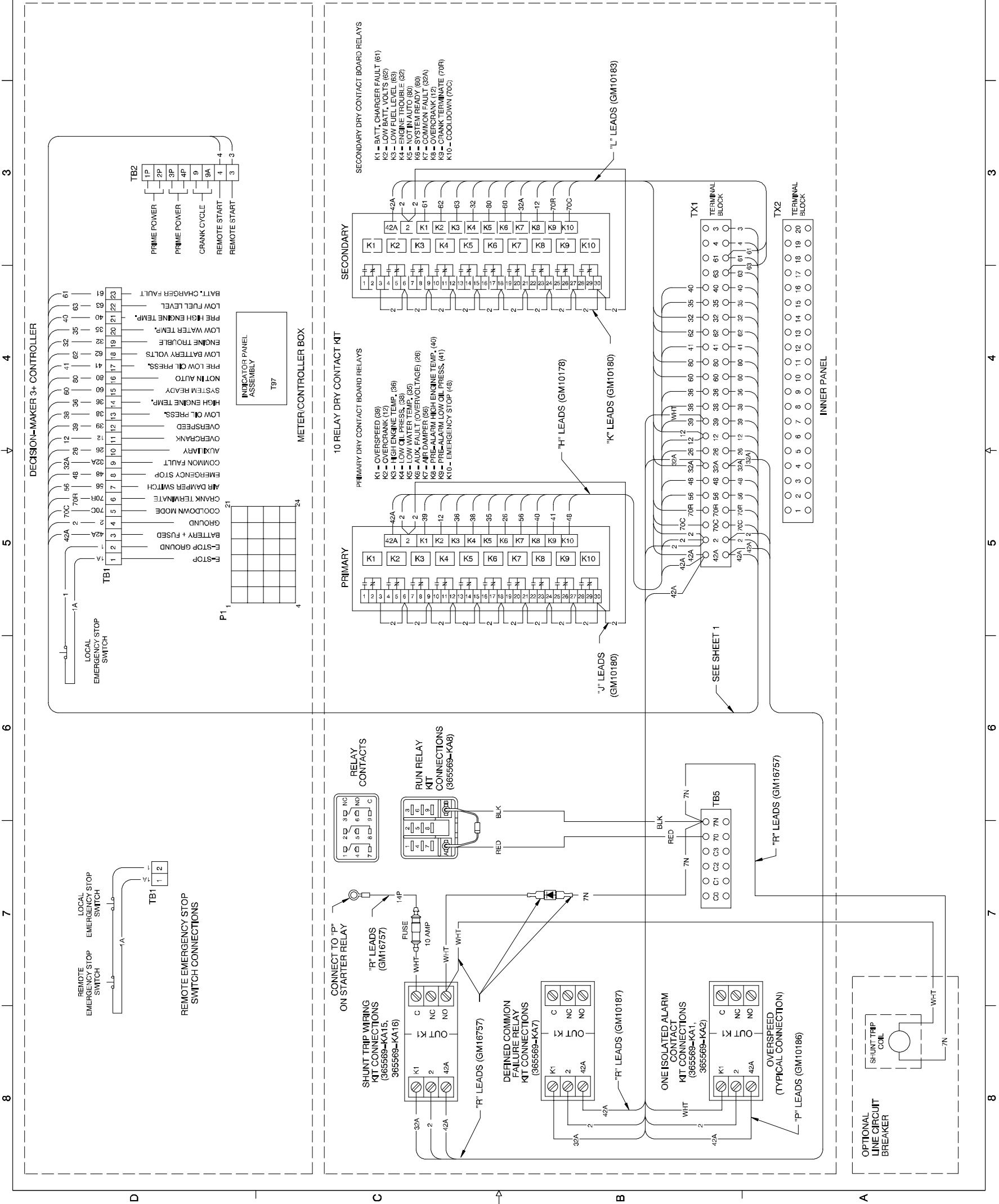
ADV-6611



Decision-Maker™ 550 Controller, Accessory Connections, Sheet 1, GM16088A-A



REV	DATE	REVISION	BY
1	01/01/00	NEW DRAWING (86886)	DFS
2	01/01/01	SEE SHEETS 4, 5, 6 & 7 (86817)	DFS



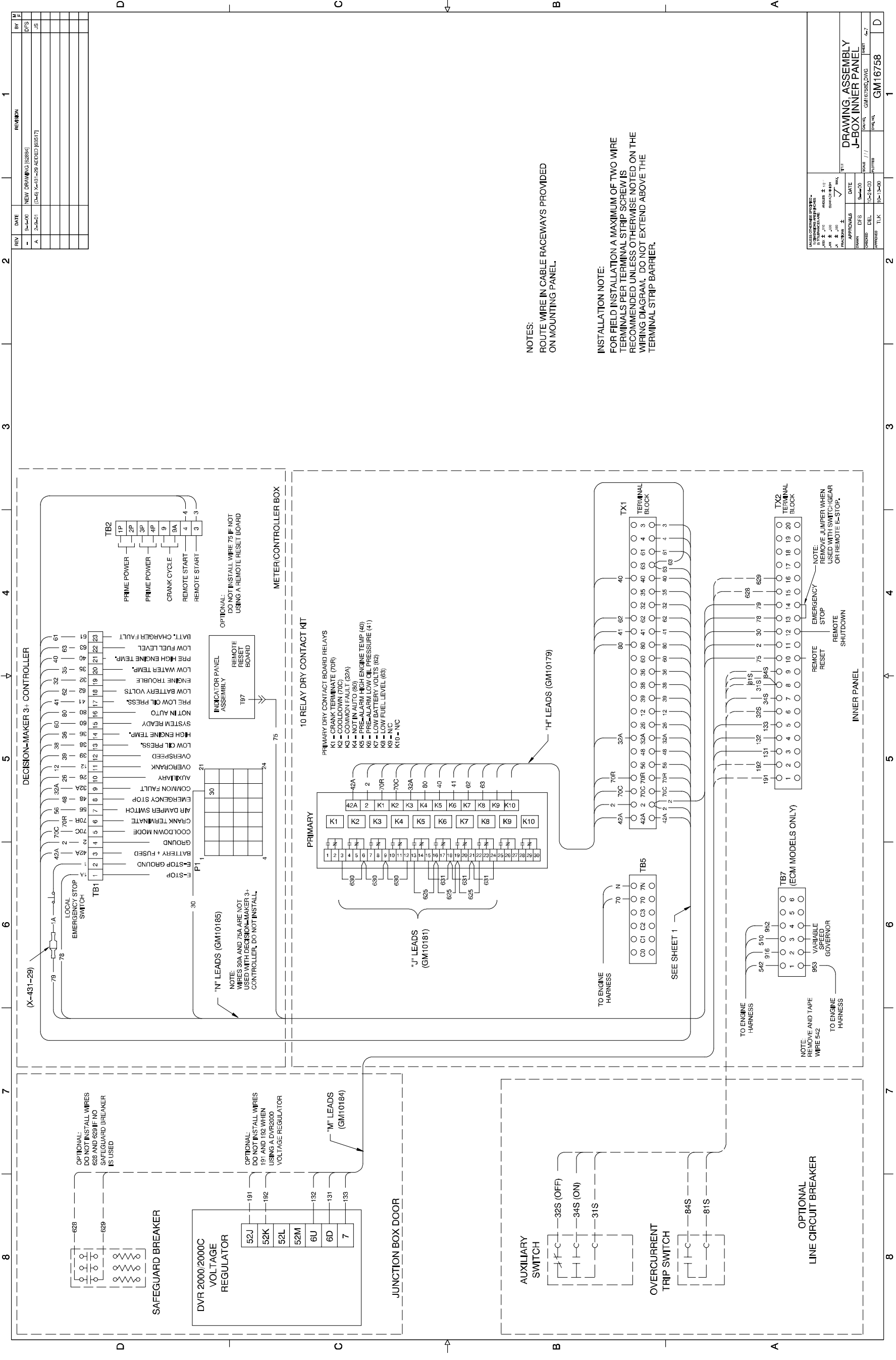
**NOTES:**  
 FOR 20 RELAY DRY CONTACT KIT ORDER ONE 365569-KA3 PRIMARY AND ONE 365569-KA4 SECONDARY DRY CONTACT KIT.  
 FOR TWO ISOLATED ALARM CONTACT KITS, ORDER ONE 365569-KA1 PRIMARY AND ONE 365569-KA2 SECONDARY SINGLE RELAY DRY CONTACT KIT.  
 ROUTE WIRE IN CABLE FACEWAYS PROVIDED ON MOUNTING PANEL.

**INSTALLATION NOTE:**  
 FOR FIELD INSTALLATION A MAXIMUM OF TWO WIRE TERMINALS PER TERMINAL STRIP SCREWS IS RECOMMENDED UNLESS OTHERWISE NOTED ON THE WIRING DIAGRAM. DO NOT EXTEND ABOVE THE TERMINAL STRIP BARRIER.

APPROVALS	DATE	SCALE	FIG. NO.	FIG. NAME	FIG. NO.
DESIGNED BY: DFS	01/01/00	1:1	1	DECISION-MAKER 3+ CONTROLLER	1
CHECKED BY: T.L.K.	01/01/00	1:1	1	DECISION-MAKER 3+ CONTROLLER	1
<b>DRAWING ASSEMBLY J-BOX INNER PANEL</b>					
APPROVED BY: T.L.K.	01/01/00	1:1	1	DECISION-MAKER 3+ CONTROLLER	1

Decision-Maker™ 3+ Controller, Accessory Connections, Sheet 4, GM16758B-A





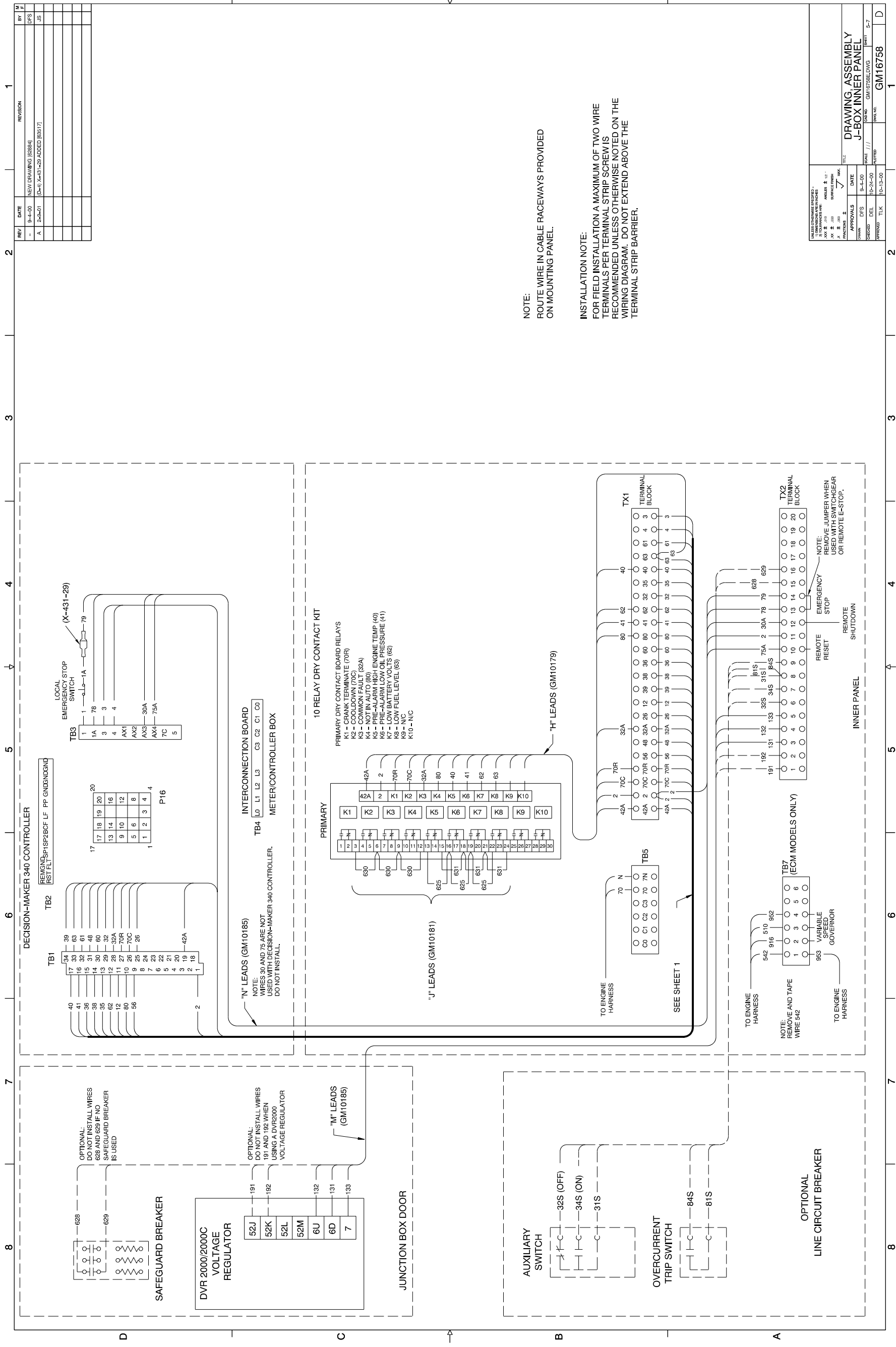
Decision-Maker™ 3+ Controller, Accessory Connections, Sheet 5, GM16758D-A

REV	DATE	REVISION	BY
-	03-01-00	NEW DRAWING (82884)	D/PS
A	03-01-01	(8-0) X-431-29 ADDED (8517)	J/S

APPROVALS	DATE	BY
D/PS	03-01-00	D/PS
DEL	10-13-00	DEL
T/LK	10-13-00	T/LK

**DRAWING ASSEMBLY J-BOX INNER PANEL**

GM16758



**Decision-Maker™ 340 Controller, Accessory Connections, Sheet 4, GM16758E-A**

REV	DATE	REVISION	BY	CHK
-	9-4-00	NEW DRAWING (82884)	DFSS	
A	2-2-01	(8-1)-4-13-20 ADDED (8317)	JIS	

APPROVALS	DATE	TITLE
DESIGNER	9-4-00	DRAWING - ASSEMBLY
CHECKER	9-4-00	J-BOX INNER PANEL
ENGINEER	9-4-00	
APPROVED	10-13-00	DATE
DESIGNED	10-13-00	DATE
DRAWN	10-13-00	DATE
CHECKED	10-13-00	DATE
APPROVED	10-13-00	DATE

NO.	DESCRIPTION	DATE
1	ISSUED FOR FIELD INSTALLATION	9-4-00
2	REVISED TO ADD WIRE 75	2-2-01
3	REVISED TO ADD WIRE 78	2-2-01
4	REVISED TO ADD WIRE 79	2-2-01
5	REVISED TO ADD WIRE 80	2-2-01
6	REVISED TO ADD WIRE 81	2-2-01
7	REVISED TO ADD WIRE 82	2-2-01
8	REVISED TO ADD WIRE 83	2-2-01
9	REVISED TO ADD WIRE 84	2-2-01
10	REVISED TO ADD WIRE 85	2-2-01
11	REVISED TO ADD WIRE 86	2-2-01
12	REVISED TO ADD WIRE 87	2-2-01
13	REVISED TO ADD WIRE 88	2-2-01
14	REVISED TO ADD WIRE 89	2-2-01
15	REVISED TO ADD WIRE 90	2-2-01
16	REVISED TO ADD WIRE 91	2-2-01
17	REVISED TO ADD WIRE 92	2-2-01
18	REVISED TO ADD WIRE 93	2-2-01
19	REVISED TO ADD WIRE 94	2-2-01
20	REVISED TO ADD WIRE 95	2-2-01
21	REVISED TO ADD WIRE 96	2-2-01
22	REVISED TO ADD WIRE 97	2-2-01
23	REVISED TO ADD WIRE 98	2-2-01
24	REVISED TO ADD WIRE 99	2-2-01
25	REVISED TO ADD WIRE 100	2-2-01
26	REVISED TO ADD WIRE 101	2-2-01
27	REVISED TO ADD WIRE 102	2-2-01
28	REVISED TO ADD WIRE 103	2-2-01
29	REVISED TO ADD WIRE 104	2-2-01
30	REVISED TO ADD WIRE 105	2-2-01
31	REVISED TO ADD WIRE 106	2-2-01
32	REVISED TO ADD WIRE 107	2-2-01
33	REVISED TO ADD WIRE 108	2-2-01
34	REVISED TO ADD WIRE 109	2-2-01
35	REVISED TO ADD WIRE 110	2-2-01
36	REVISED TO ADD WIRE 111	2-2-01
37	REVISED TO ADD WIRE 112	2-2-01
38	REVISED TO ADD WIRE 113	2-2-01
39	REVISED TO ADD WIRE 114	2-2-01
40	REVISED TO ADD WIRE 115	2-2-01
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178	REVISED TO ADD WIRE 253	2-2-01
179	REVISED TO ADD WIRE 254	2-2-01
180	REVISED TO ADD WIRE 255	2-2-01
181	REVISED TO ADD WIRE 256	2-2-01
182	REVISED TO ADD WIRE 257	2-2-01
183	REVISED TO ADD WIRE 258	2-2-01
184	REVISED TO ADD WIRE 259	2-2-01
185	REVISED TO ADD WIRE 260	2-2-01
186	REVISED TO ADD WIRE 261	2-2-01
187	REVISED TO ADD WIRE 262	2-2-01
188	REVISED TO ADD WIRE 263	2-2-01
189	REVISED TO ADD WIRE 264	2-2-01
190	REVISED TO ADD WIRE 265	2-2-01
191	REVISED TO ADD WIRE 266	2-2-01
192	REVISED TO ADD WIRE 267	2-2-01
193	REVISED TO ADD WIRE 268	2-2-01
194	REVISED TO ADD WIRE 269	2-2-01
195	REVISED TO ADD WIRE 270	2-2-01
196	REVISED TO ADD WIRE 271	2-2-01
197	REVISED TO ADD WIRE 272	2-2-01
198	REVISED TO ADD WIRE 273	2-2-01
199	REVISED TO ADD WIRE 274	2-2-01
200	REVISED TO ADD WIRE 275	2-2-01
201	REVISED TO ADD WIRE 276	2-2-01
202	REVISED TO ADD WIRE 277	2-2-01
203	REVISED TO ADD WIRE 278	2-2-01
204	REVISED TO ADD WIRE 279	2-2-01
205	REVISED TO ADD WIRE 280	2-2-01
206	REVISED TO ADD WIRE 281	2-2-01
207	REVISED TO ADD WIRE 282	2-2-01
208	REVISED TO ADD WIRE 283	2-2-01
209	REVISED TO ADD WIRE 284	2-2-01
210	REVISED TO ADD WIRE 285	2-2-01
211	REVISED TO ADD WIRE 286	2-2-01
212	REVISED TO ADD WIRE 287	2-2-01
213	REVISED TO ADD WIRE 288	2-2-01
214	REVISED TO ADD WIRE 289	2-2-01
215	REVISED TO ADD WIRE 290	2-2-01
216	REVISED TO ADD WIRE 291	2-2-01
217	REVISED TO ADD WIRE 292	2-2-01
218	REVISED TO ADD WIRE 293	2-2-01
219	REVISED TO ADD WIRE 294	2-2-01
220	REVISED TO ADD WIRE 295	2-2-01
221	REVISED TO ADD WIRE 296	2-2-01
222	REVISED TO ADD WIRE 297	2-2-01
223	REVISED TO ADD WIRE 298	2-2-01
224	REVISED TO ADD WIRE 299	2-2-01
225	REVISED TO ADD WIRE 300	2-2-01
226	REVISED TO ADD WIRE 301	2-2-01
227	REVISED TO ADD WIRE 302	2-2-01
228	REVISED TO ADD WIRE 303	2-2-01
229	REVISED TO ADD WIRE 304	2-2-01
230	REVISED TO ADD WIRE 305	2-2-01
231	REVISED TO ADD WIRE 306	2-2-01
232	REVISED TO ADD WIRE 307	2-2-01
233	REVISED TO ADD WIRE 308	2-2-01
234	REVISED TO ADD WIRE 309	2-2-01
23		





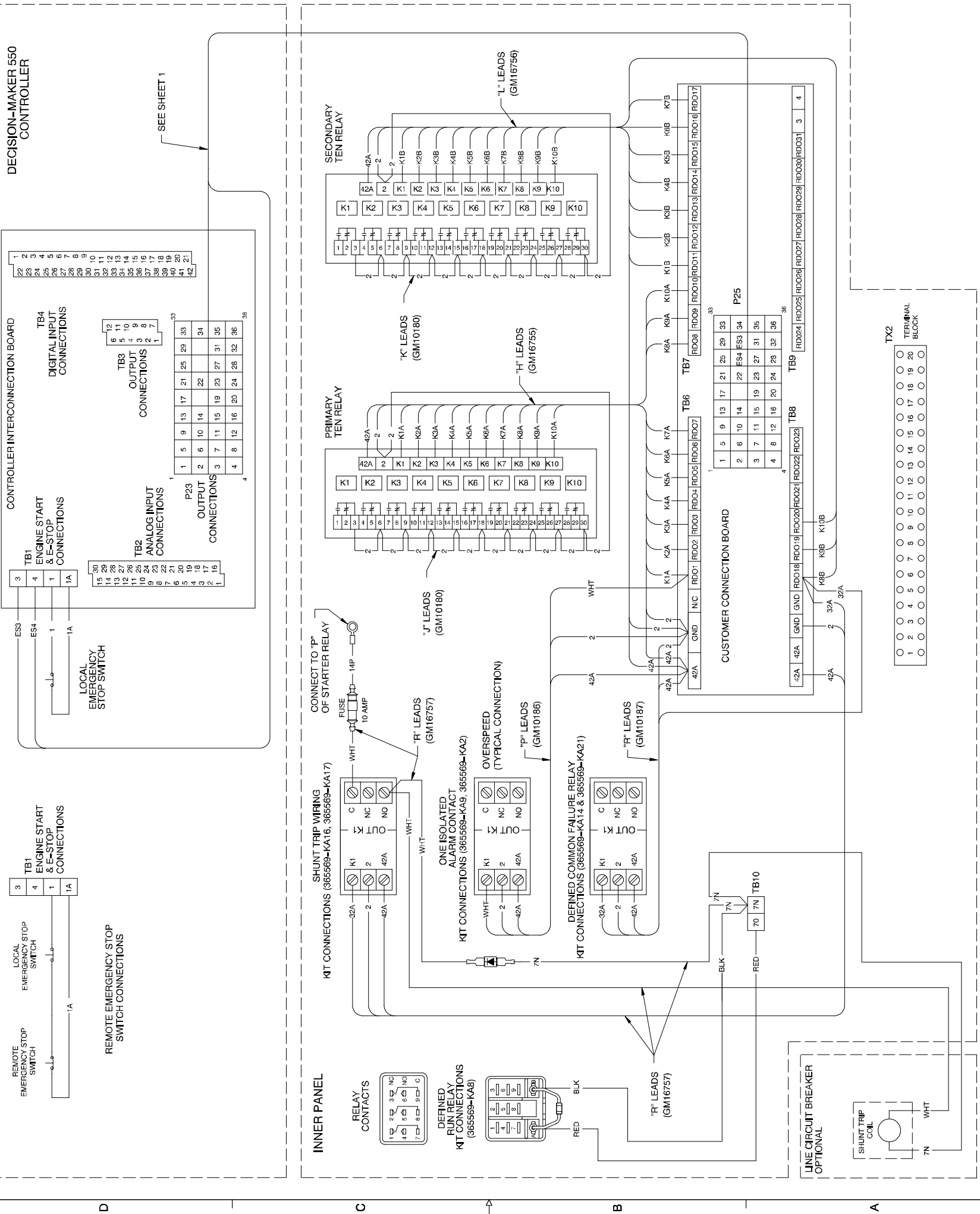
8 7 6 5 4 3 2 1

REV	DATE	REVISION	BY
1	10-10-00	NEW DRAWING (86864)	DPS
2	10-10-01	(A-7) RESEAL BOARD REMOVED (86-7), 365569-KA21 ADDED TO KIT CONNECTIONS (8977)	JS
3	10-10-01	SEE SHEETS 3 & 4 (8977)	JS

D C B A

NOTES:  
 TB4-1 THRU TB4-21 AND RDO-1 THRU RDO-31 ARE CUSTOMER DEFINABLE WITH FACTORY DEFAULTS LISTED ON DRAWING GM16088. SEE CONTROLLER OPERATIONS MANUAL TO CHANGE.  
 FOR 20 RELAY DRY CONTACT KIT ORDER ONE 365569-KA10 PRIMARY AND ONE 365569-KA11 SECONDARY DRY CONTACT KIT.  
 FOR TWO ISOLATED ALARM CONTACT KITS, ORDER ONE 365569-KA9 PRIMARY AND ONE 365569-KA2 SECONDARY SINGLE RELAY DRY CONTACT KIT.  
 ROUTE WIRE IN CABLE RACEWAYS PROVIDED ON MOUNTING PANEL.

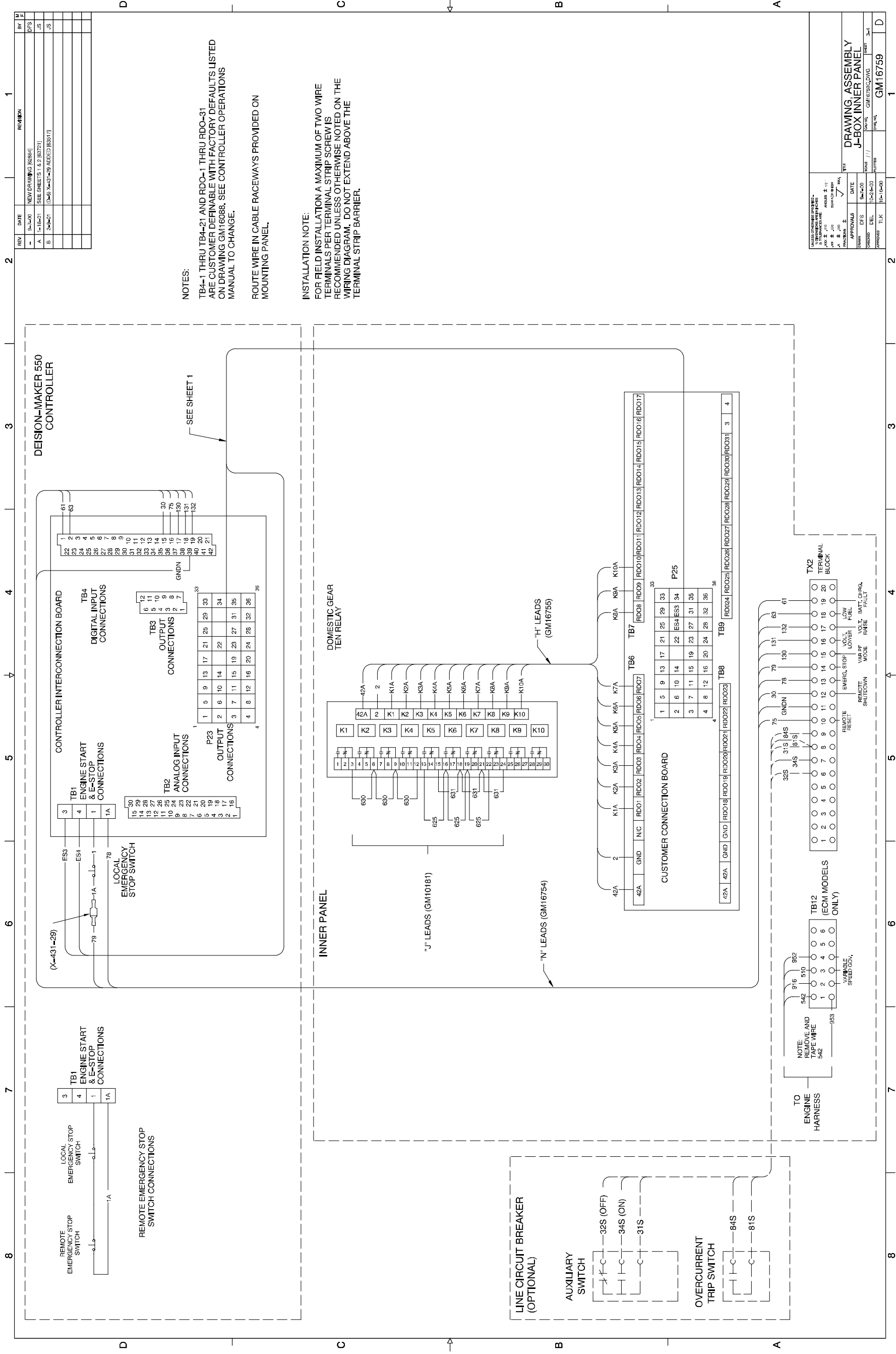
INSTALLATION NOTE:  
 FOR FIELD INSTALLATION A MAXIMUM OF TWO WIRE TERMINALS PER TERMINAL STRIP SCREW IS RECOMMENDED UNLESS OTHERWISE NOTED ON THE WIRING DIAGRAM. DO NOT EXTEND ABOVE THE TERMINAL STRIP BARRIER.



APPROVALS	DATE	BY
DESIGNED BY: JS		
CHECKED BY: JS		
APPROVED BY: JS		
DATE: 10-10-00		
SCALE: 1/1		
DRAWING NO.: GM16759B-DWG		
REVISION: 1		
BY: JS		

**DRAWING ASSEMBLY J-BOX INNER PANEL**

Decision-Maker™ 550 Controller, Accessory Connections, Sheet 3, GM16759B-B



**NOTES:**

TB4-1 THRU TB4-21 AND RDO-1 THRU RDO-31 ARE CUSTOMER DEFINABLE WITH FACTORY DEFAULTS LISTED ON DRAWING GM16088. SEE CONTROLLER OPERATIONS MANUAL TO CHANGE.

ROUTE WIRE IN CABLE RACEWAYS PROVIDED ON MOUNTING PANEL.

**INSTALLATION NOTE:**

FOR FIELD INSTALLATION A MAXIMUM OF TWO WIRE TERMINALS PER TERMINAL STRIP SCREW IS RECOMMENDED UNLESS OTHERWISE NOTED ON THE WIRING DIAGRAM. DO NOT EXTEND ABOVE THE TERMINAL STRIP BARRIER.

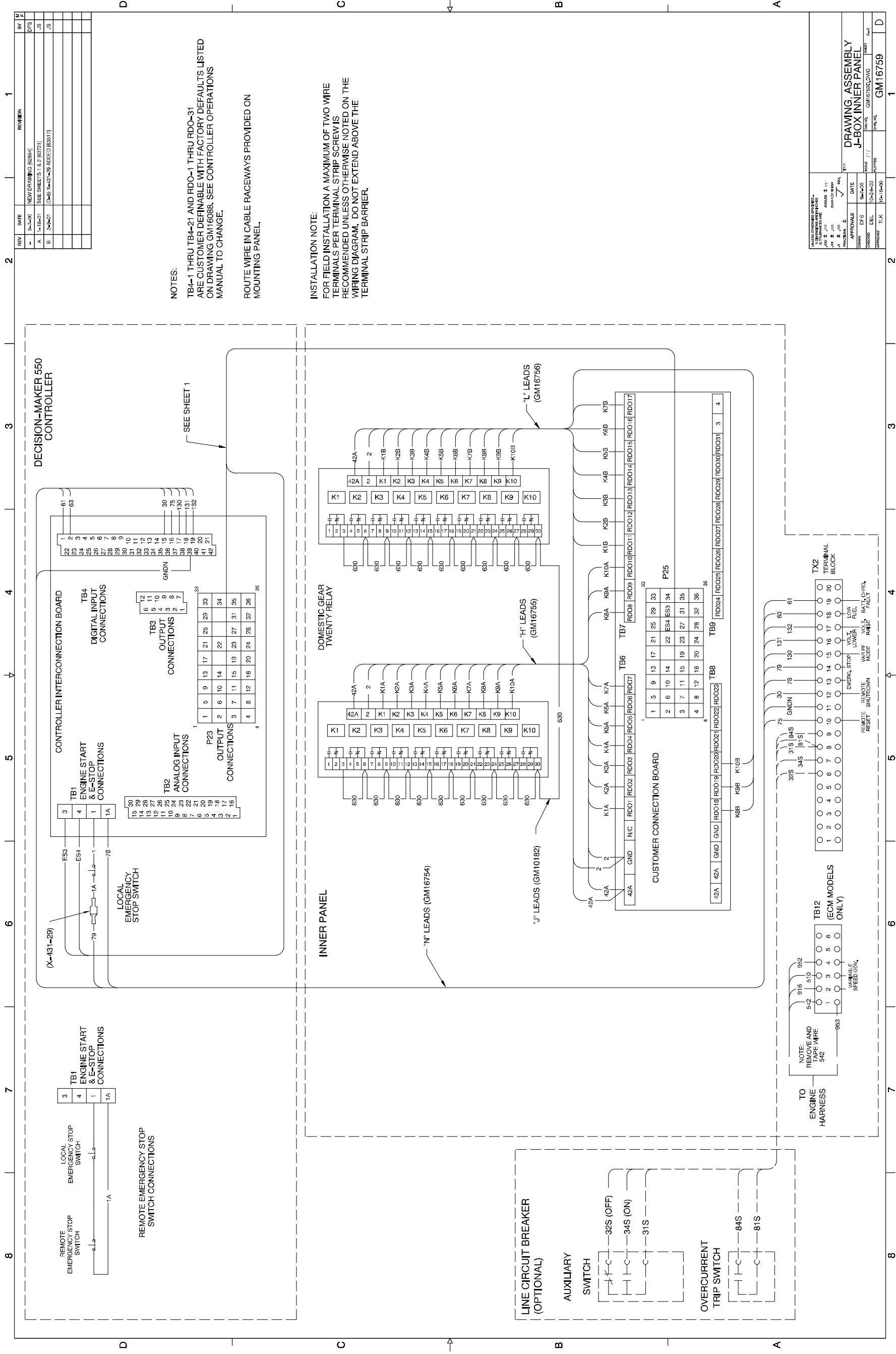
REV	DATE	DESCRIPTION	BY
1	10-11-00	NEW DRAWING (60884)	DFS
2	10-11-01	SEE SHEETS 1 & 2 (R0221)	JS
3	10-11-01	(10-8) X-431-29 ADDED (R0317)	JS

APPROVALS		DATE	BY
DESIGNED	DFS	10-11-00	DFS
CHECKED	DEL		
APPROVED	TJK	10-11-00	

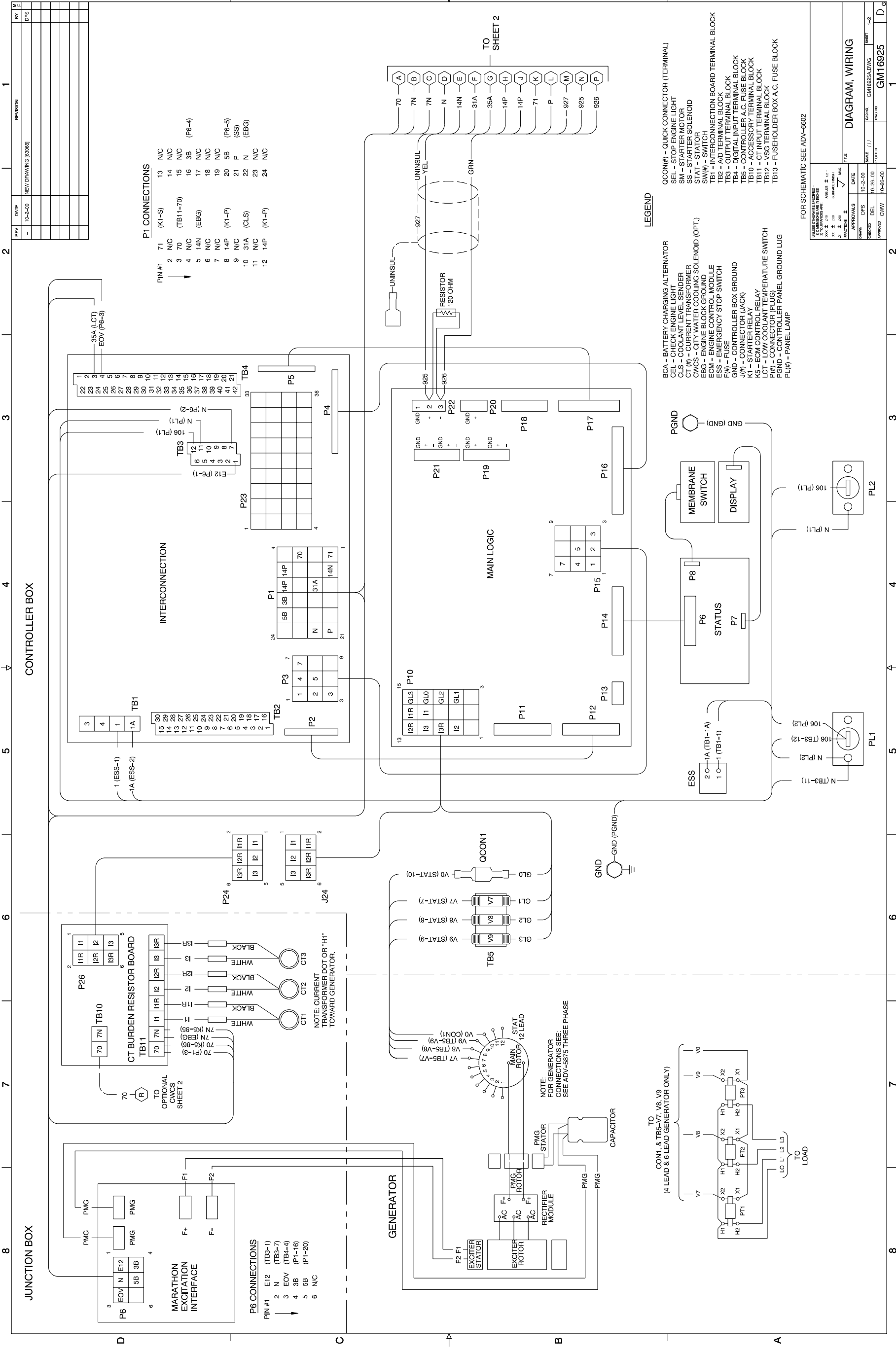
  

DRAWING ASSEMBLY		DATE	BY
DESIGNED	DFS	10-11-00	DFS
CHECKED	DEL		
APPROVED	TJK	10-11-00	

**Decision-Maker™ 550 Controller, Accessory Connections, Sheet 4, GM16759C-B**



Decision-Maker™ 550 Controller, Accessory Connections, Sheet 5, GM16759D-B



**P1 CONNECTIONS**

PIN #1	71	(K1-S)	13	N/C
2	N/C		14	N/C
3	70	(TB11-70)	15	N/C
4	N/C		16	3B (P6-4)
5	14N	(EBG)	17	N/C
6	N/C		18	N/C
7	N/C		19	N/C
8	14P	(K1-P)	20	5B (P6-5)
9	N/C		21	P (SS)
10	31A	(CLS)	22	N
11	N/C		23	N/C
12	14P	(K1-P)	24	N/C

**P6 CONNECTIONS**

PIN #1	E12	(TB3-1)
2	N	(TB3-7)
3	EOV	(TB4-4)
4	3B	(P1-16)
5	5B	(P1-20)
6	N/C	

- LEGEND**
- OCON1 - QUICK CONNECTOR (TERMINAL)
  - SEL - STOP ENGINE LIGHT
  - SMI - STARTER MOTOR
  - SWA - STARTER MOTOR SOLENOID
  - SW1 - SWITCH
  - TB1 - INTERCONNECTION BOARD TERMINAL BLOCK
  - TB2 - AD TERMINAL BLOCK
  - TB3 - OUTPUT TERMINAL BLOCK
  - TB4 - DIGITAL INPUT TERMINAL BLOCK
  - TB5 - CONTROLLER A.C. FUSE BLOCK
  - TB10 - ACCESSORY TERMINAL BLOCK
  - TB11 - CT INPUT TERMINAL BLOCK
  - TB12 - VSG TERMINAL BLOCK
  - TB13 - FUSEHOLDER BOX A.C. FUSE BLOCK
  - PL1 - PANEL LAMP
  - PL2 - PANEL LAMP
  - PL3 - PANEL LAMP
  - PL4 - PANEL LAMP
  - PL5 - PANEL LAMP
  - PL6 - PANEL LAMP
  - PL7 - PANEL LAMP
  - PL8 - PANEL LAMP
  - PL9 - PANEL LAMP
  - PL10 - PANEL LAMP
  - PL11 - PANEL LAMP
  - PL12 - PANEL LAMP
  - PL13 - PANEL LAMP
  - PL14 - PANEL LAMP
  - PL15 - PANEL LAMP
  - PL16 - PANEL LAMP
  - PL17 - PANEL LAMP
  - PL18 - PANEL LAMP
  - PL19 - PANEL LAMP
  - PL20 - PANEL LAMP
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  - PL29 - PANEL LAMP
  - PL30 - PANEL LAMP
  - PL31 - PANEL LAMP
  - PL32 - PANEL LAMP
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  - PL35 - PANEL LAMP
  - PL36 - PANEL LAMP
  - PL37 - PANEL LAMP
  - PL38 - PANEL LAMP
  - PL39 - PANEL LAMP
  - PL40 - PANEL LAMP
  - PL41 - PANEL LAMP
  - PL42 - PANEL LAMP
  - PL43 - PANEL LAMP
  - PL44 - PANEL LAMP
  - PL45 - PANEL LAMP
  - PL46 - PANEL LAMP
  - PL47 - PANEL LAMP
  - PL48 - PANEL LAMP
  - PL49 - PANEL LAMP
  - PL50 - PANEL LAMP

FOR SCHEMATIC SEE ADV-6602

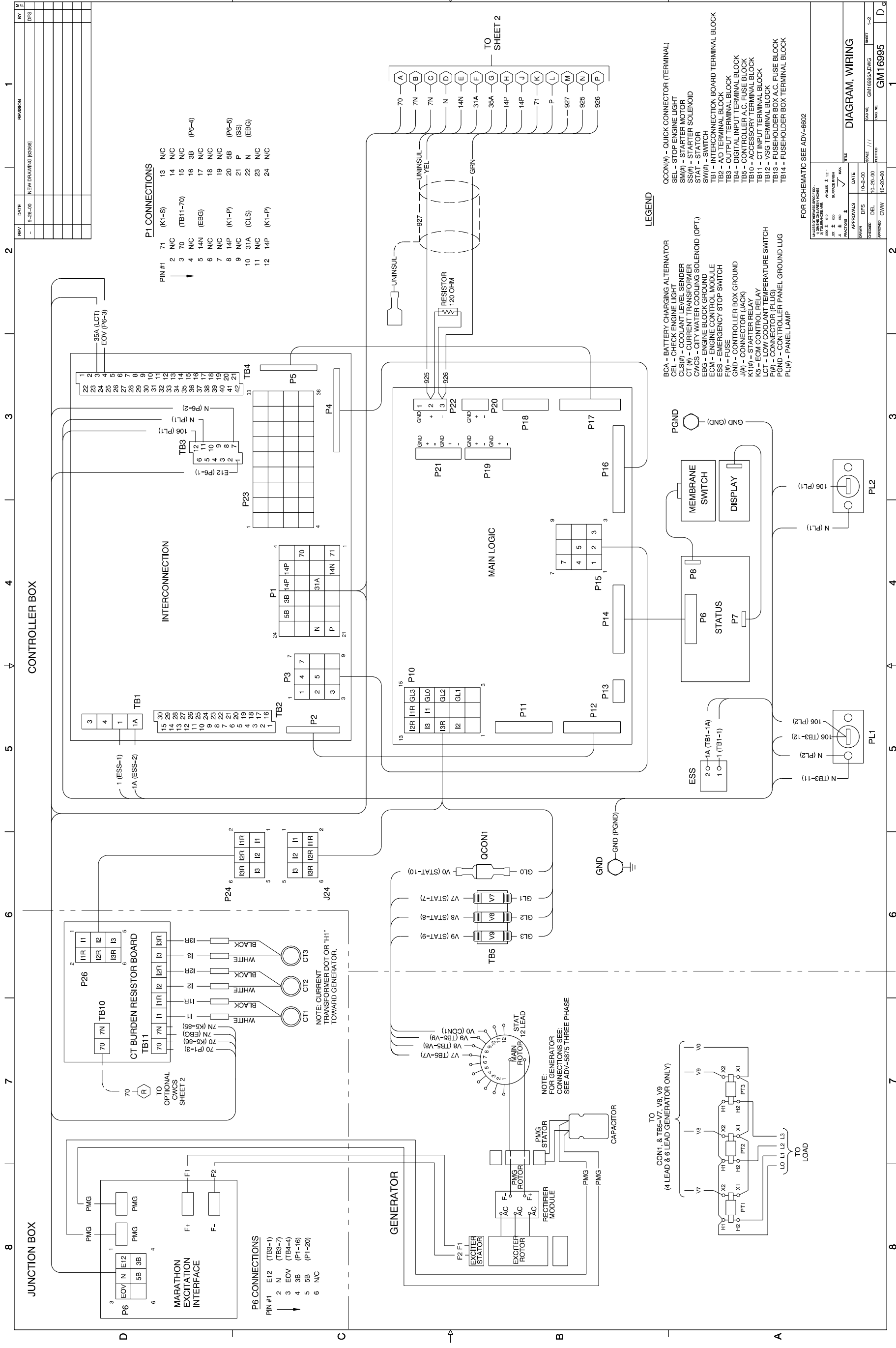
REV	DATE	BY	CHK	APP	DESCRIPTION
1	10-2-00	NEW DRAWING (R0068)			

DATE: 10-2-00  
 DRAWN: DFS  
 CHECKED: DEL  
 APPROVED: CWW

SCALE: 1/1  
 SHEET: 1-2  
 PART NO: GM16925A/DWG  
 DRAWING NO: GM16925

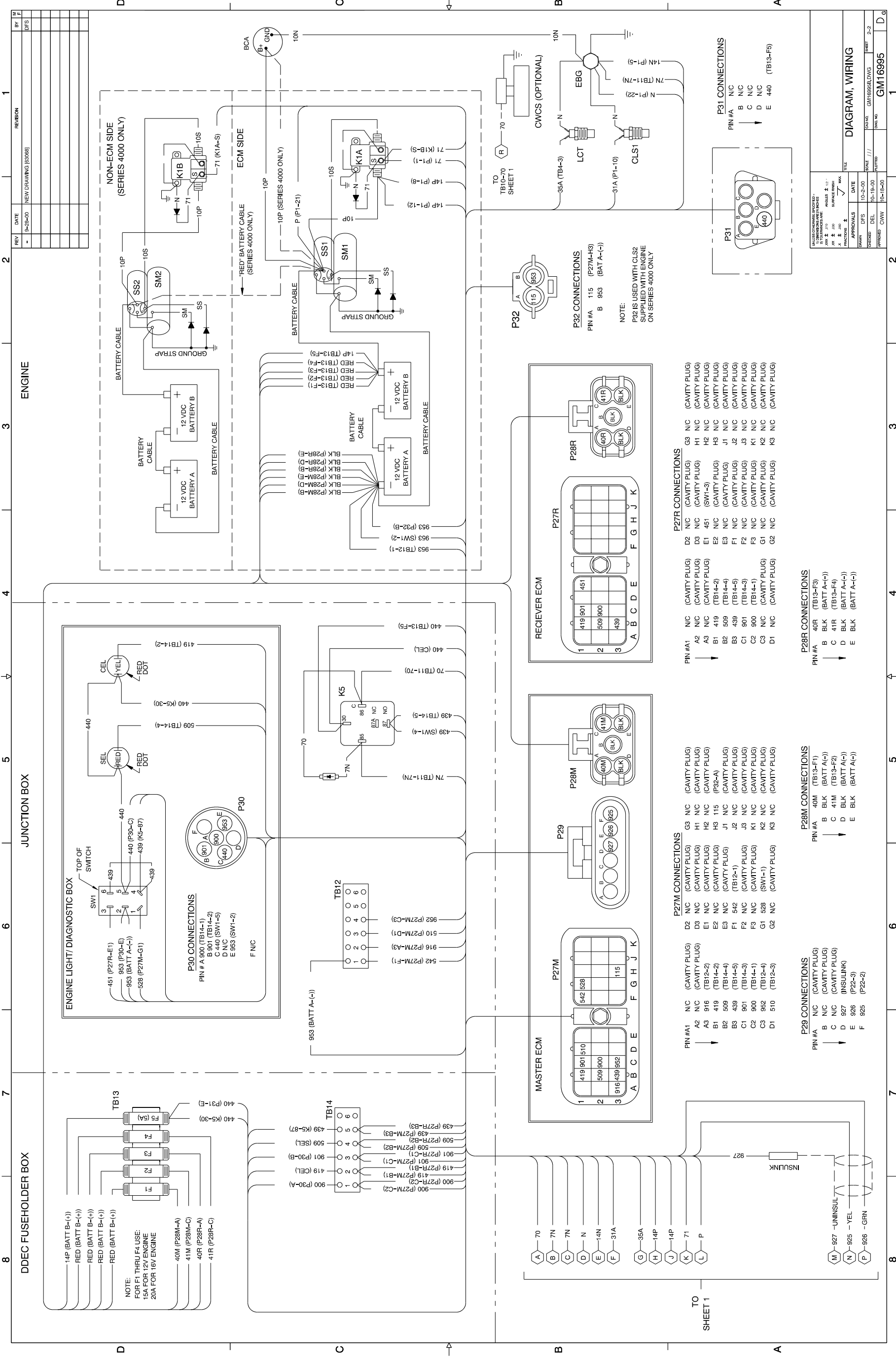
**DIAGRAM, WIRING**





Decision-Maker™ 550 Controller, Point-to-Point Wiring Diagram, Sheet 1, GM16995A-

TP-6004 4/01



REV	DATE	BY	REVISION
1	9-28-00	DFS	NEW DRAWING (B0098)

APPROVALS	DATE	BY
DESIGNED	10-2-00	DFS
CHECKED	10-2-00	DFS
DRAWN	10-2-00	DFS
APPROVED	10-2-00	DFS

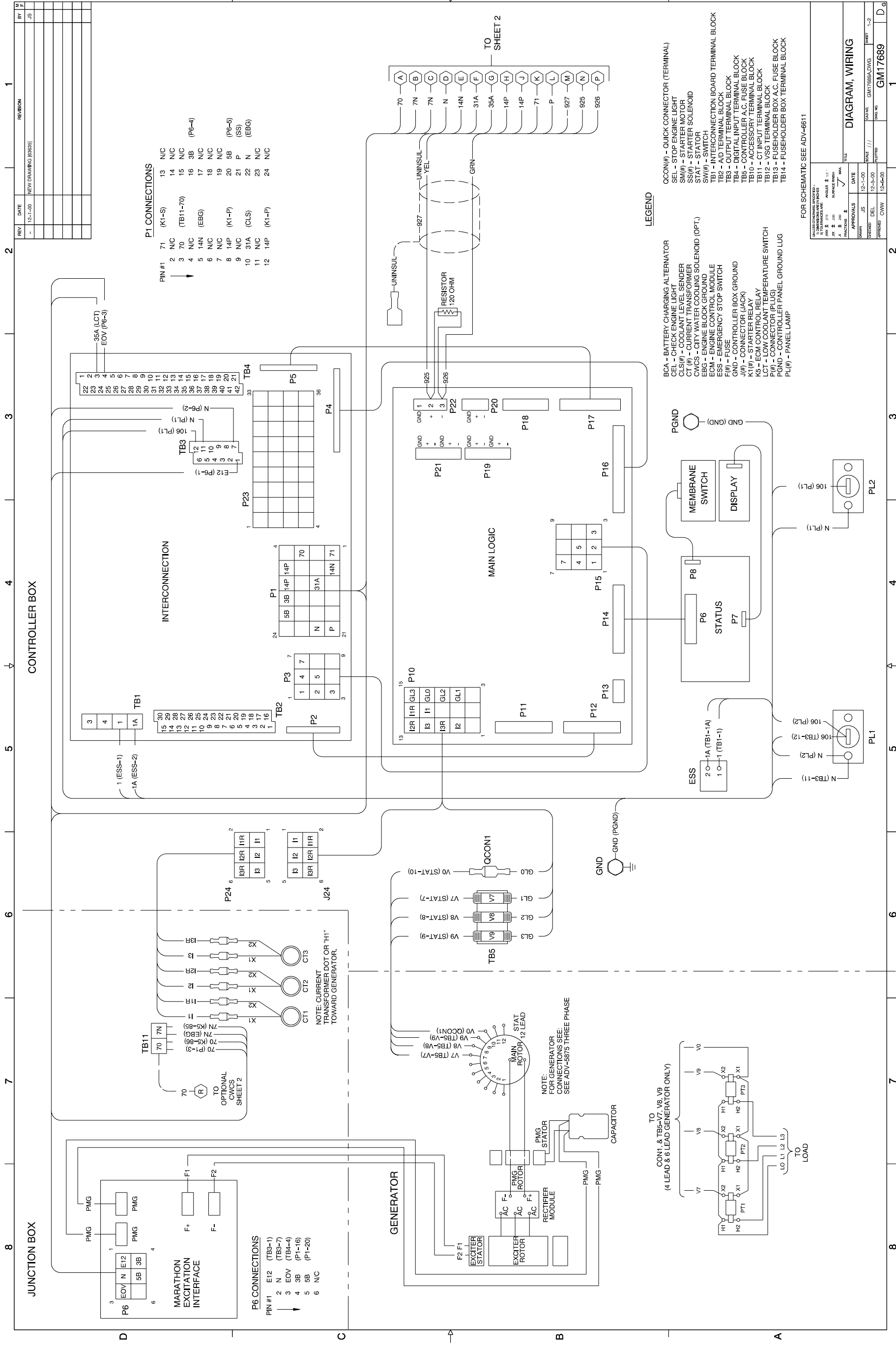
  

FIG	SCALE	DATE	BY
DIAGRAM, WIRING	1:1	10-2-00	DFS

FIG	SCALE	DATE	BY
GM16995	1:1	10-2-00	DFS

Decision-Maker™ 550 Controller, Point-to-Point Wiring Diagram, Sheet 2, GM16995B-



**P1 CONNECTIONS**

PIN #1	71	(K1-S)	13	N/C
2	N/C		14	N/C
3	70	(TB11-70)	15	N/C
4	N/C		16	3B (P6-4)
5	14N	(EBG)	17	N/C
6	N/C		18	N/C
7	N/C		19	N/C
8	14P	(K1-P)	20	5B (P6-5)
9	N/C		21	P (SS)
10	31A	(CLS)	22	N (EBG)
11	N/C		23	N/C
12	14P	(K1-P)	24	N/C

**INTERCONNECTION**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42															
15	29	14	28	12	27	11	26	10	25	9	24	8	23	7	22	6	21	5	20	4	19	3	18	2	17	1	16	30	15	29	14	28	12	27	11	26	10	25	9	24	8	23	7	22	6	21	5	20	4	19	3	18	2	17	1	16

**P6 CONNECTIONS**

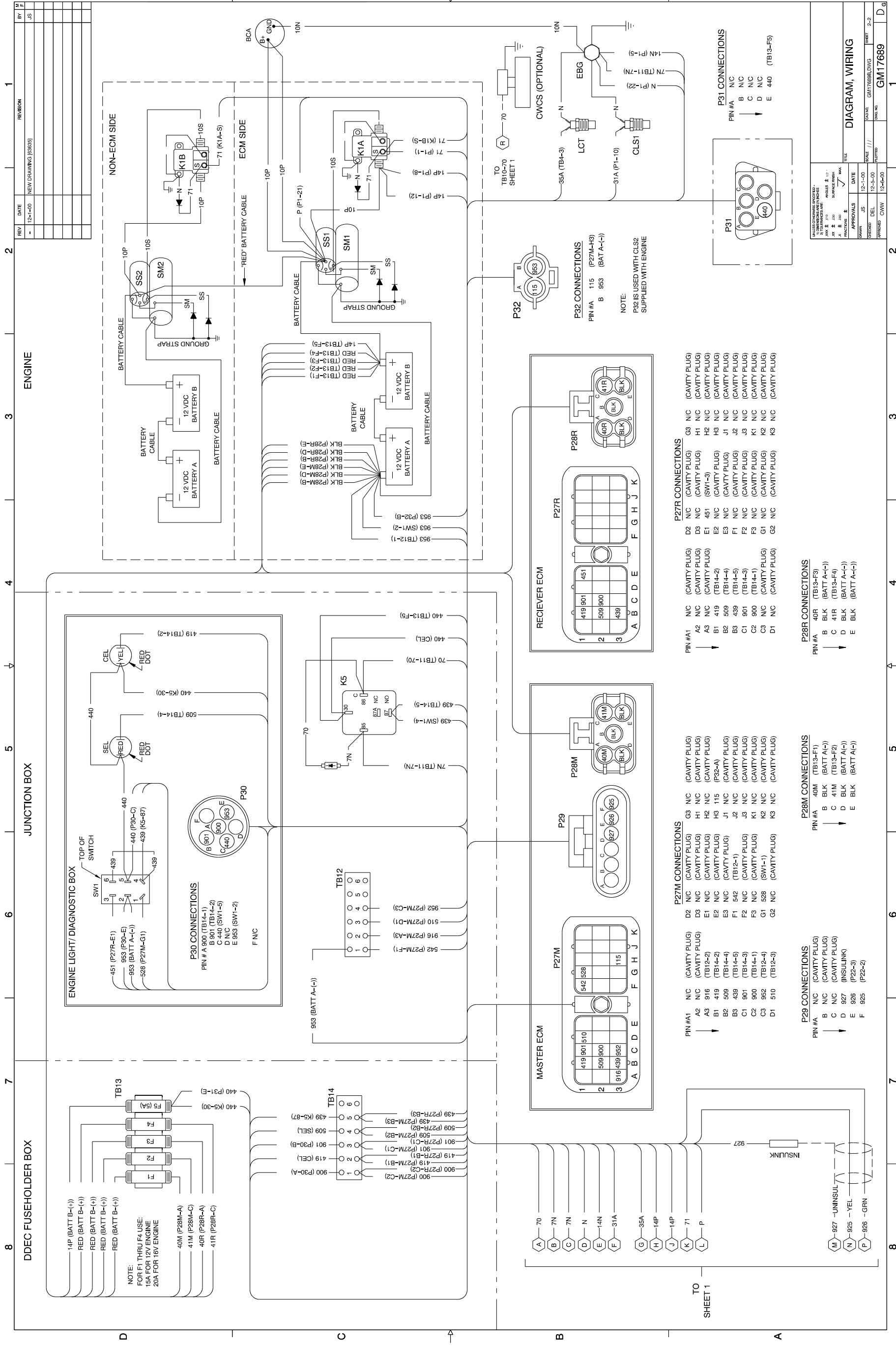
PIN #1	E12	(TB3-1)
2	N	(TB3-7)
3	EOV	(TB4-4)
4	3B	(P1-16)
5	5B	(P1-20)
6	N/C	

- LEGEND**
- BCA - BATTERY CHARGING ALTERNATOR
  - CLC - COOLANT LEVEL SENDER
  - CT (#) - CURRENT TRANSFORMER
  - CWCS - CITY WATER COOLING SOLENOID (OPT)
  - ECM - ENGINE BLOCK GROUND
  - ESS - ENGINE CONTROL MODULE
  - F (#) - FUSE
  - GND - CONTROLLER BOX GROUND
  - J (#) - CONNECTOR (JACK)
  - KS - STARTER RELAY
  - LCT - LOW COOLANT TEMPERATURE SWITCH
  - PGND - CONTROLLER PANEL GROUND LUG
  - PL (#) - PANEL LAMP
  - QCON (#) - QUICK CONNECTOR (TERMINAL)
  - SEL - STOP ENGINE LIGHT
  - SM (#) - STARTER MOTOR
  - STAT - STARTER SOLENOID
  - SW (#) - SWITCH
  - TB1 - INTERCONNECTION BOARD TERMINAL BLOCK
  - TB2 - AD TERMINAL BLOCK
  - TB3 - OUTPUT TERMINAL BLOCK
  - TB4 - DIGITAL INPUT TERMINAL BLOCK
  - TB5 - CONTROLLER A.C. FUSE BLOCK
  - TB10 - ACCESSORY TERMINAL BLOCK
  - TB11 - CT INPUT TERMINAL BLOCK
  - TB12 - VSG TERMINAL BLOCK
  - TB13 - FUSEHOLDER BOX A.C. FUSE BLOCK
  - TB14 - FUSEHOLDER BOX TERMINAL BLOCK

FOR SCHEMATIC SEE ADV-6611

DESIGNED BY	AW
CHECKED BY	DEL
APPROVED BY	AW
DATE	12-1-00
SCALE	1/1
SHEET	1-2
DWG. NO.	GM17689A.DWG
REV. NO.	GM17689

**DIAGRAM, WIRING**



REV	DATE	BY	REVISION
1	12-1-00	JLS	NEW DRAWING (B9695)

APPROVALS	DATE	BY	REVISION

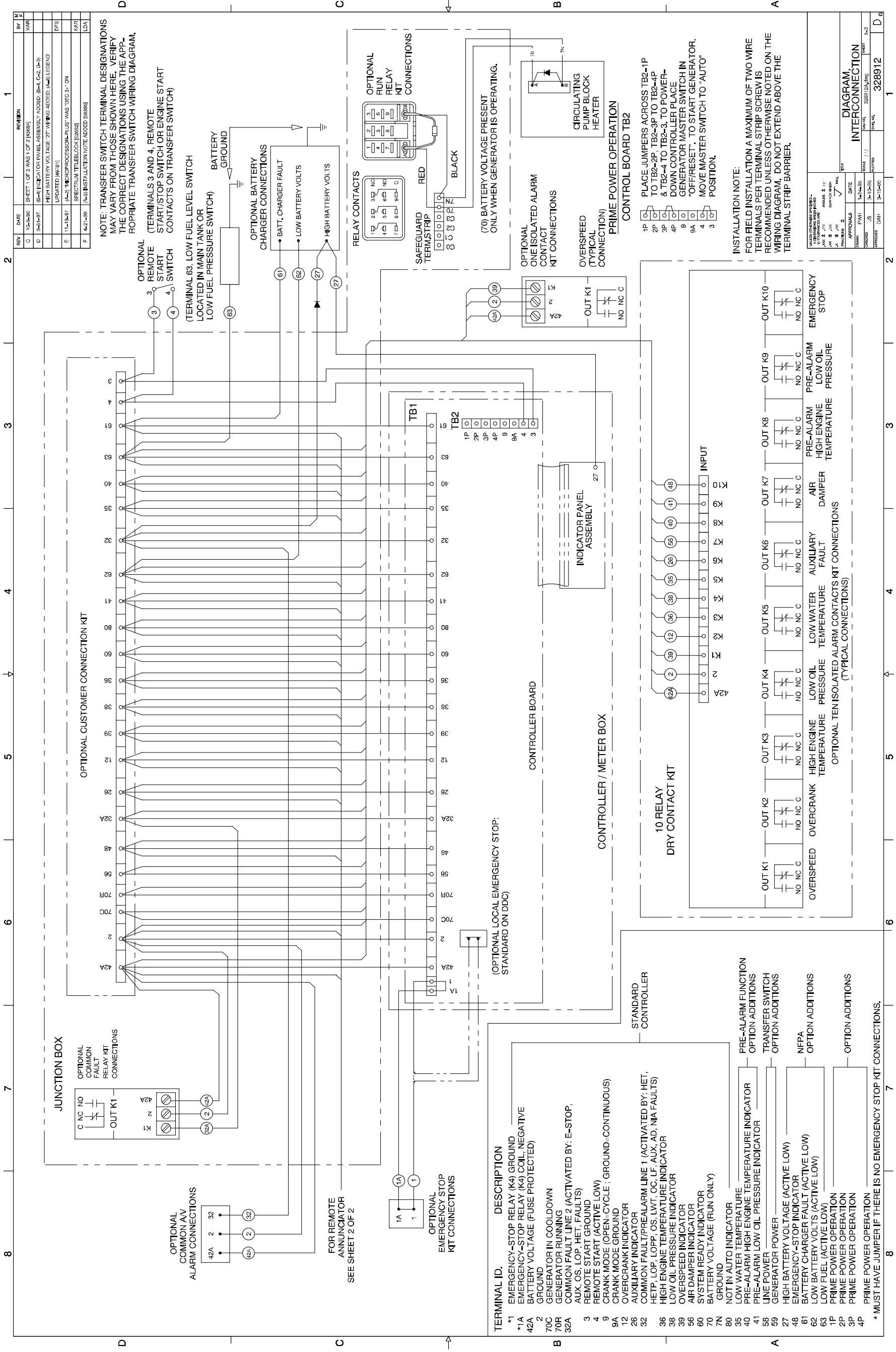
DESIGNED	DATE	BY	REVISION

DESIGNED	DATE	BY	REVISION

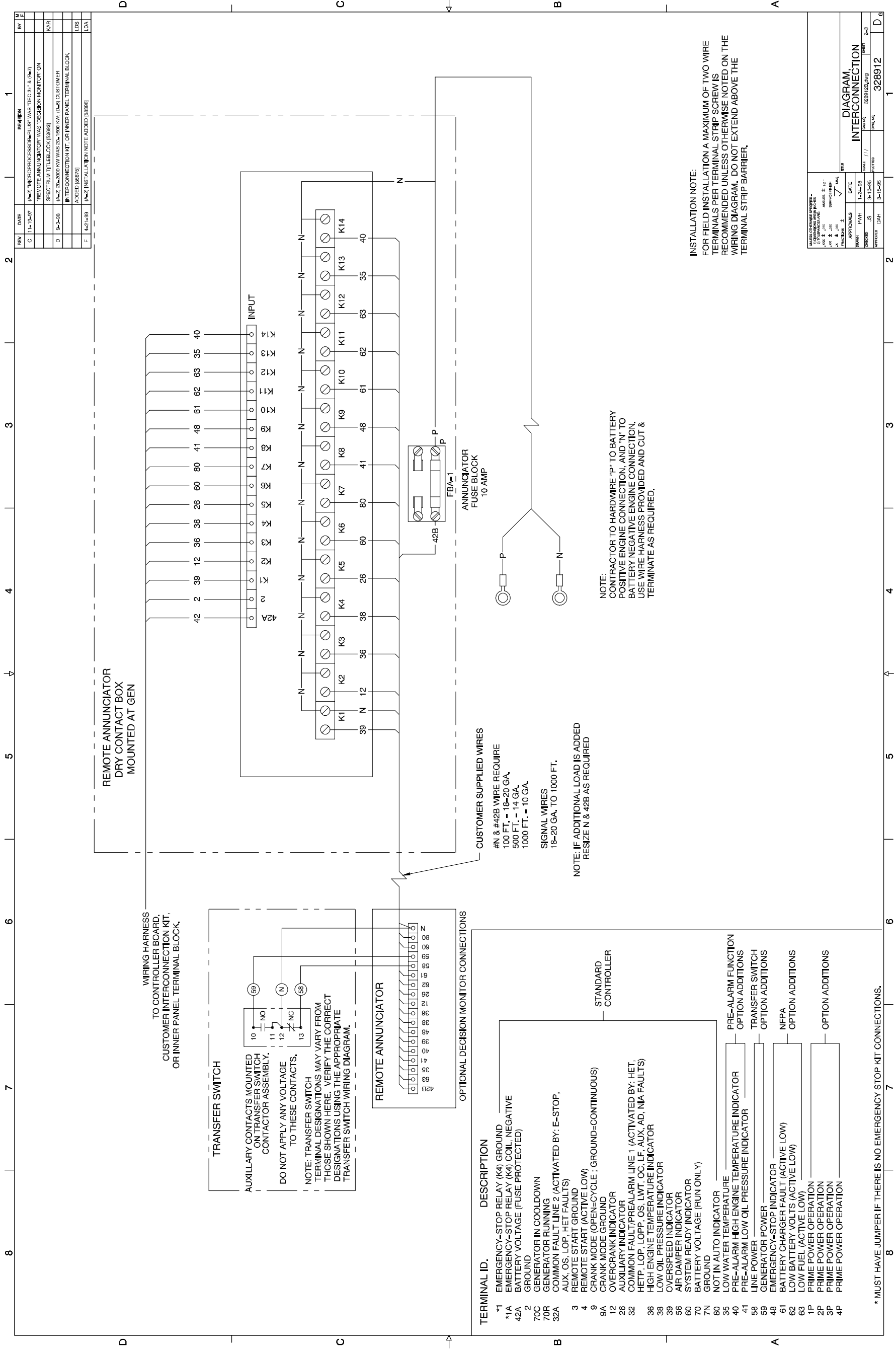
DESIGNED	DATE	BY	REVISION

DESIGNED	DATE	BY	REVISION

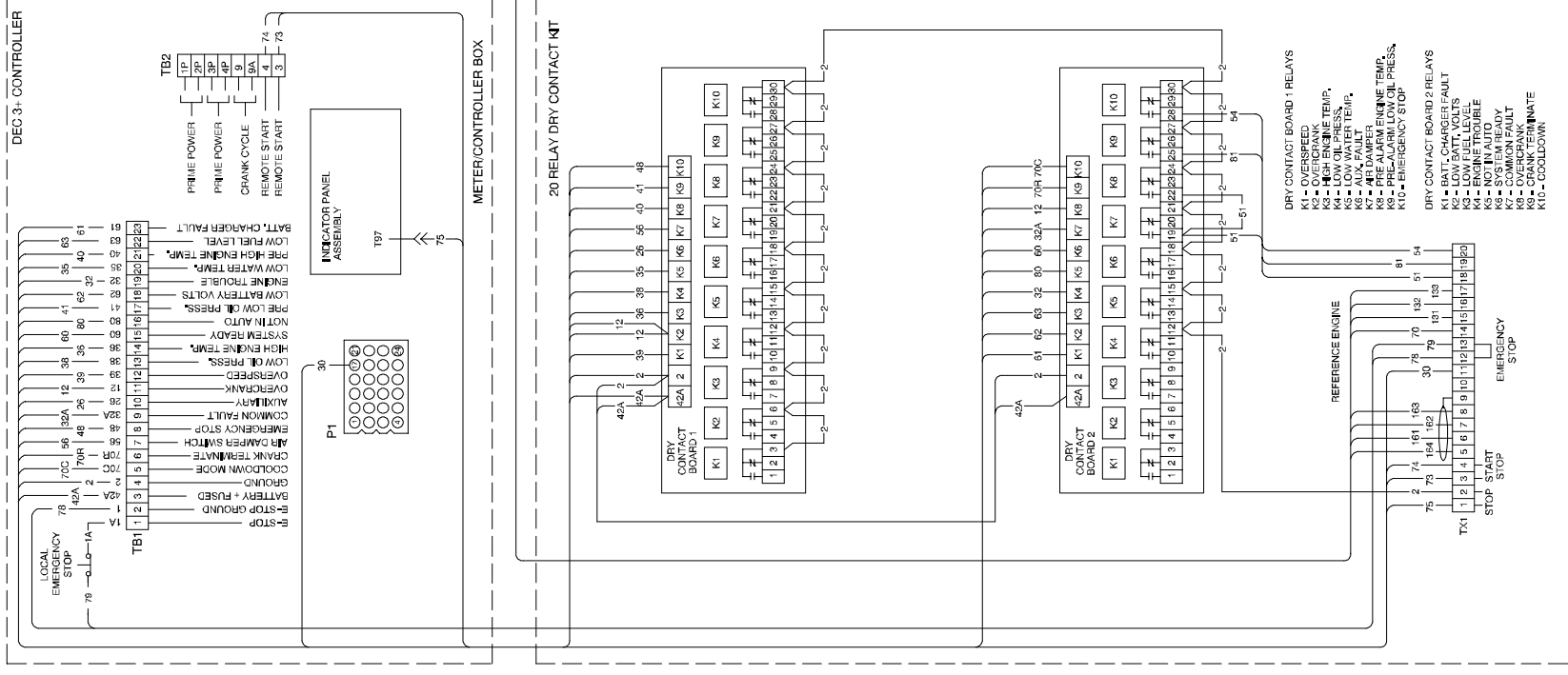
Decision-Maker™ 550 Controller, Point-to-Point Wiring Diagram, Sheet 2, GM17689B-



**Decision-Maker™ 3+ Controller, Accessory Connections, Sheet 1, 328912A-F**



REV	DATE	REVISION	BY
A	11-04-96	SHEET 3 OF 3 ADDED 456941	KAR
B	11-14-97	(A-2) MICROPROCESSOR PLUS WAS "DEC 3+" ON SPECTRUM TITLE BLOCK (R5829)	CAF
F	4-21-98	(A-2) INSTALLATION NOTE ADDED (3888)	LJA

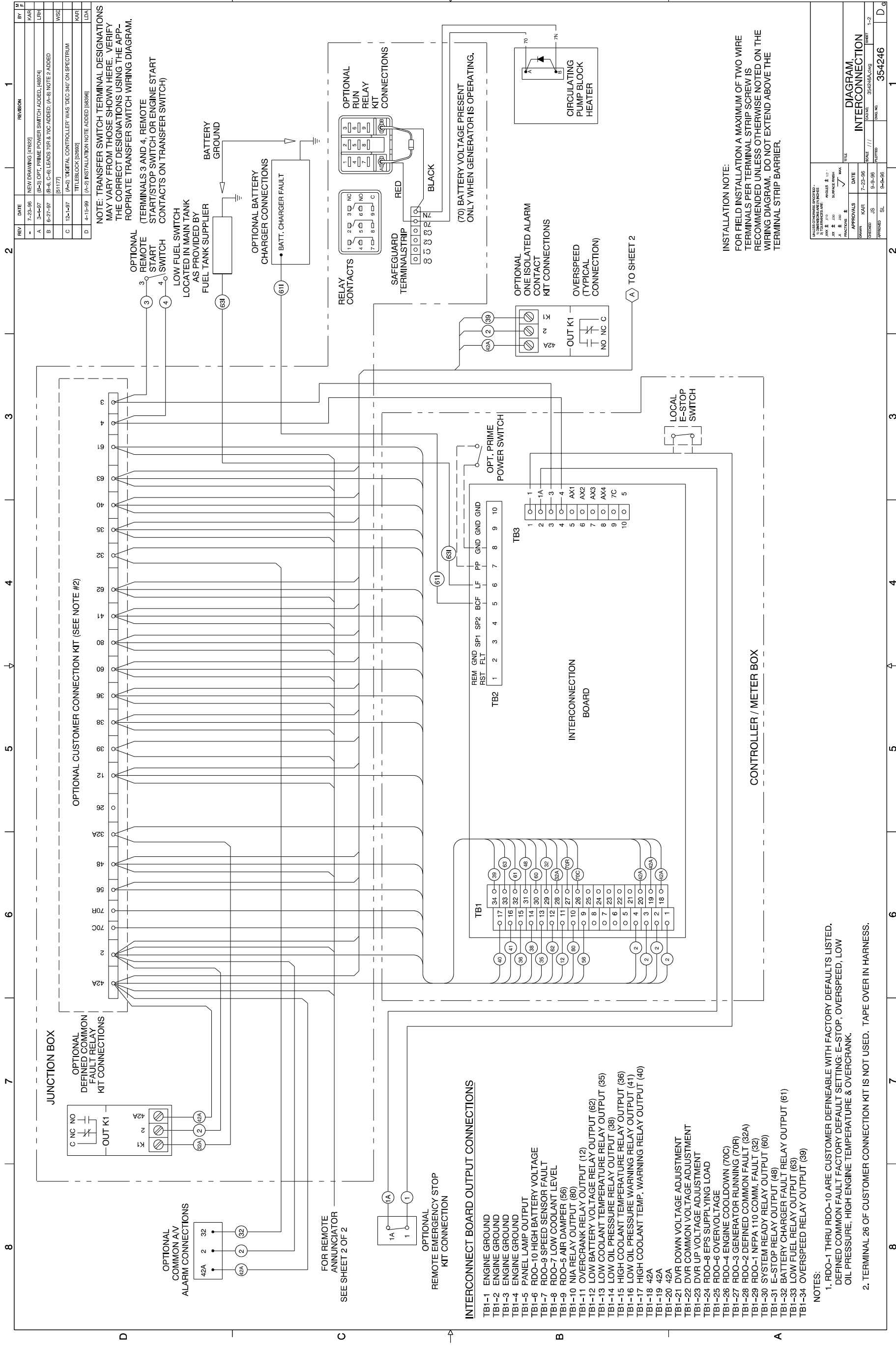


**INSTALLATION NOTE:**  
 FOR FIELD INSTALLATION A MAXIMUM OF TWO WIRE TERMINALS PER TERMINAL STRIP SCREW IS RECOMMENDED UNLESS OTHERWISE NOTED ON THE WIRING DIAGRAM. DO NOT EXTEND ABOVE THE TERMINAL STRIP BARRIER.

APPROVALS	DATE	WIP
DESIGNED BY: J.S.	10-10-96	SCALE: 1/1
DRAWN BY: D.H.	10-10-96	DATE: 10-10-96
CHECKED BY: J.S.	10-10-96	REVISION: 1
APPROVED BY: D.H.	10-10-96	PROJECT: 328912

**DIAGRAM INTERCONNECTION SHEET 3-3**

**Decision-Maker™ 3+ Controller, Accessory Connections, Sheet 3, 328912C-F**



OPTIONAL CUSTOMER CONNECTION KIT (SEE NOTE #2)

JUNCTION BOX

OPTIONAL DEFINED COMMON FAULT RELAY KIT CONNECTIONS

OPTIONAL COMMON AV ALARM CONNECTIONS

FOR REMOTE ANNUNCIATOR SEE SHEET 2 OF 2

OPTIONAL REMOTE EMERGENCY STOP KIT CONNECTION

**INTERCONNECT BOARD OUTPUT CONNECTIONS**

- TB1-1 ENGINE GROUND
- TB1-2 ENGINE GROUND
- TB1-3 ENGINE GROUND
- TB1-4 ENGINE GROUND
- TB1-5 PANEL LAMP OUTPUT
- TB1-6 RDO-10 HIGH BATTERY VOLTAGE
- TB1-7 RDO-9 SPEED SENSOR FAULT
- TB1-8 RDO-7 LOW COOLANT LEVEL
- TB1-9 RDO-5 AIR DAMPER (56)
- TB1-10 NIA RELAY OUTPUT (80)
- TB1-11 OVERCRANK RELAY OUTPUT (12)
- TB1-12 LOW BATTERY VOLTAGE RELAY OUTPUT (62)
- TB1-13 LOW COOLANT TEMPERATURE RELAY OUTPUT (35)
- TB1-14 LOW OIL PRESSURE RELAY OUTPUT (38)
- TB1-15 HIGH COOLANT TEMPERATURE RELAY OUTPUT (36)
- TB1-16 LOW OIL PRESSURE WARNING RELAY OUTPUT (41)
- TB1-17 HIGH COOLANT TEMP. WARNING RELAY OUTPUT (40)
- TB1-18 42A
- TB1-19 42A
- TB1-20 42A
- TB1-21 DVR DOWN VOLTAGE ADJUSTMENT
- TB1-22 DVR COMMON VOLTAGE ADJUSTMENT
- TB1-23 DVR UP VOLTAGE ADJUSTMENT
- TB1-24 RDO-8 EPS SUPPLYING LOAD
- TB1-25 RDO-6 OVERVOLTAGE
- TB1-26 RDO-4 ENGINE COOLDOWN (70C)
- TB1-27 RDO-3 GENERATOR RUNNING (70R)
- TB1-28 RDO-2 DEFINED COMMON FAULT (32A)
- TB1-29 RDO-1 NEPA 110 COMM. FAULT (32)
- TB1-30 SYSTEM READY RELAY OUTPUT (60)
- TB1-31 E-STOP RELAY OUTPUT (48)
- TB1-32 BATTERY CHARGER FAULT RELAY OUTPUT (61)
- TB1-33 LOW FUEL RELAY OUTPUT (63)
- TB1-34 OVERSPEED RELAY OUTPUT (39)

- NOTES:
1. RDO-1 THRU RDO-10 ARE CUSTOMER DEFINEABLE WITH FACTORY DEFAULTS LISTED. DEFINED COMMON FAULT FACTORY DEFAULT SETTING: E-STOP, OVERSPEED, LOW OIL PRESSURE; HIGH ENGINE TEMPERATURE & OVERCRANK.
  2. TERMINAL 26 OF CUSTOMER CONNECTION KIT IS NOT USED. TAPE OVER IN HARNESS.

NOTE: TRANSFER SWITCH TERMINAL DESIGNATIONS MAY VARY FROM THOSE SHOWN HERE. VERIFY THE CORRECT DESIGNATIONS USING THE APPROPRIATE TRANSFER SWITCH WIRING DIAGRAM. (TERMINALS 3 AND 4. REMOTE START/STOP SWITCH OR ENGINE START CONTACTS ON TRANSFER SWITCH)

OPTIONAL REMOTE START SWITCH LOCATED IN MAIN TANK AS PROVIDED BY FUEL TANK SUPPLIER

LOW FUEL SWITCH

OPTIONAL BATTERY CHARGER CONNECTIONS

OPTIONAL RUN RELAY KIT CONNECTIONS

SAFEGUARD TERMINAL STRIP

RELAY CONTACTS

OPTIONAL ONE ISOLATED ALARM CONTACT KIT CONNECTIONS

OVERSPEED (TYPICAL CONNECTION)

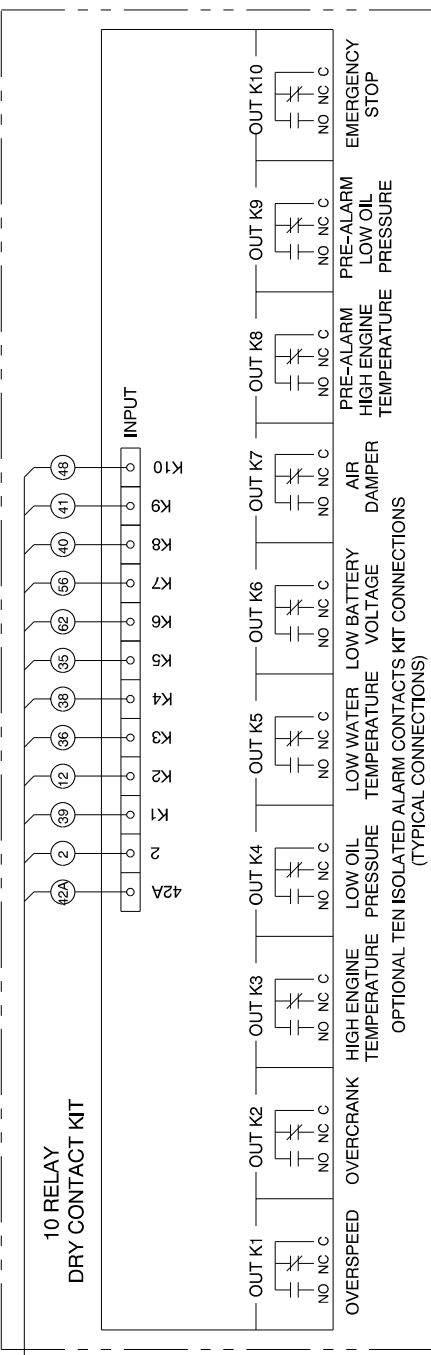
CIRCULATING PUMP BLOCK HEATER

(70) BATTERY VOLTAGE PRESENT ONLY WHEN GENERATOR IS OPERATING.

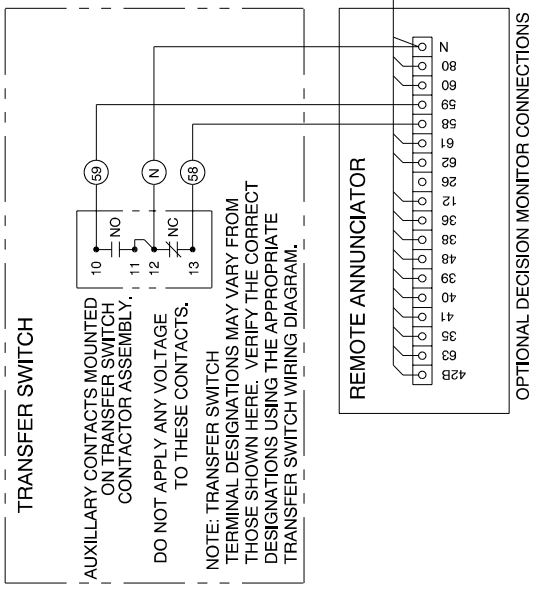
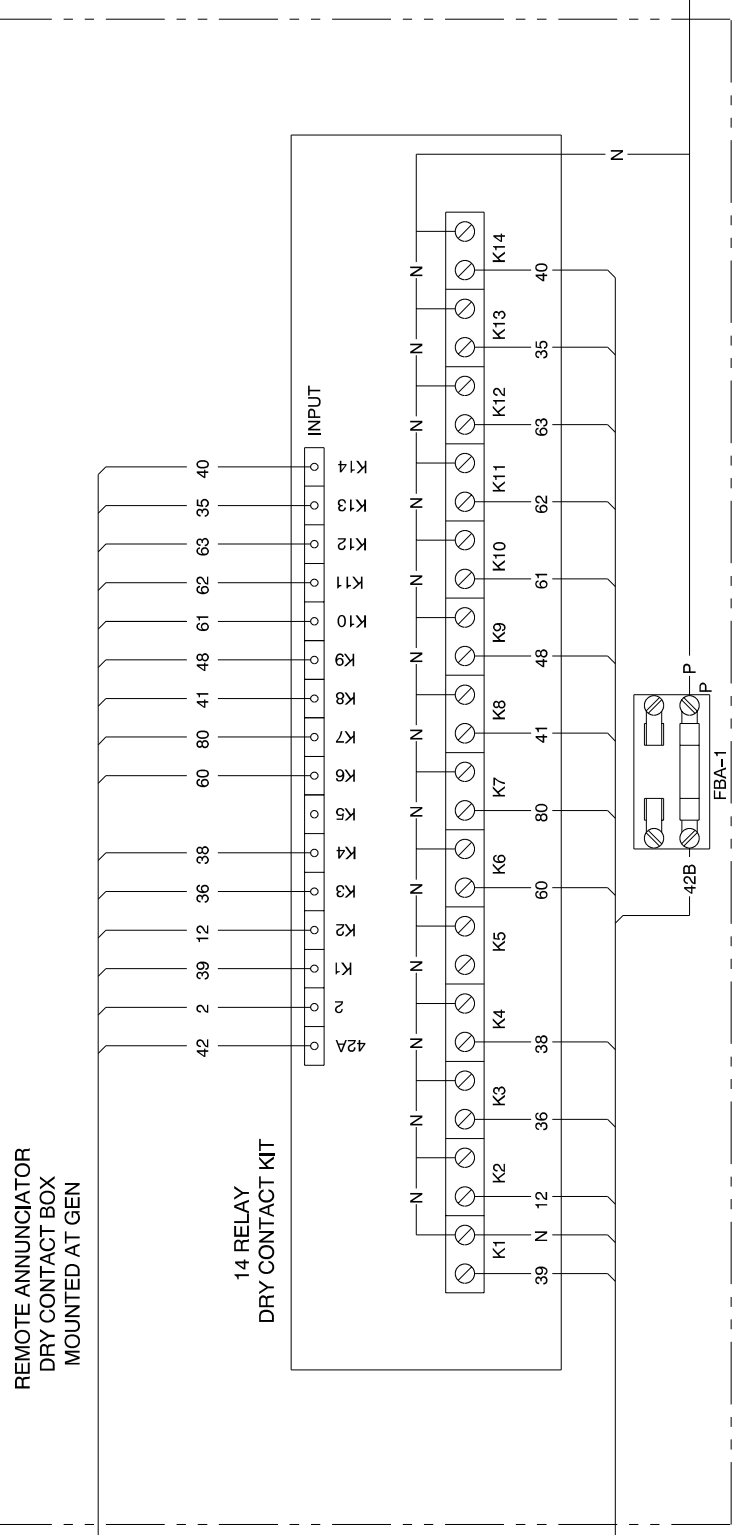
INSTALLATION NOTE:  
FOR FIELD INSTALLATION A MAXIMUM OF TWO WIRE TERMINALS PER TERMINAL STRIP SCREW IS RECOMMENDED UNLESS OTHERWISE NOTED ON THE WIRING DIAGRAM. DO NOT EXTEND ABOVE THE TERMINAL STRIP BARRIER.

DATE	7-22-06	REVISED	DATE	9-3-06
BY	KAR	BY	SL	
CHK		CHK		
APP		APP		
DRN		DRN		
DES		DES		
PRO		PRO		
FILE		FILE		
<b>DIAGRAM, INTERCONNECTION</b>				
DRAWN		DATE		7-22-06
CHECKED		SCALE		1/1
APPROVED		SHEET		1-2
PROJECT		PART NO.		354246A-D
SHEET		REV		1-2

REV	DATE	REVISION	BY
-	7-25-96	NEW DRAWING (17622)	KAR
A	12-1-97	(A-2) "DIGITAL CONTROLLER" WAS "DEC 340" ON SPECTRUM	KAR
		"FILEBLOCK" (5696)	KAR
D	4-15-98	(C-2) INSTALLATION NOTE ADDED (56398)	LDA



**INSTALLATION NOTE:**  
 FOR FIELD INSTALLATION A MAXIMUM OF TWO WIRE TERMINALS PER TERMINAL STRIP SCREW IS RECOMMENDED UNLESS OTHERWISE NOTED ON THE WIRING DIAGRAM. DO NOT EXTEND ABOVE THE TERMINAL STRIP BARRIER.



**CUSTOMER SUPPLIED WIRES**

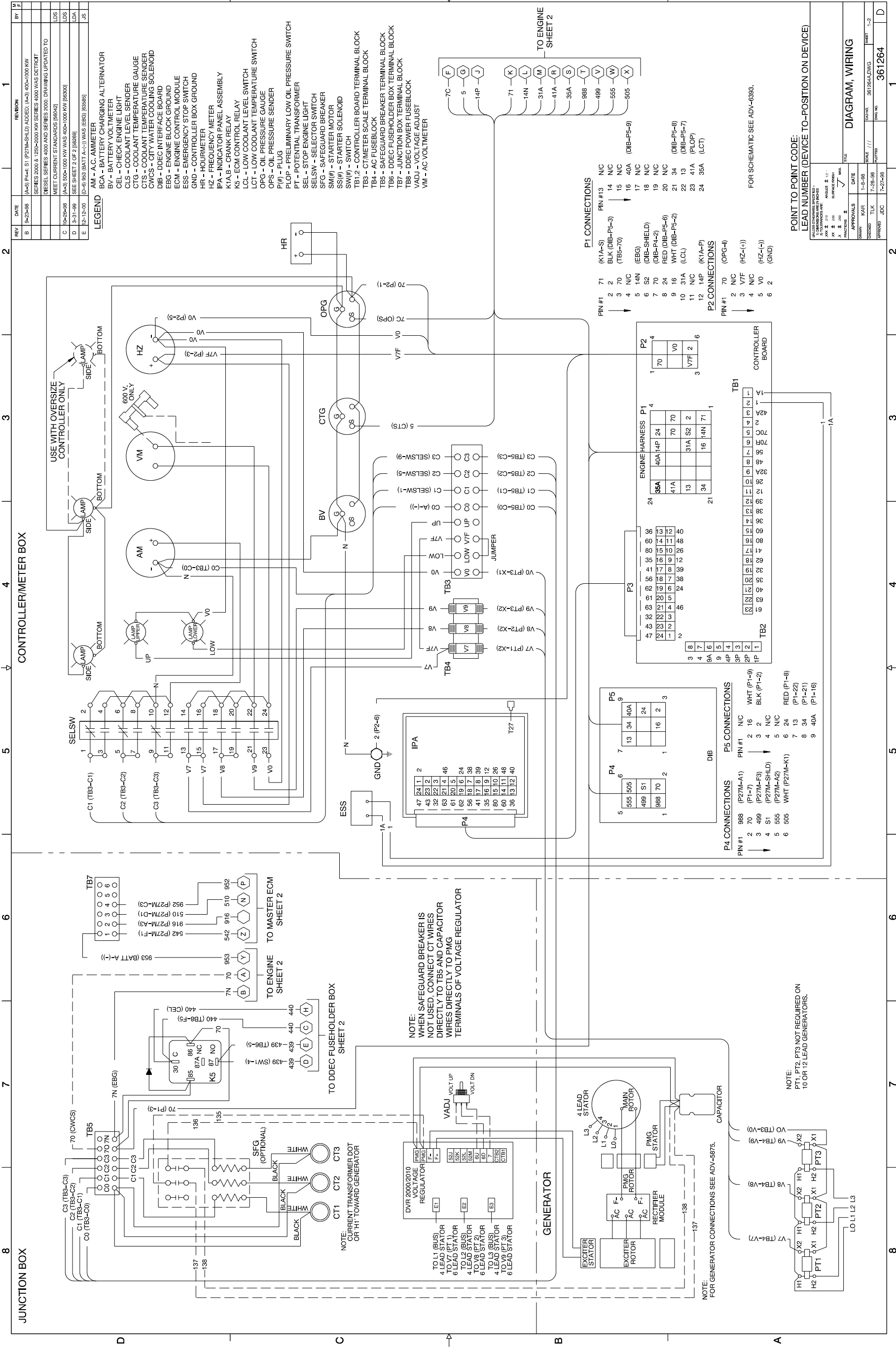
#N & #42B WIRE REQUIRE  
 100 FT. - 18-20 GA.  
 500 FT. - 14 GA.  
 1000 FT. - 10 GA.

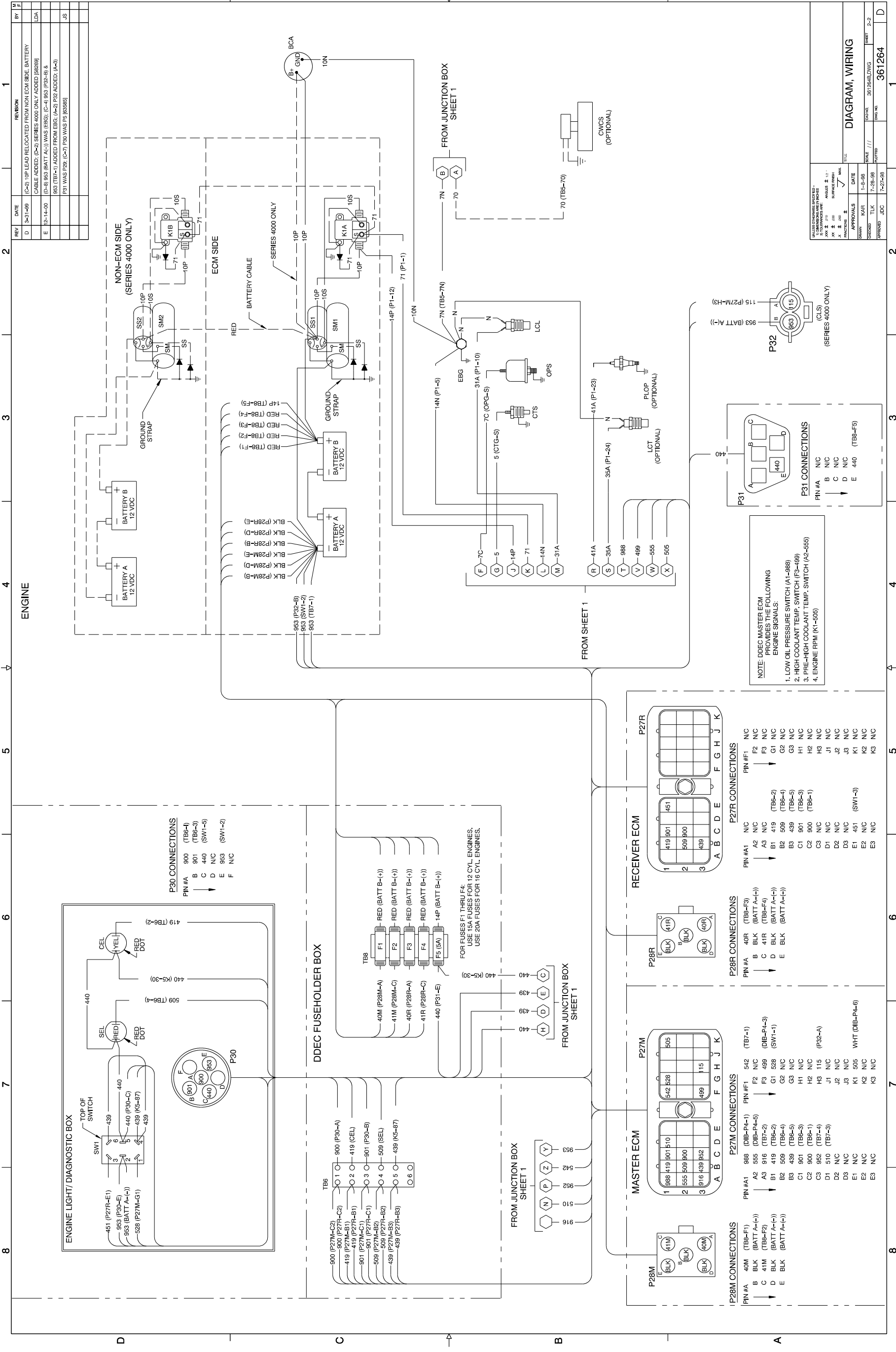
SIGNAL WIRES  
 18-20 GA. TO 1000 FT.

NOTE: IF ADDITIONAL LOAD IS ADDED RESIZE N & 42B AS REQUIRED

**NOTE:**  
 CONTRACTOR TO HARDWIRE "P" TO BATTERY POSITIVE ENGINE CONNECTION, AND "N" TO BATTERY NEGATIVE ENGINE CONNECTION. USE WIRE HARNESS PROVIDED AND CUT & TERMINATE AS REQUIRED.

APPROVALS	DATE	TITLE
DRAWN: KAR	7-25-96	DIAGRAM, INTERCONNECTION
CHECKED: JS	9-3-96	
PREPARED: SL	9-3-96	





REV	DATE	REVISION	BY
D	3-11-98	(C-2) UPL LEAD RELOCATED FROM NON-ECM SIDE BATTERY CABLE ADDED: (C-3) SERIES 4000 ONLY ADDED (6828)	LDL
E	3-2-16-00	(D-8) 953 (BATT A(-)) WAS (E6G); (C-4) 953 (P28-B) & (D-8) 953 (BATT A(-)) WAS (E6G); (C-4) 953 (P28-B) & (D-8) 953 (BATT A(-)) WAS (E6G); (A-2) P32 ADDED: (A-3) P31 WAS P28; (C-7) P30 WAS P5 (6858)	JS

APPROVALS		DATE	SCALE	FIG.
DESIGNED	TLK	7-28-98	1:1	1
DRAWN	KAR	7-28-98	1:1	1
CHECKED	JDC	7-27-98	1:1	1
APPROVED	JDC	7-27-98	1:1	1

P32 CONNECTIONS (SERIES 4000 ONLY)	
PIN #A	N/C
B	N/C
C	N/C
D	N/C
E	440 (TB6-F5)

P30 CONNECTIONS	
PIN #A	900 (TB6-4)
B	901 (TB6-3)
C	440 (SW1-5)
D	N/C
E	953 (SW1-2)
F	N/C

P27M CONNECTIONS	
PIN #A1	988 (DIB-P4-1)
A2	555 (DIB-P4-5)
A3	916 (TB7-2)
B1	419 (TB6-2)
B2	509 (TB6-4)
B3	439 (TB6-5)
C1	901 (TB6-3)
C2	900 (TB6-5)
C3	952 (TB7-4)
D1	510 (TB7-3)
D2	N/C
D3	N/C
E1	N/C
E2	N/C
E3	N/C

P27R CONNECTIONS	
PIN #A1	N/C
A2	N/C
A3	N/C
B1	419 (TB6-2)
B2	509 (TB6-4)
B3	439 (TB6-5)
C1	901 (TB6-3)
C2	900 (TB6-5)
C3	N/C
D1	N/C
D2	N/C
D3	N/C
E1	451 (SW1-3)
E2	N/C
E3	N/C

P28M CONNECTIONS	
PIN #A	40M (TB8-F1)
B	BLK (BATT A(-))
C	41M (TB8-F2)
D	BLK (BATT A(-))
E	BLK (BATT A(-))

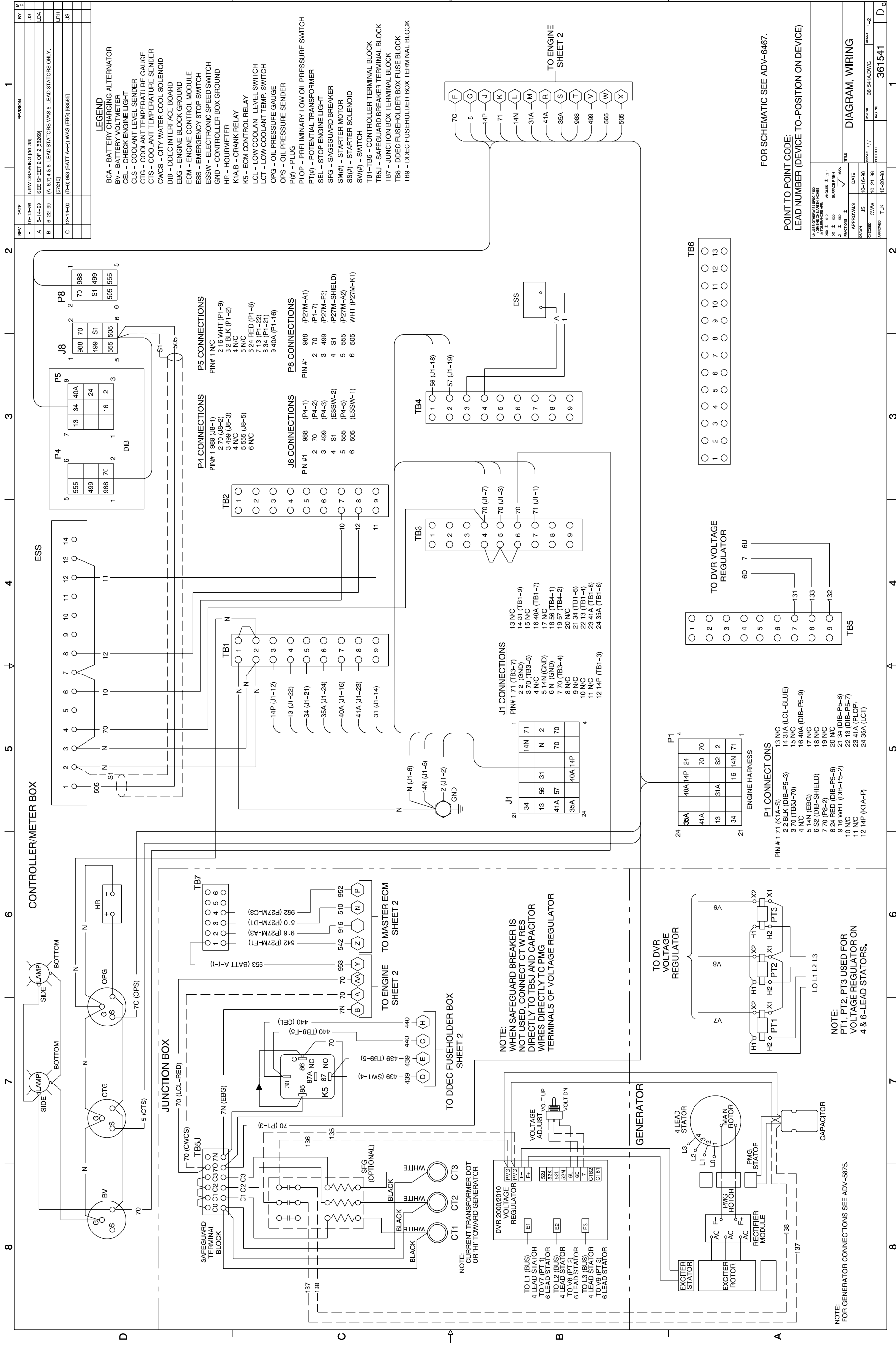
P28R CONNECTIONS	
PIN #A	40R (TB8-F3)
B	BLK (BATT A(-))
C	41R (TB8-F4)
D	BLK (BATT A(-))
E	BLK (BATT A(-))

P27M CONNECTIONS	
PIN #A1	988 (DIB-P4-1)
A2	555 (DIB-P4-5)
A3	916 (TB7-2)
B1	419 (TB6-2)
B2	509 (TB6-4)
B3	439 (TB6-5)
C1	901 (TB6-3)
C2	900 (TB6-5)
C3	952 (TB7-4)
D1	510 (TB7-3)
D2	N/C
D3	N/C
E1	N/C
E2	N/C
E3	N/C

P27R CONNECTIONS	
PIN #A1	N/C
A2	N/C
A3	N/C
B1	419 (TB6-2)
B2	509 (TB6-4)
B3	439 (TB6-5)
C1	901 (TB6-3)
C2	900 (TB6-5)
C3	N/C
D1	N/C
D2	N/C
D3	N/C
E1	451 (SW1-3)
E2	N/C
E3	N/C







**REVISION**

REV	DATE	DESCRIPTION	BY	CHK
-	10-15-08	NEW DRAWING (861138)	J.S.	
A	5-14-09	SEE SHEET 2 OF 2 (86288)	J.S.	
B	5-25-09	(A-E) 7, 4 & 6-LEAD STATOR WAS 6-LEAD STATOR ONLY.	J.S.	
C	7-2-10	(D-6) 83 (BATT A-1) WAS (EBG) (8336)	J.S.	
		(E-2) 13	J.S.	

**LEGEND**

- BCA - BATTERY CHARGING ALTERNATOR
- BV - BATTERY VOLTMETER
- CEL - CHECK ENGINE LIGHT
- CLS - COOLANT LEVEL SENDER
- CTG - COOLANT TEMPERATURE GAUGE
- CTS - COOLANT TEMPERATURE SENDER
- CWCS - CITY WATER COOL SOLENOID
- DIB - DDEC INTERFACE BOARD
- EBG - ENGINE BLOCK GROUND
- ECM - ENGINE CONTROL MODULE
- ESS - EMERGENCY STOP SWITCH
- ESSW - ELECTRONIC SPEED SWITCH
- GND - CONTROLLER BOX GROUND
- HR - HOURMETER
- K1A - CRANK RELAY
- K5 - ECM CONTROL RELAY
- LCL - LOW COOLANT LEVEL SWITCH
- LCT - LOW COOLANT TEMP. SWITCH
- OPG - OIL PRESSURE GAUGE
- OPFS - OIL PRESSURE SENDER
- PI(#)- PLUG
- PLOF - PRELIMINARY LOW OIL PRESSURE SWITCH
- PT(#)- POTENTIAL TRANSFORMER
- SEL - STOP ENGINE LIGHT
- SFG - SAGEGUARD BREAKER
- SM(#)- STARTER MOTOR
- SS(#)- STARTER SOLENOID
- SW(#)- SWITCH
- TB1-TB6 - CONTROLLER TERMINAL BLOCK
- TB5J - SAFEGUARD BREAKER TERMINAL BLOCK
- TB7 - JUNCTION BOX TERMINAL BLOCK
- TB8 - DDEC FUSEHOLDER BOX FUSE BLOCK
- TB8 - DDEC FUSEHOLDER BOX TERMINAL BLOCK

**P4 CONNECTIONS**

PIN#	1	2	3	4	5	6
WIRE	1988 (J8-1)	270 (J8-2)	469 (J8-3)	4 NC	555 (J8-5)	6 NC

**P5 CONNECTIONS**

PIN#	1	2	3	4	5	6	7	8	9
WIRE	1 NC	2 14 WHT (P1-9)	3 2 BLK (P1-2)	4 NC	5 NC	6 24 RED (P1-8)	7 13 (P1-22)	8 34 (P1-21)	9 40A (P1-16)

**J8 CONNECTIONS**

PIN #1	988 (P27M-A1)	270 (P1-7)	3499 (P27M-F3)	4 S1 (P27M-SHIELD)	5 555 (P27M-A2)	6 505 WHT (P27M-K1)
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**J1 CONNECTIONS**

PIN#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
WIRE	13 NC	14 31 (TB1-9)	15 NC	16 40A (TB1-7)	17 NC	18 56 (TB4-1)	19 57 (TB4-2)	20 NC (TB1-5)	21 34 (TB1-5)	22 13 (TB1-9)	23 11 (TB1-9)	24 35A (TB1-6)	1 NC	2 2 (GND)	3 70 (TB3-5)	4 NC	5 14N (GND)	6 N (GND)	7 70 (TB3-4)	8 NC	9 14N (J1-5)	10 40A (J1-2)	11 NC	12 14P (TB1-3)

**P1 CONNECTIONS**

PIN #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
WIRE	13 NC	14 31A (LCL-BLUE)	15 NC	16 40A (DIB-P5-9)	17 NC	18 NC	19 NC	20 NC	21 34 (DIB-P5-8)	22 13 (DIB-P5-7)	23 41A (PLOP)	24 35A (LCT)	1 NC	2 2 (GND)	3 70 (TB3-5)	4 NC	5 14N (GND)	6 N (GND)	7 70 (TB3-4)	8 NC	9 14N (J1-5)	10 40A (J1-2)	11 NC	12 14P (TB1-3)

**TB2 CONNECTIONS**

Terminal	1	2	3	4	5	6	7	8	9
WIRE	14P (J1-12)	13 (J1-22)	34 (J1-21)	35A (J1-24)	40A (J1-16)	41A (J1-23)	31 (J1-14)	14N (J1-5)	40A (J1-2)

**TB3 CONNECTIONS**

Terminal	1	2	3	4	5	6	7	8	9
WIRE	13 NC	14 31 (TB1-9)	15 NC	16 40A (TB1-7)	17 NC	18 56 (TB4-1)	19 57 (TB4-2)	20 NC (TB1-5)	21 34 (TB1-5)

**TB4 CONNECTIONS**

Terminal	1	2	3	4	5	6	7	8	9
WIRE	56 (J1-18)	57 (J1-19)	70 (J1-7)	70 (J1-3)	71 (J1-1)	70 (J1-1)	70 (J1-1)	70 (J1-1)	70 (J1-1)

**TB5 CONNECTIONS**

Terminal	1	2	3	4	5	6	7	8	9
WIRE	6D	7	6U	131	133	132	131	133	132

**TB6 CONNECTIONS**

Terminal	1	2	3	4	5	6	7	8	9	10	11	12	13
WIRE	1	2	3	4	5	6	7	8	9	10	11	12	13

**TB8 CONNECTIONS**

Terminal	7C	5	4P	J	71	14N	31A	41A	35A	988	499	555	505
WIRE	7C	5	4P	J	71	14N	31A	41A	35A	988	499	555	505

**NOTE:** WHEN SAFEGUARD BREAKER IS NOT USED, CONNECT CT WIRES DIRECTLY TO TB5J AND CAPACITOR WIRES DIRECTLY TO PMG TERMINALS OF VOLTAGE REGULATOR

**NOTE:** FOR GENERATOR CONNECTIONS SEE ADV-5875.

**NOTE:** CURRENT TRANSFORMER DOT OR HIT TOWARD GENERATOR

**NOTE:** PT1, PT2, PT3 USED FOR VOLTAGE REGULATOR ON 4 & 6-LEAD STATORS.

**NOTE:** FOR SCHEMATIC SEE ADV-6467.

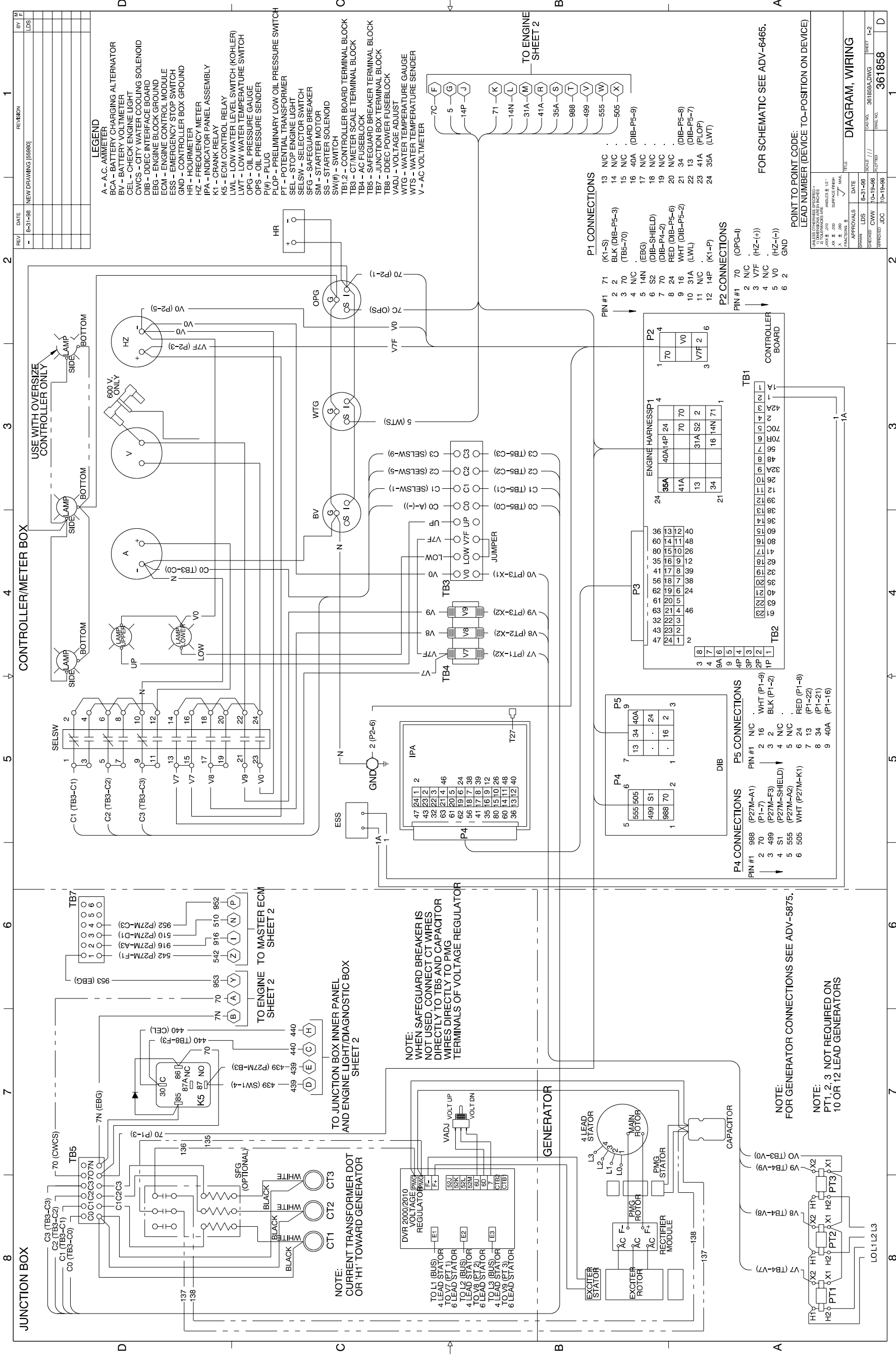
**POINT TO POINT CODE:**

**LEAD NUMBER (DEVICE TO-POSITION ON DEVICE)**

**DIAGRAM: WIRING**

DATE: 10-15-08  
 DRAWN: J.S.  
 CHECKED: C.W.V.  
 APPROVED: J.S.  
 TITLE: 361541A.DWG  
 SHEET: 1-2





- LEGEND**
- A - A.C. AMMETER
  - BCA - BATTERY CHARGING ALTERNATOR
  - BV - BATTERY VOLTMETER
  - CEL - CHECK ENGINE LIGHT
  - CWCS - CITY WATER COOLING SOLENOID
  - DIB - DDEC INTERFACE BOARD
  - EBG - ENGINE BLOCK GAUGE
  - ECM - ENGINE CONTROL MODULE
  - ESS - EMERGENCY STOP SWITCH
  - GND - CONTROLLER BOX GROUND
  - HR - HOURMETER
  - HZ - FREQUENCY METER
  - IPA - INDICATOR PANEL ASSEMBLY
  - K1 - CRANK RELAY
  - K5 - ECM CONTROL RELAY
  - LWL - LOW WATER LEVEL SWITCH (KOHLER)
  - LWT - LOW WATER TEMPERATURE SWITCH
  - OPG - OIL PRESSURE GAUGE
  - OPS - OIL PRESSURE SENDER
  - P(#) - PLUG
  - PLOP - PRELIMINARY LOW OIL PRESSURE SWITCH
  - PT - POTENTIAL TRANSFORMER
  - SEL - STOP ENGINE LIGHT
  - SELV - SELECTOR SWITCH
  - SFG - SAFEGUARD BREAKER
  - SM - STARTER MOTOR
  - SS - STARTER SOLENOID
  - SW(#)- SWITCH
  - TB1, 2 - CONTROLLER BOARD TERMINAL BLOCK
  - TB3 - CT/METER SCALE TERMINAL BLOCK
  - TB4 - AC FUSEBLOCK
  - TB5 - SAFEGUARD BREAKER TERMINAL BLOCK
  - TB7 - JUNCTION BOX TERMINAL BLOCK
  - TB8 - DDEC POWER FUSEBLOCK
  - VADJ - VOLTAGE ADJUST
  - WTS - WATER TEMPERATURE GAUGE
  - WTS - WATER TEMPERATURE SENDER
  - V - AC VOLTMETER

**P1 CONNECTIONS**

PIN #1	71	13	N/C
2	2	14	N/C
3	70	15	N/C
4	N/C	16	40A (DIB-P5-9)
5	14N (EBG)	17	N/C
6	S2 (DIB-SHIELD)	18	N/C
7	70 (DIB-P4-2)	19	N/C
8	24 (DIB-P5-6)	20	N/C
9	16 (DIB-P5-2)	21	34 (DIB-P5-8)
10	31A (LWL)	22	13 (DIB-P5-7)
11	N/C	23	41A (PLOP)
12	14P (K1-P)	24	35A (LWT)

**P2 CONNECTIONS**

PIN #1	70	(OPG-I)
2	N/C	
3	V7F	(HZ-(-))
4	N/C	
5	V0	(HZ-(-))
6	2	GND

**P3 ENGINE HARNESS P1**

1	70
2	V0
3	V7F 2
4	
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13	31A S2 2
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16	14N 71
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**P4 CONNECTIONS**

PIN #1	988	(P27M-A1)
2	70	(P1-7)
3	499	(P27M-E3)
4	S1	(P27M-SHIELD)
5	555	(P27M-A2)
6	505	WHT (P27M-K1)

**P5 CONNECTIONS**

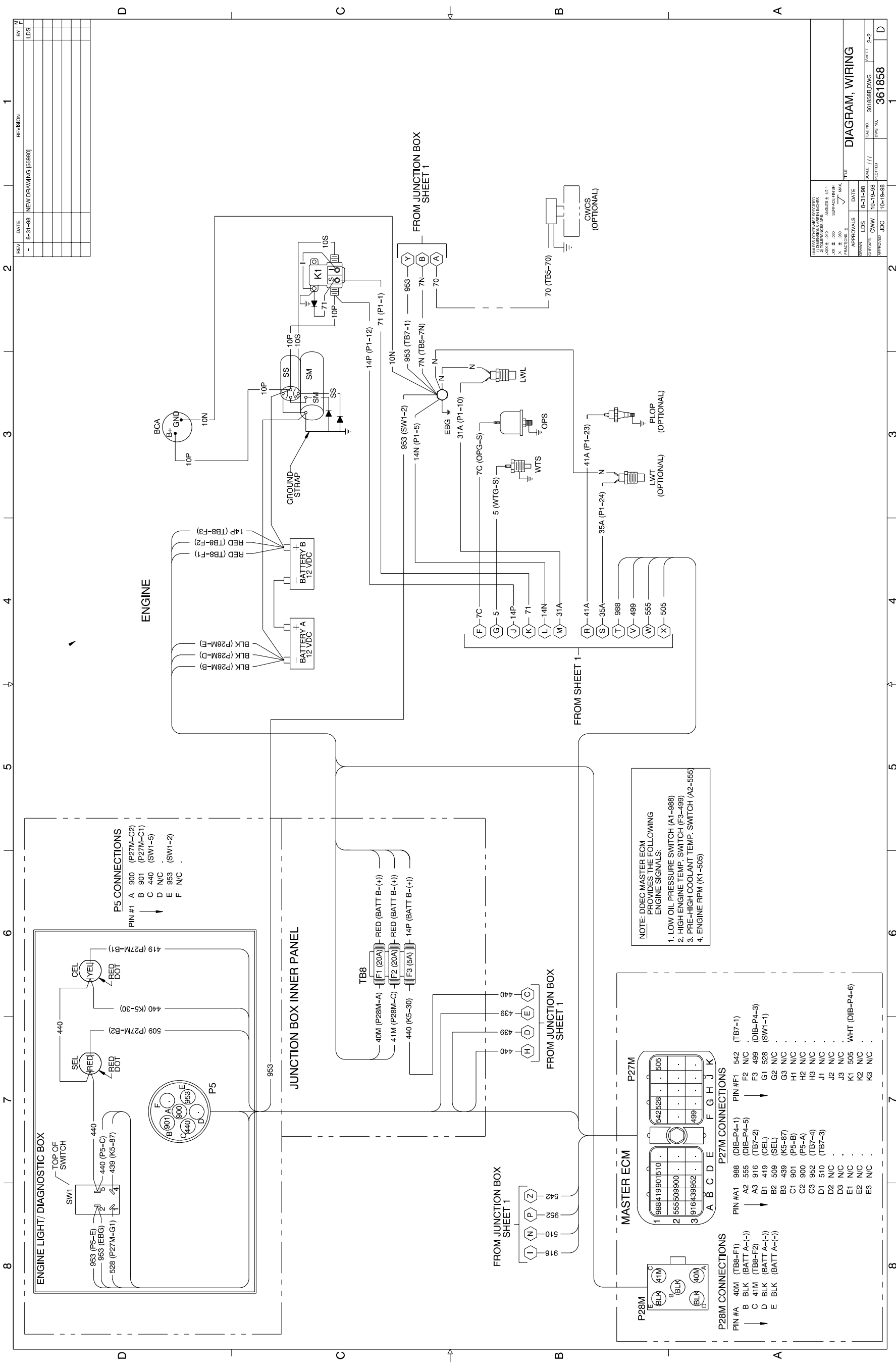
PIN #1	N/C	
2	16	WHT (P1-9)
3	2	BLK (P1-2)
4	N/C	
5	N/C	
6	24	RED (P1-8)
7	13	(P1-22)
8	34	(P1-21)
9	40A	(P1-16)

**POINT TO POINT CODE:**  
LEAD NUMBER (DEVICE TO-POSITION ON DEVICE)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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**DIAGRAM, WIRING**

DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
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DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
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SCALE	1/1
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TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
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TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
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DESIGN	LDS
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TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
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DESIGN	LDS
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TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
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DESIGN	LDS
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TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
APPROVED	JDC
DESIGN	LDS
DRAWN	LDS
TITLE	DIAGRAM, WIRING
NO. IN SET	1-2
SHEET	1-2
DATE	8-31-98
SCALE	1/1
CHECKED	CWV
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DESIGN	LDS
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TITLE	DIAGRAM, WIRING

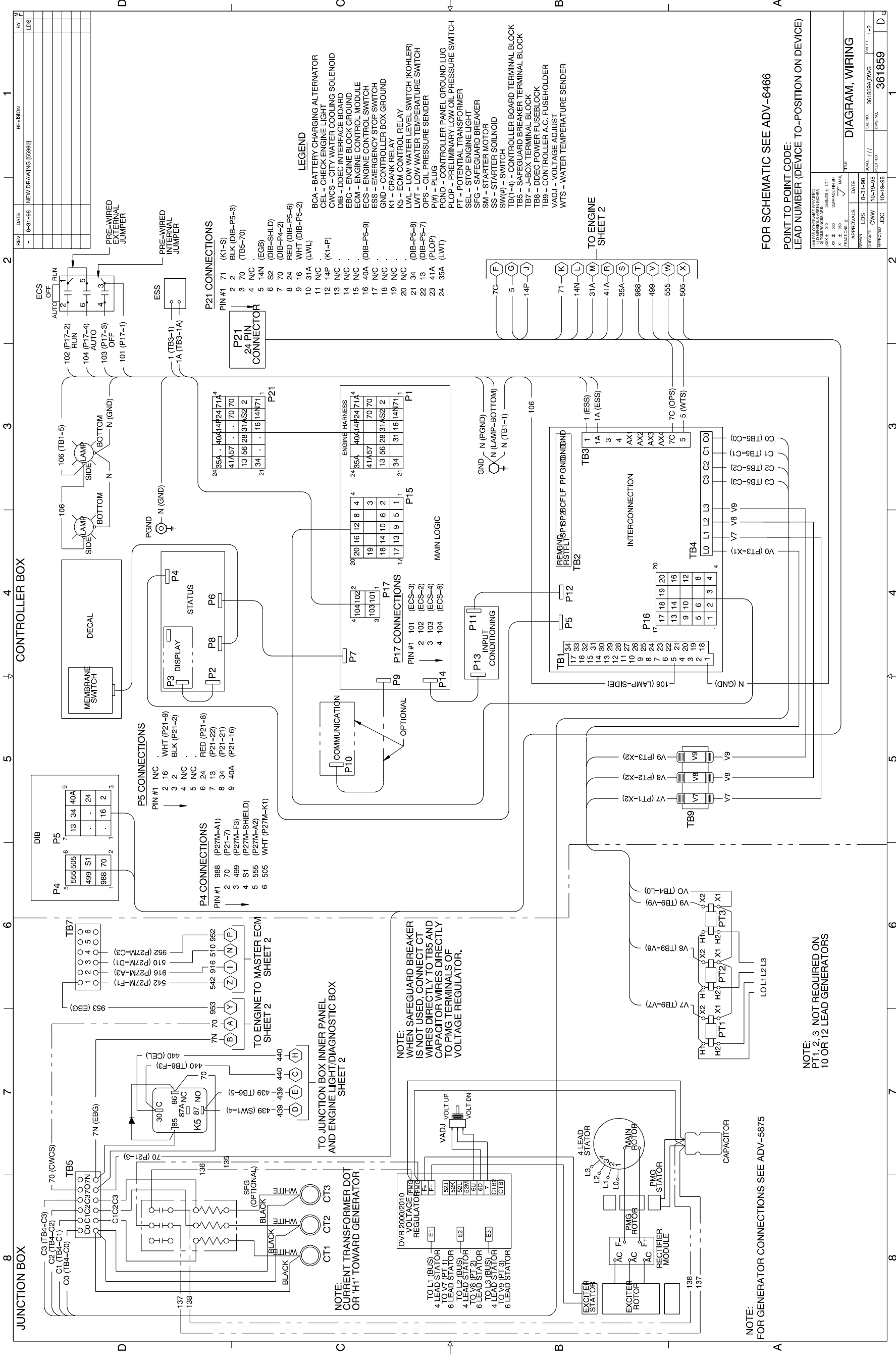


REV#		DATE	DESCRIPTION	BY	CHK
-		8-31-88	NEW DRAWING [65800]	LDS	

TITLE		DIAGRAM, WIRING
SCALE	1/1/1	SHEET 2-2
DRAWN	LDS	DATE 8-31-88
CHECKED	CHW	DATE 10-19-88
APPROVED	JDC	DATE 10-19-88
DRAWING NO.		361858
PROJECT NO.		1

Decision-Maker™ 3+ Controller, Point-to-Point Wiring Diagram, Sheet 2, 361858B-



NOTE:  
FOR GENERATOR CONNECTIONS SEE ADV-5875

NOTE:  
PT1, 2, 3 NOT REQUIRED ON  
10 OR 12 LEAD GENERATORS

NOTE:  
WHEN SAFEGUARD BREAKER  
IS NOT USED, CONNECT CT  
WIRES DIRECTLY TO TB5 AND  
CAPACITOR WIRES DIRECTLY  
TO PMG TERMINALS OF  
VOLTAGE REGULATOR.

TO JUNCTION BOX INNER PANEL  
AND ENGINE LIGHT/DIAGNOSTIC BOX  
SHEET 2

TO ENGINE TO MASTER ECM  
SHEET 2

FOR SCHEMATIC SEE ADV-6466

POINT TO POINT CODE:  
LEAD NUMBER (DEVICE TO-POSITION ON DEVICE)

RELEASE OPERATING PROCEDURE: 1. UNBOLT AND REMOVE INCHES 2. UNBOLT AND REMOVE INCHES 3. UNBOLT AND REMOVE INCHES 4. UNBOLT AND REMOVE INCHES 5. UNBOLT AND REMOVE INCHES 6. UNBOLT AND REMOVE INCHES 7. UNBOLT AND REMOVE INCHES 8. UNBOLT AND REMOVE INCHES 9. UNBOLT AND REMOVE INCHES 10. UNBOLT AND REMOVE INCHES 11. UNBOLT AND REMOVE INCHES 12. UNBOLT AND REMOVE INCHES 13. UNBOLT AND REMOVE INCHES 14. UNBOLT AND REMOVE INCHES 15. UNBOLT AND REMOVE INCHES 16. UNBOLT AND REMOVE INCHES 17. UNBOLT AND REMOVE INCHES 18. UNBOLT AND REMOVE INCHES 19. UNBOLT AND REMOVE INCHES 20. UNBOLT AND REMOVE INCHES 21. UNBOLT AND REMOVE INCHES 22. UNBOLT AND REMOVE INCHES 23. UNBOLT AND REMOVE INCHES 24. UNBOLT AND REMOVE INCHES 25. UNBOLT AND REMOVE INCHES 26. UNBOLT AND REMOVE INCHES 27. UNBOLT AND REMOVE INCHES 28. UNBOLT AND REMOVE INCHES 29. UNBOLT AND REMOVE INCHES 30. UNBOLT AND REMOVE INCHES 31. UNBOLT AND REMOVE INCHES 32. UNBOLT AND REMOVE INCHES 33. UNBOLT AND REMOVE INCHES 34. UNBOLT AND REMOVE INCHES 35. UNBOLT AND REMOVE INCHES 36. UNBOLT AND REMOVE INCHES 37. UNBOLT AND REMOVE INCHES 38. UNBOLT AND REMOVE INCHES 39. UNBOLT AND REMOVE INCHES 40. UNBOLT AND REMOVE INCHES 41. UNBOLT AND REMOVE INCHES 42. UNBOLT AND REMOVE INCHES 43. UNBOLT AND REMOVE INCHES 44. UNBOLT AND REMOVE INCHES 45. UNBOLT AND REMOVE INCHES 46. UNBOLT AND REMOVE INCHES 47. UNBOLT AND REMOVE INCHES 48. UNBOLT AND REMOVE INCHES 49. UNBOLT AND REMOVE INCHES 50. UNBOLT AND REMOVE INCHES 51. UNBOLT AND REMOVE INCHES 52. UNBOLT AND REMOVE INCHES 53. UNBOLT AND REMOVE INCHES 54. UNBOLT AND REMOVE INCHES 55. UNBOLT AND REMOVE INCHES 56. UNBOLT AND REMOVE INCHES 57. UNBOLT AND REMOVE INCHES 58. UNBOLT AND REMOVE INCHES 59. UNBOLT AND REMOVE INCHES 60. UNBOLT AND REMOVE INCHES 61. UNBOLT AND REMOVE INCHES 62. UNBOLT AND REMOVE INCHES 63. UNBOLT AND REMOVE INCHES 64. UNBOLT AND REMOVE INCHES 65. UNBOLT AND REMOVE INCHES 66. UNBOLT AND REMOVE INCHES 67. UNBOLT AND REMOVE INCHES 68. UNBOLT AND REMOVE INCHES 69. UNBOLT AND REMOVE INCHES 70. UNBOLT AND REMOVE INCHES 71. UNBOLT AND REMOVE INCHES 72. UNBOLT AND REMOVE INCHES 73. UNBOLT AND REMOVE INCHES 74. UNBOLT AND REMOVE INCHES 75. UNBOLT AND REMOVE INCHES 76. UNBOLT AND REMOVE INCHES 77. UNBOLT AND REMOVE INCHES 78. UNBOLT AND REMOVE INCHES 79. UNBOLT AND REMOVE INCHES 80. UNBOLT AND REMOVE INCHES 81. UNBOLT AND REMOVE INCHES 82. UNBOLT AND REMOVE INCHES 83. UNBOLT AND REMOVE INCHES 84. UNBOLT AND REMOVE INCHES 85. UNBOLT AND REMOVE INCHES 86. UNBOLT AND REMOVE INCHES 87. UNBOLT AND REMOVE INCHES 88. UNBOLT AND REMOVE INCHES 89. UNBOLT AND REMOVE INCHES 90. UNBOLT AND REMOVE INCHES 91. UNBOLT AND REMOVE INCHES 92. UNBOLT AND REMOVE INCHES 93. UNBOLT AND REMOVE INCHES 94. UNBOLT AND REMOVE INCHES 95. UNBOLT AND REMOVE INCHES 96. UNBOLT AND REMOVE INCHES 97. UNBOLT AND REMOVE INCHES 98. UNBOLT AND REMOVE INCHES 99. UNBOLT AND REMOVE INCHES 100. UNBOLT AND REMOVE INCHES		DATE	APPROVALS	TITLE
REV#	DATE	NEW DRAWING [5580]	RET/REV#	BY
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## Notes



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