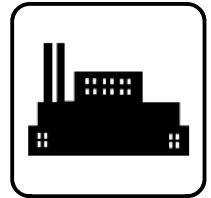


Wiring Diagrams

Industrial Generator Sets



Models:

25-150REZG

Controllers:

Decision-Maker® 3000

Decision-Maker® 550

Decision-Maker® 3+

KOHLER[®]
POWER SYSTEMS

ISO 9001
KOHLER
POWER SYSTEMS
NATIONALLY REGISTERED

TP-6712 4/10a

This manual provides wiring diagrams for the 25-150REZG generator sets equipped with one of the following controllers:

- Decision-Maker® 3000
- Decision-Maker® 550
- Decision-Maker® 3+ (40-150REZG)

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.

Service Assistance

For professional advice on generator set power requirements and conscientious service, please contact your nearest Kohler distributor or dealer.

- Consult the Yellow Pages under the heading Generators—Electric.
- Visit the Kohler Power Systems website at KohlerPower.com.
- Look at the labels and stickers on your Kohler product or review the appropriate literature or documents included with the product.
- Call toll free in the US and Canada 1-800-544-2444.
- Outside the US and Canada, call the nearest regional office.

Headquarters Europe, Middle East, Africa (EMEA)

Kohler Power Systems
3 rue de Brennus
93200 Saint Denis
France
Phone: (33) 1 49 178300
Fax: (33) 1 49 178301

Asia Pacific

Power Systems Asia Pacific Regional Office
Singapore, Republic of Singapore
Phone: (65) 6264-6422
Fax: (65) 6264-6455

China

North China Regional Office, Beijing
Phone: (86) 10 6518 7950
(86) 10 6518 7951
(86) 10 6518 7952
Fax: (86) 10 6518 7955

East China Regional Office, Shanghai
Phone: (86) 21 6288 0500
Fax: (86) 21 6288 0550

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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, the controller type, and the alternator

type on the Wiring Diagrams Reference chart to determine the wiring diagram numbers for your unit. Refer to Controller Identification for controller type identification, if necessary.

Wiring Diagram Cross-Reference

Generator Set Model No.	Hz	Generator Set Spec No.	Wiring Diagram Version No.
25REZG	50/60	GM69415-GA1,3,5,7,9,11	1
30REZG	50/60	GM69415-GA2,4,6,8,10,12	1
40REZG	50/60	GM66092-GA1,3,5	2
45REZG	50/60	GM66092-GA2,4,6	2
50REZG	50/60	GM66910-GA1,2,3	3
60REZG	50/60	GM66911-GA1,2,3	3
80REZG	50/60	GM66590-GA1,3,9	3
100REZG	50/60	GM66590-GA2,4,10	3
125REZG	50/60	GM65362-GA1,2,5	3
150REZG	50/60	GM64060-GA1	3

25/30REZG Wiring Diagrams Reference

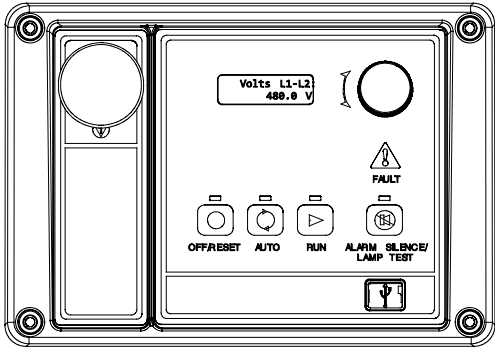
Controller Description	Version 1	Page
Decision-Maker® 550 Controller		
Point-to-Point Wiring Diagram		
Sheet 1	GM63941A-D	28
Sheet 2	GM63941B-D	29
Sheet 3	GM63941C-D	30
Schematic Diagram		
Sheet 1	ADV-7600A-D	11
Sheet 2	ADV-7600B-D	12
Sheet 3	ADV-7600C-D	13
Accessory Connections		
Accessories	GM16088A-H	26
Remote Annunciator Kit	GM16088B-H	27
Decision-Maker® 3000 Controller		
Point-to-Point Wiring Diagram		
Sheet 1	GM73379A-A	45
Sheet 2	GM73379B-A	46
Sheet 3	GM73379C-A	47
Schematic Diagram		
Sheet 1	ADV-7834A-A	21
Sheet 2	ADV-7834B-A	22
Accessory Connections		
Accessories	GM67191-A	34
Alternator Reconnections		
4-Lead	ADV-5875A-L	9
12-Lead	ADV-5875B-L	10

40/45REZG Wiring Diagrams Reference

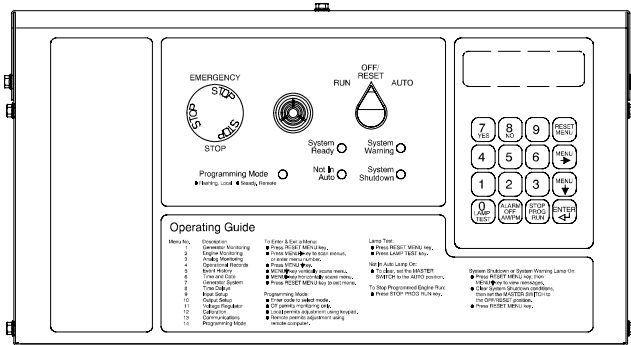
Controller Description	Version 2	Page
Decision-Maker® 550 Controller		
Point-to-Point Wiring Diagram		
Sheet 1	GM63941A-D	28
Sheet 2	GM63941B-D	29
Sheet 3	GM63941C-D	30
Schematic Diagram		
Sheet 1	ADV-7600A-D	11
Sheet 2	ADV-7600B-D	12
Sheet 3	ADV-7600C-D	13
Accessory Connections		
Accessories	GM16088A-H	26
Remote Annunciator Kit	GM16088B-H	27
Decision-Maker® 3000 Controller		
Point-to-Point Wiring Diagram		
Sheet 1	GM73379A-A	45
Sheet 2	GM73379B-A	46
Sheet 3	GM73379C-A	47
Schematic Diagram		
Sheet 1	ADV-7834A-A	21
Sheet 2	ADV-7834B-A	22
Accessory Connections		
Accessories	GM67191-A	34
Decision-Maker® 3+ Controller		
Point-to-Point Wiring Diagram		
Sheet 1	GM63942A-D	31
Sheet 2	GM63942B-D	32
Sheet 3	GM63942C-D	33
Schematic Diagram		
Sheet 1	ADV-7601A-C	14
Sheet 2	ADV-7601B-C	15
Accessory Connections		
Accessories	328912A-H	48
Remote Annunciator Kit	328912B-H	49
Alternator Reconnections		
4-Lead	ADV-5875A-L	9
12-Lead	ADV-5875B-L	10

50-150REZG Wiring Diagrams Reference

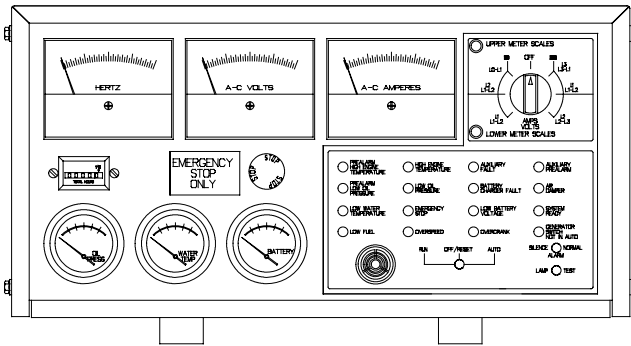
Controller Description	Version 3	Page
Decision-Maker® 550 Controller		
Point-to-Point Wiring Diagram		
Sheet 1	GM70545A-C	38
Sheet 2	GM70545B-C	39
Sheet 3	GM70545C-C	40
Schematic Diagram		
Sheet 1	ADV-7737A-B	16
Sheet 2	ADV-7737B-B	17
Sheet 3	ADV-7737CB	18
Accessory Connections		
Accessories	GM16088A-H	26
Remote Annunciator Kit	GM16088B-H	27
Decision-Maker® 3000 Controller		
Point-to-Point Wiring Diagram		
Sheet 1	GM72401A-B	41
Sheet 2	GM72401B-B	42
Sheet 3	GM72401C-B	43
Sheet 4	GM72401D-B	44
Schematic Diagram		
Sheet 1	ADV-7861A-B	23
Sheet 2	ADV-7861B-B	24
Sheet 3	ADV-7861C-B	25
Accessory Connections		
Accessories	GM67191-A	34
Decision-Maker® 3+ Controller		
Point-to-Point Wiring Diagram		
Sheet 1	GM70544A-C	35
Sheet 2	GM70544B-C	36
Sheet 3	GM70544C-C	37
Schematic Diagram		
Sheet 1	ADV-7738A-B	19
Sheet 2	ADV-7738B-B	20
Accessory Connections		
Accessories	328912A-H	48
Remote Annunciator Kit	328912B-H	49
Alternator Reconnections		
4-Lead	ADV-5875A-L	9
12-Lead	ADV-5875B-L	10



Decision-Maker® 3000 Controller



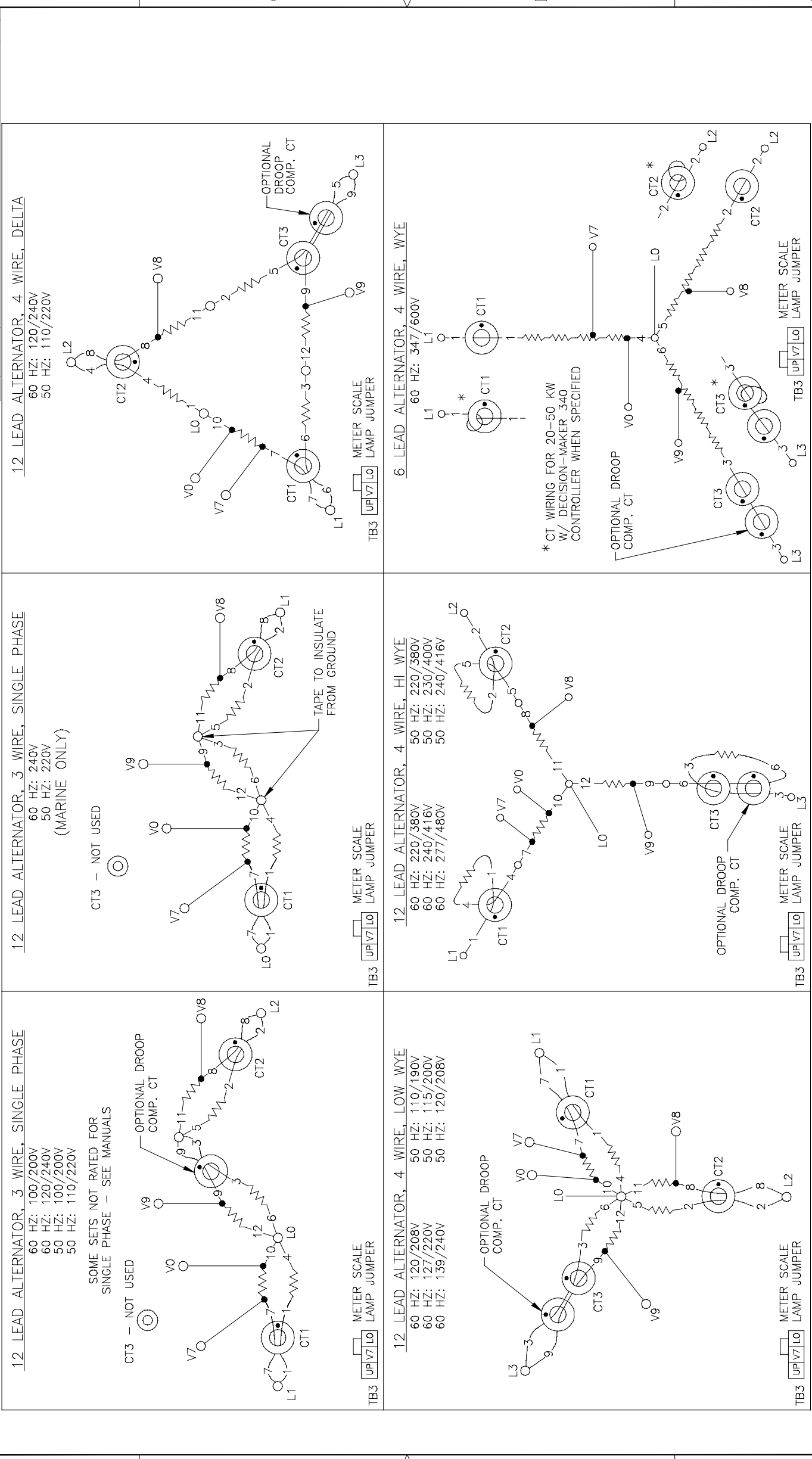
Decision-Maker® 550 Controller



Decision-Maker® 3+, 16-Light Controller

Notes

REV	DATE	REVISION	BY
H	9-25-06	(A-1) SHEET 2 OF 4 WAS 1 OF 3 [77613]	CRS
J	4-30-08	(A,B-2,3) 4/7, 5/8 & 6/9 CONNECTIONS MOVED TO OPPOSITE SIDE OF CT'S; SPECTRUM & SDMO VOIDED AND REMOVED; SEE SHEETS 1, 3 AND 4 [85250]	SEM
K	9-9-08	(B-2) CT WIRING NOTE RESTORED [86307]	SEM
L	11-19-08	SEE SHEET 3 [86648]	CRS



NOTES:
 CURRENT TRANSFORMER DOT OR "H1" TOWARD GENERATOR.
 CURRENT TRANSFORMERS NOT USED ON ALL SETS.

PHASE ROTATION
 A B C
 L1 L2 L3

3 PHASE
 FRII ALTERNATORS,
 FRII WOUND EXCITER FIELD ALTERNATORS,
 AND 10-20KW SMALL STANDBY

UNLESS OTHERWISE SPECIFIED -
 1) DIMENSIONS ARE IN INCHES
 2) TOLERANCES ARE
 .XXX ± .010 SURFACE FINISH
 .XX ± .000 MAX.
 .X ± .000

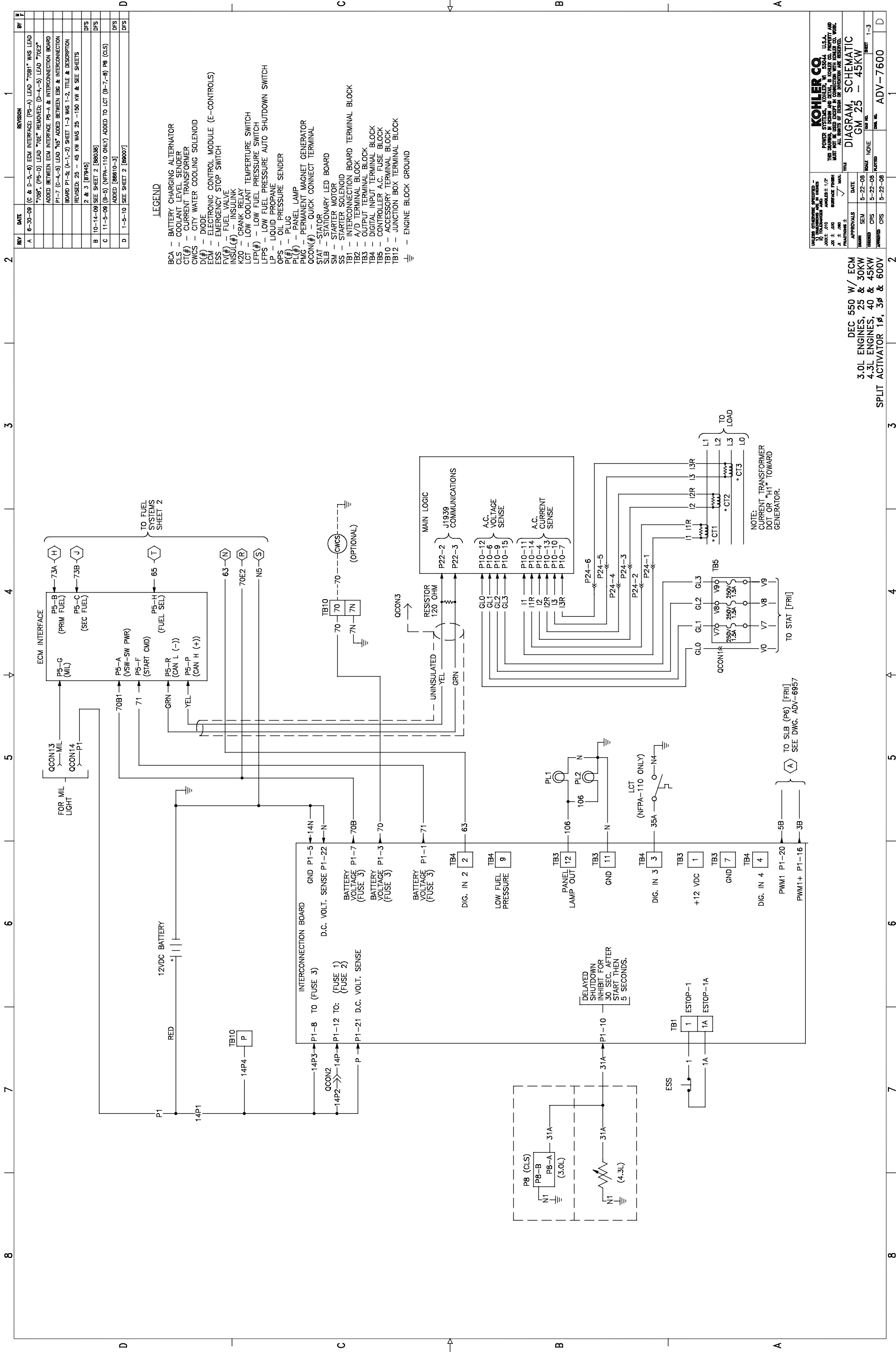
APPROVALS
 DRAWN DFS 7-28-92
 CHECKED TLK 6-23-99
 APPROVED JMH 6-23-99

DATE
 7-28-92
 6-23-99
 6-23-99

CO. NO. ADV-5875
 SHEET 2-4

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**DIAGRAM,
 RECONNECTABLE**



APPROVALS	DATE	SCALE	NO. OF SHEETS	TOTAL SHEETS
DESIGNED	5-22-08	1/2"	1-3	3
CHECKED	5-22-08			
APPROVED	5-22-08			

UNLESS OTHERWISE SPECIFIED -
 1) DIMENSIONS IN INCHES
 2) DIMENSIONS IN MILLIMETERS
 3) TOLERANCES UNLESS OTHERWISE SPECIFIED -
 FRACTIONS ±
 DECIMALS ±
 ANGLES ± 1/2°
 SURFACE FINISH UNLESS OTHERWISE SPECIFIED -
 ALL SURFACES TO BE FINISHED WITH RA 1.6
 ALL DIMENSIONS TO CENTER UNLESS OTHERWISE SPECIFIED

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DIAGRAM, SCHEMATIC
GM 25 - 45KW

ADV-7600

DEC 550 W/ ECM
 3.0L ENGINES, 25 & 30KW
 4.3L ENGINES, 40 & 45KW
 SPLIT ACTIVATOR 1P, 3P & 600V

NOTE:
 CURRENT TRANSFORMER
 DOT OR "H1" TOWARD
 GENERATOR.

TO STAT [FRI]
 TO SLB (P6) [FRI]
 SEE DWG. ADV-6857

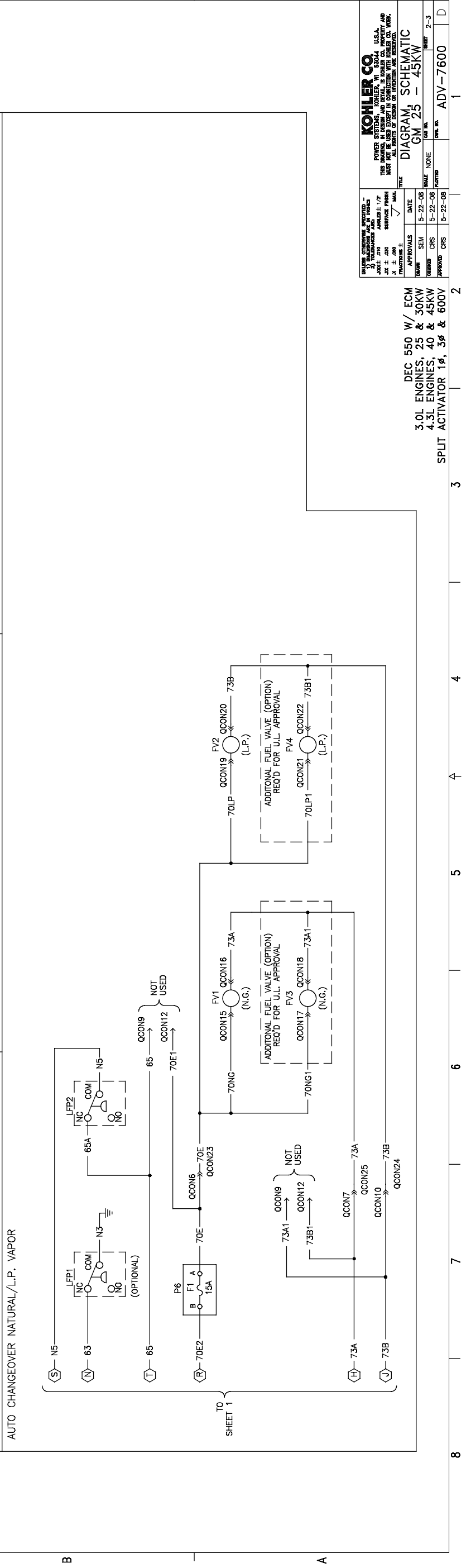
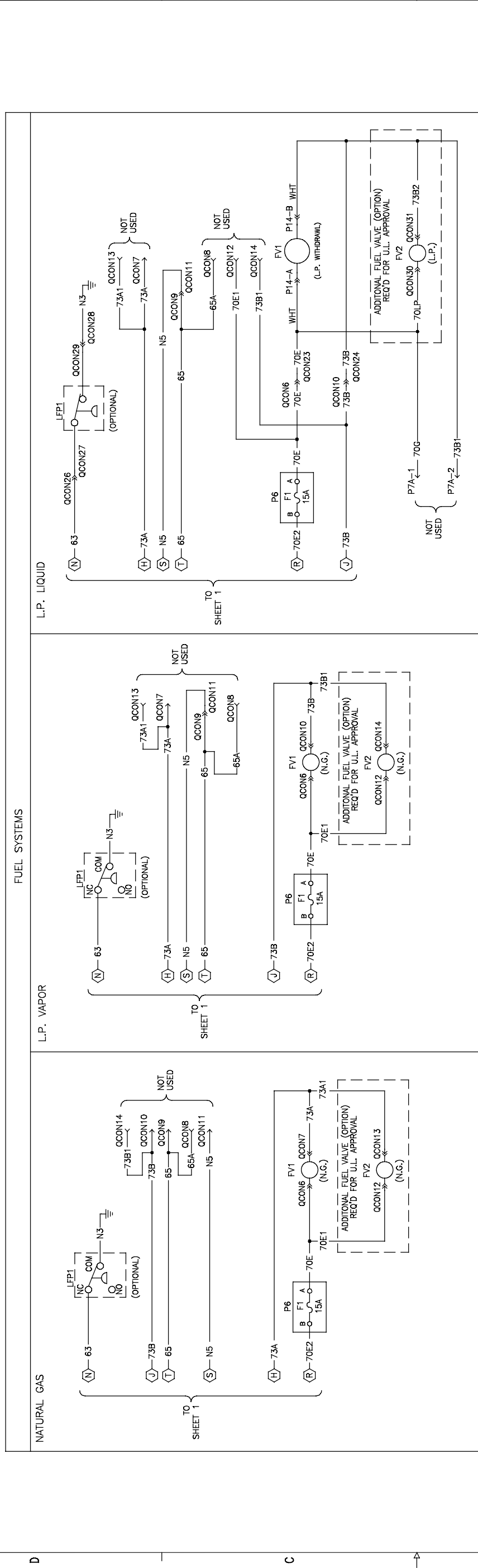
TO FUEL SYSTEMS SHEET 2

TO STAT [FRI]
 TO SLB (P6) [FRI]
 SEE DWG. ADV-6857

TO STAT [FRI]
 TO SLB (P6) [FRI]
 SEE DWG. ADV-6857

TO STAT [FRI]
 TO SLB (P6) [FRI]
 SEE DWG. ADV-6857

REV	DATE	REVISION	BY
B	10-14-08	(B-A-7 & D-3-5-7) LFP1 & LFP2 GEOMETRY REVISED (B PLACES) TO REFLECT CURRENT SWITCH DESIGN [86038]	DFS
C	11-5-09	SEE SHEET 1 [86610-3]	DFS
D	1-5-10	(B,C,D-1 THRU -4) L.P. LIQUID WIRING REVISED TO REFLECT CHANGES MADE TO WIRING DIAGRAM & L.P. LIQUID EXTENSION HARNES [86007]	DFS



APPROVALS	DATE	SCALE	NO. IN SET	SHEET
DESIGNED	5-22-08	1/2"	2	2-3
CHECKED	5-22-08			
APPROVED	5-22-08			

UNLESS OTHERWISE SPECIFIED -
 1) DIMENSIONS ARE IN INCHES
 2) TOLERANCES ARE:
 FRACTIONS ± .015
 DECIMALS ± .010
 SURFACE FINISH
 UNLESS OTHERWISE SPECIFIED -
 ALL DIMENSIONS OF DESIGN OR CONSTRUCTION ARE IDENTICAL.

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U.S. PATENT OFFICE REG. NO. 2,811,100

DATE: 5-22-08

SCALE: NONE

NO. IN SET: 2

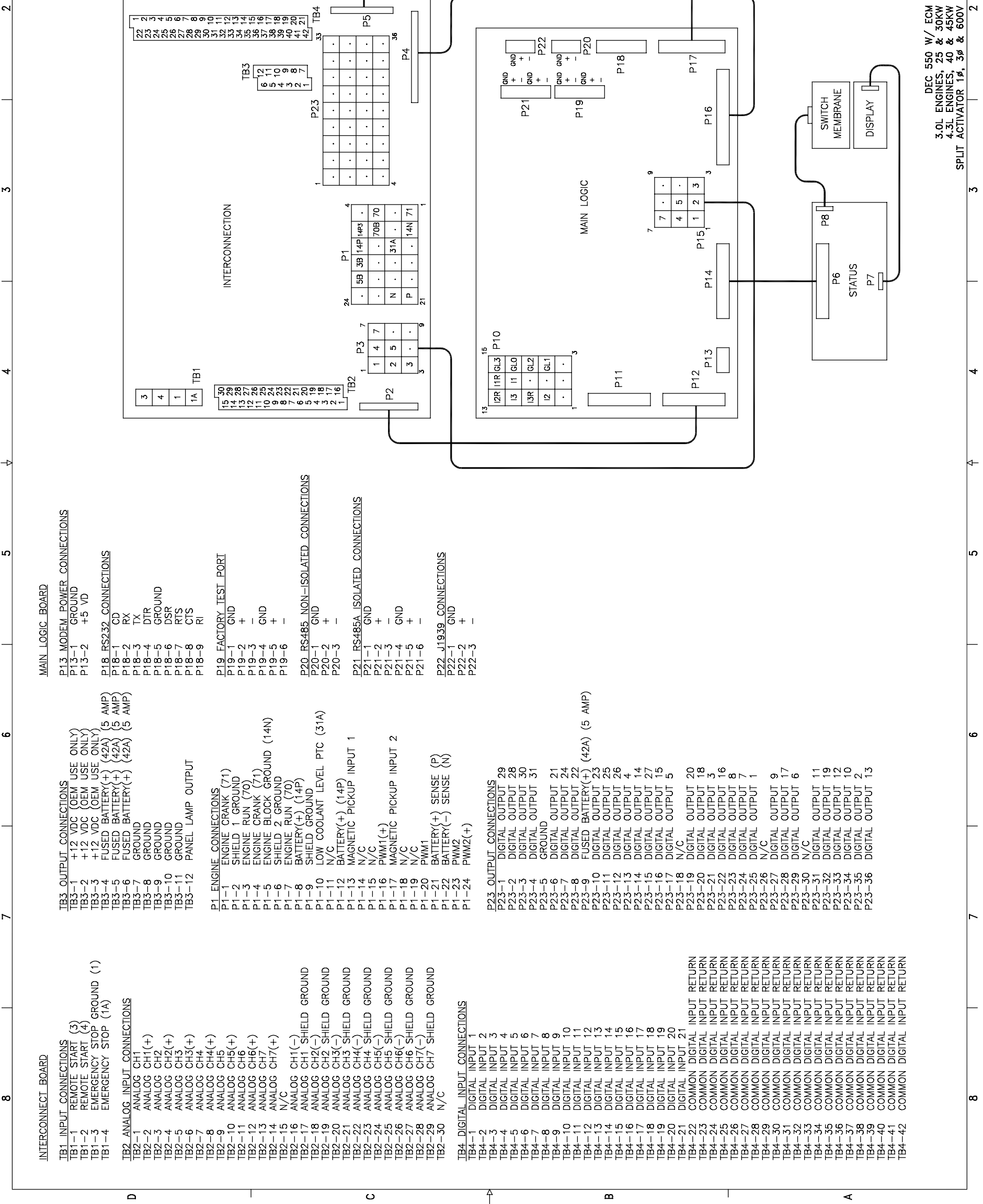
SHEET: 2-3

FILE: **DIAGRAM, SCHEMATIC**
GM 25 - 45KW

ADV-7600

DEC 550 W/ ECM
 3.0L ENGINES, 25 & 30KW
 4.3L ENGINES, 40 & 45KW
 SPLIT ACTIVATOR 1Ø, 3Ø & 600V

REV	DATE	REVISION	BY
A	6-30-08	THIS SHEET ADDED & INFO MOVED TO THIS SHEET FROM SHEET 2 [87945]	DPS
B	10-14-09	SEE SHEET 2 [86036]	DPS
C	11-5-09	SEE SHEET 2 [86810-3]	DPS
D	1-5-10	SEE SHEET 2 [86007]	DPS



MAIN LOGIC BOARD

- P13 MODEM POWER CONNECTIONS**
P13-1 GROUND
P13-2 +5 VD
- 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_FACTORY TEST PORT**
P19-1 GND
P19-2 +
P19-3 -
P19-4 GND
P19-5 +
P19-6 -
- P20_RS485_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(+)

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(-) SHIELD GROUND
TB2-17 ANALOG CH2(-) SHIELD GROUND
TB2-18 ANALOG CH3(-) SHIELD GROUND
TB2-19 ANALOG CH4(-) SHIELD GROUND
TB2-20 ANALOG CH5(-) SHIELD GROUND
TB2-21 ANALOG CH6(-) SHIELD GROUND
TB2-22 ANALOG CH7(-) SHIELD GROUND
TB2-23 ANALOG CH8(-) SHIELD GROUND
TB2-24 ANALOG CH9(-) SHIELD GROUND
TB2-25 ANALOG CH10(-) SHIELD GROUND
TB2-26 ANALOG CH11(-) SHIELD GROUND
TB2-27 ANALOG CH12(-) SHIELD GROUND
TB2-28 ANALOG CH13(-) SHIELD GROUND
TB2-29 ANALOG CH14(-) 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 COMMON DIGITAL INPUT RETURN
TB4-23 COMMON DIGITAL INPUT RETURN
TB4-24 COMMON DIGITAL INPUT RETURN
TB4-25 COMMON DIGITAL INPUT RETURN
TB4-26 COMMON DIGITAL INPUT RETURN
TB4-27 COMMON DIGITAL INPUT RETURN
TB4-28 COMMON DIGITAL INPUT RETURN
TB4-29 COMMON DIGITAL INPUT RETURN
TB4-30 COMMON DIGITAL INPUT RETURN
TB4-31 COMMON DIGITAL INPUT RETURN
TB4-32 COMMON DIGITAL INPUT RETURN
TB4-33 COMMON DIGITAL INPUT RETURN
TB4-34 COMMON DIGITAL INPUT RETURN
TB4-35 COMMON DIGITAL INPUT RETURN
TB4-36 COMMON DIGITAL INPUT RETURN
TB4-37 COMMON DIGITAL INPUT RETURN
TB4-38 COMMON DIGITAL INPUT RETURN
TB4-39 COMMON DIGITAL INPUT RETURN
TB4-40 COMMON DIGITAL INPUT RETURN
TB4-41 COMMON DIGITAL INPUT RETURN
TB4-42 COMMON DIGITAL INPUT RETURN

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

UNLESS OTHERWISE SPECIFIED -	APPROVALS	DATE	SCALE	FIG. NO.	SHEET
1) DIMENSIONS ARE IN INCHES	DESIGN	6-30-08	NONE	NONE	3-3
2) DIMENSIONS ARE IN MILLIMETERS	DWG	7-1-09	AS SHOWN	ADV-7600	D
3) DIMENSIONS ARE IN MILLIMETERS	CHKD				
4) DIMENSIONS ARE IN MILLIMETERS	APPD				

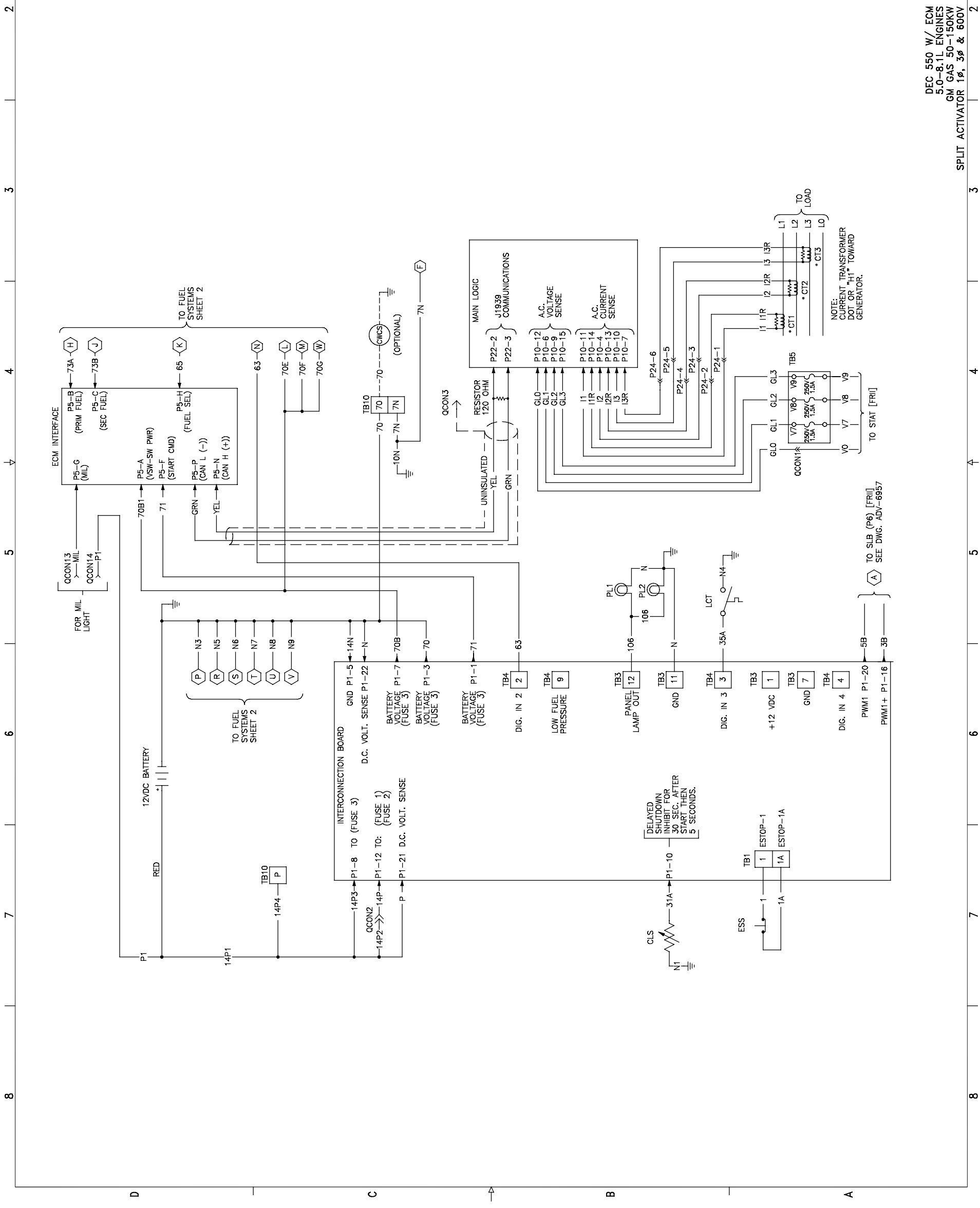
KOHLER CO. U.S.A.
POWER SYSTEMS DIVISION
10000 WILSON AVENUE, WILSON, NJ 07094
TEL: 908-261-1000 FAX: 908-261-1001
E-MAIL: kco@kco.com
WWW: www.kohler.com

DIAGRAM, SCHEMATIC
GM 25 - 45KW

DEC 550 W/ ECM
3.0L ENGINES, 25 & 30KW
4.3L ENGINES, 40 & 45KW
SPLIT ACTIVATOR 1P, 3P & 600V

REV	DATE	REVISION	BY
-	6-23-09	NEW DRAWING [67726]	DPS
A	10-14-09	SEE SHEET 2 [86038]	DPS
B	1-8-10	SEE SHEET 2 [86007]	DPS

- LEGEND**
- BCA -- BATTERY CHARGING ALTERNATOR
 - CLS -- COILANT LEVEL SENDER
 - CT1(#)-- CURRENT TRANSFORMER
 - CWCS -- CITY WATER COOLING SOLENOID
 - DY(#)-- DIODE
 - ESS -- ELECTRONIC CONTROL MODULE (E-CONTROLS)
 - FCS -- FUEL STOP SWITCH
 - FUEL(#)-- FUEL INJECTOR
 - INSUL(#)-- INSULATION
 - K20 -- CRANK RELAY
 - LCT -- LOW COOLANT
 - LFP(#)-- LOW FUEL PRESSURE SWITCH
 - LP -- LIQUID PROXPANE
 - OPS -- OIL PRESSURE SENDER
 - PL(#)-- PLUG
 - PLM(#)-- PANEL LAMP
 - PMG -- PERMANENT MAGNET GENERATOR
 - QCON(#)-- QUICK CONNECT TERMINAL
 - STAT -- STATOR
 - SLB -- STATIONARY LED BOARD
 - SM -- STARTER MOTOR
 - SS -- STARTER SOLENOID
 - TB1 -- INTERCONNECTION BOARD TERMINAL BLOCK
 - TB2 -- A/D TERMINAL BLOCK
 - TB3 -- OUTPUT TERMINAL BLOCK
 - TB4 -- DIGITAL INPUT TERMINAL BLOCK
 - TB5 -- CONTROLLER A.C. FUSE BLOCK
 - TB10 -- ACCESSORY TERMINAL BLOCK
 - TB12 -- JUNCTION BOX TERMINAL BLOCK
 - ⏏ -- ENGINE BLOCK GROUND



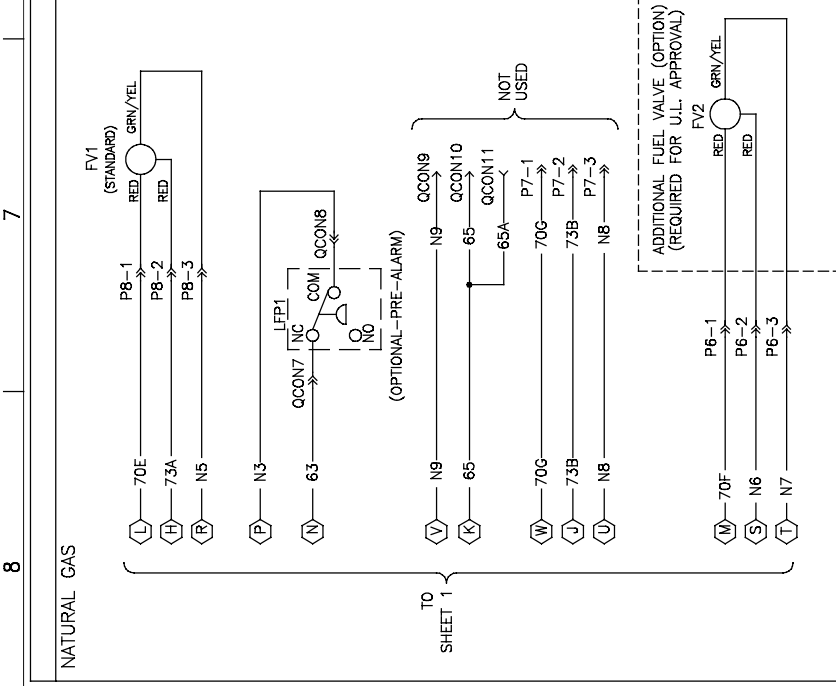
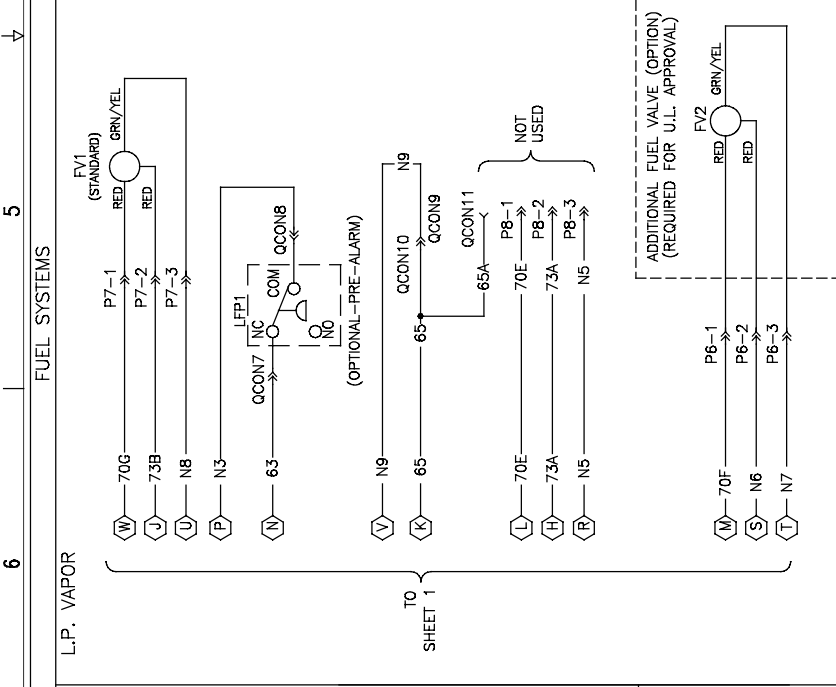
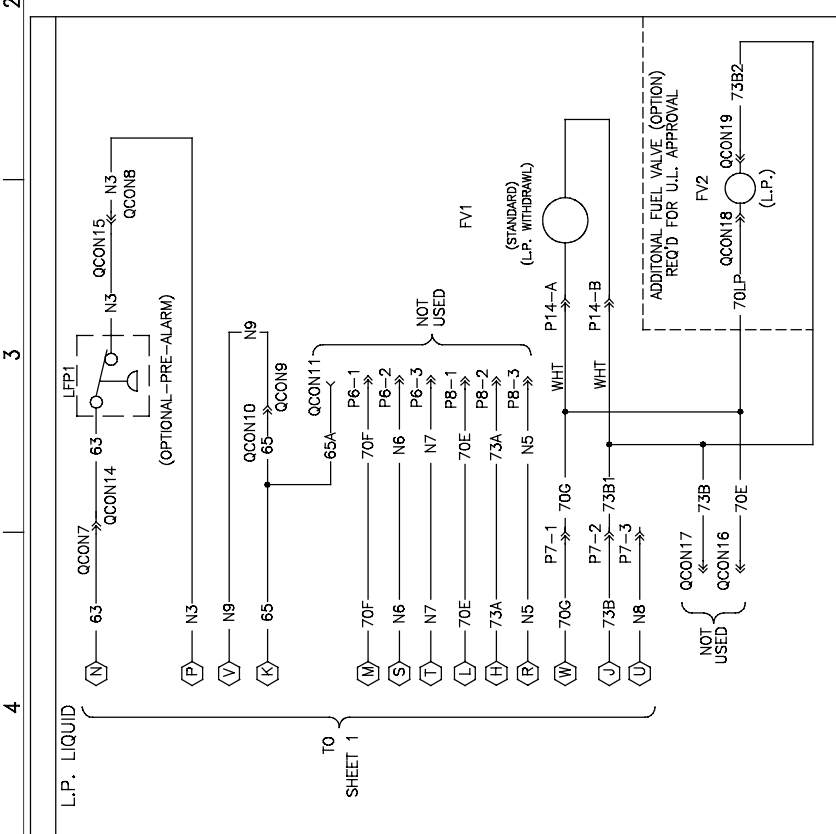
APPROVALS	DATE	SCALE	NO. OF SHEETS	TOTAL SHEETS
DESIGNED	6-23-09		1-3	3
CHECKED	6-24-09			
APPROVED	6-24-09			

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POWER SYSTEMS, KOHLER, WI 53044 U.S.A.
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DIAGRAM, SCHEMATIC
GM 50-150KW

DEC 550 W/ ECM
5.0-8.1L ENGINES
GM GAS 50-150KW
SPLIT ACTIVATOR 1 ϕ , 3 ϕ & 600V

REV	DATE	REVISION	BY
-	6-23-09	NEW DRAWING [87726]	
A	10-14-08	(A-B, B-7, D-3, 5-7) LFP1 & LFP2 GEOMETRY REVISED (6 PLACES) TO REFLECT NEW SWITCH DESIGN [88036]	DFS
B	1-6-10	(C & D-2 THRU -4) L.P. LIQUID WIRING REVISED TO REFLECT CHANGES MADE TO WIRING DIAGRAM & L.P. LIQUID EXTENSION HARNESS: (A & B-1 THRU-4) WIRING DIAGRAM ADDED FOR 5.7L TURBO DUAL FUEL [89007]	DFS

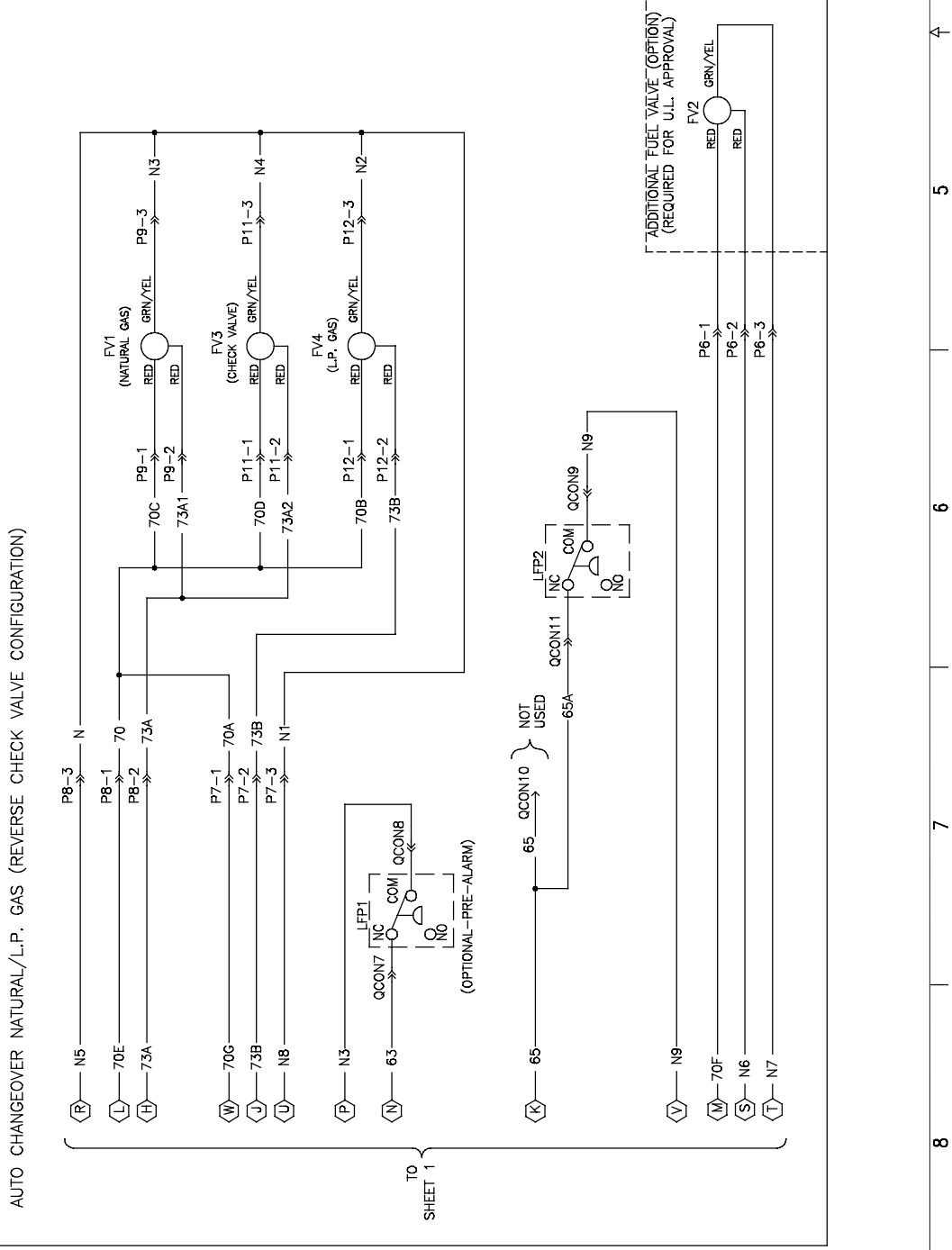
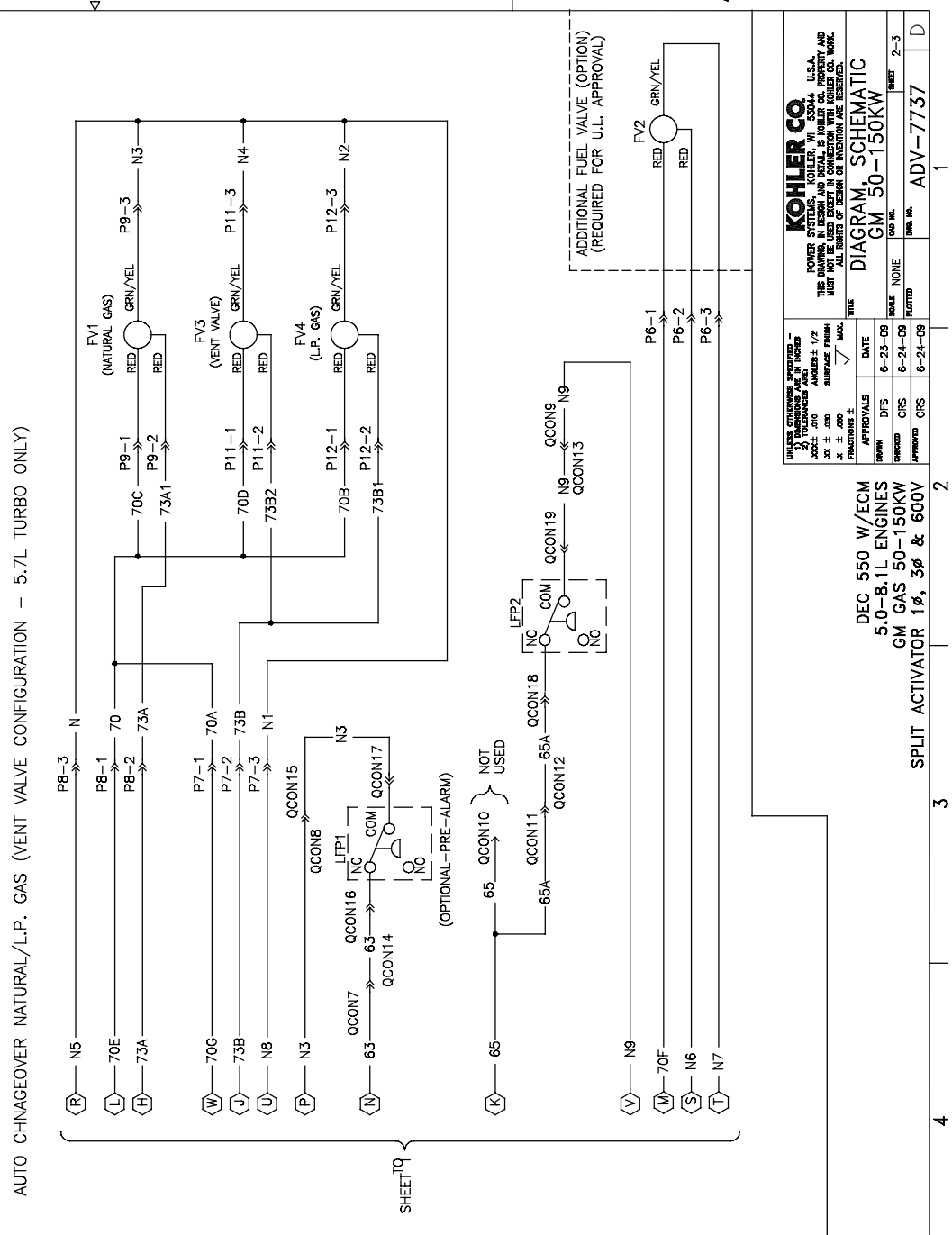


NATURAL GAS

FUEL SYSTEMS

L.P. LIQUID

L.P. VAPOR



AUTO CHNGEOVER NATURAL/L.P. GAS (REVERSE CHECK VALVE CONFIGURATION)

AUTO CHNGEOVER NATURAL/L.P. GAS (VENT VALVE CONFIGURATION - 5.7L TURBO ONLY)

DATE	BY	REVISION
6-23-09		NEW DRAWING [87726]
10-14-08	DFS	(A-B, B-7, D-3, 5-7) LFP1 & LFP2 GEOMETRY REVISED (6 PLACES) TO REFLECT NEW SWITCH DESIGN [88036]
1-6-10	DFS	(C & D-2 THRU -4) L.P. LIQUID WIRING REVISED TO REFLECT CHANGES MADE TO WIRING DIAGRAM & L.P. LIQUID EXTENSION HARNESS: (A & B-1 THRU-4) WIRING DIAGRAM ADDED FOR 5.7L TURBO DUAL FUEL [89007]

DATE	BY	REVISION
6-23-09		NEW DRAWING [87726]
10-14-08	DFS	(A-B, B-7, D-3, 5-7) LFP1 & LFP2 GEOMETRY REVISED (6 PLACES) TO REFLECT NEW SWITCH DESIGN [88036]
1-6-10	DFS	(C & D-2 THRU -4) L.P. LIQUID WIRING REVISED TO REFLECT CHANGES MADE TO WIRING DIAGRAM & L.P. LIQUID EXTENSION HARNESS: (A & B-1 THRU-4) WIRING DIAGRAM ADDED FOR 5.7L TURBO DUAL FUEL [89007]

DATE	BY	REVISION
6-23-09		NEW DRAWING [87726]
10-14-08	DFS	(A-B, B-7, D-3, 5-7) LFP1 & LFP2 GEOMETRY REVISED (6 PLACES) TO REFLECT NEW SWITCH DESIGN [88036]
1-6-10	DFS	(C & D-2 THRU -4) L.P. LIQUID WIRING REVISED TO REFLECT CHANGES MADE TO WIRING DIAGRAM & L.P. LIQUID EXTENSION HARNESS: (A & B-1 THRU-4) WIRING DIAGRAM ADDED FOR 5.7L TURBO DUAL FUEL [89007]

DEC 550 W/ECM
5.0-8.1L ENGINES
GM GAS 50-150KW
SPLIT ACTIVATOR 1φ, 3φ & 600V

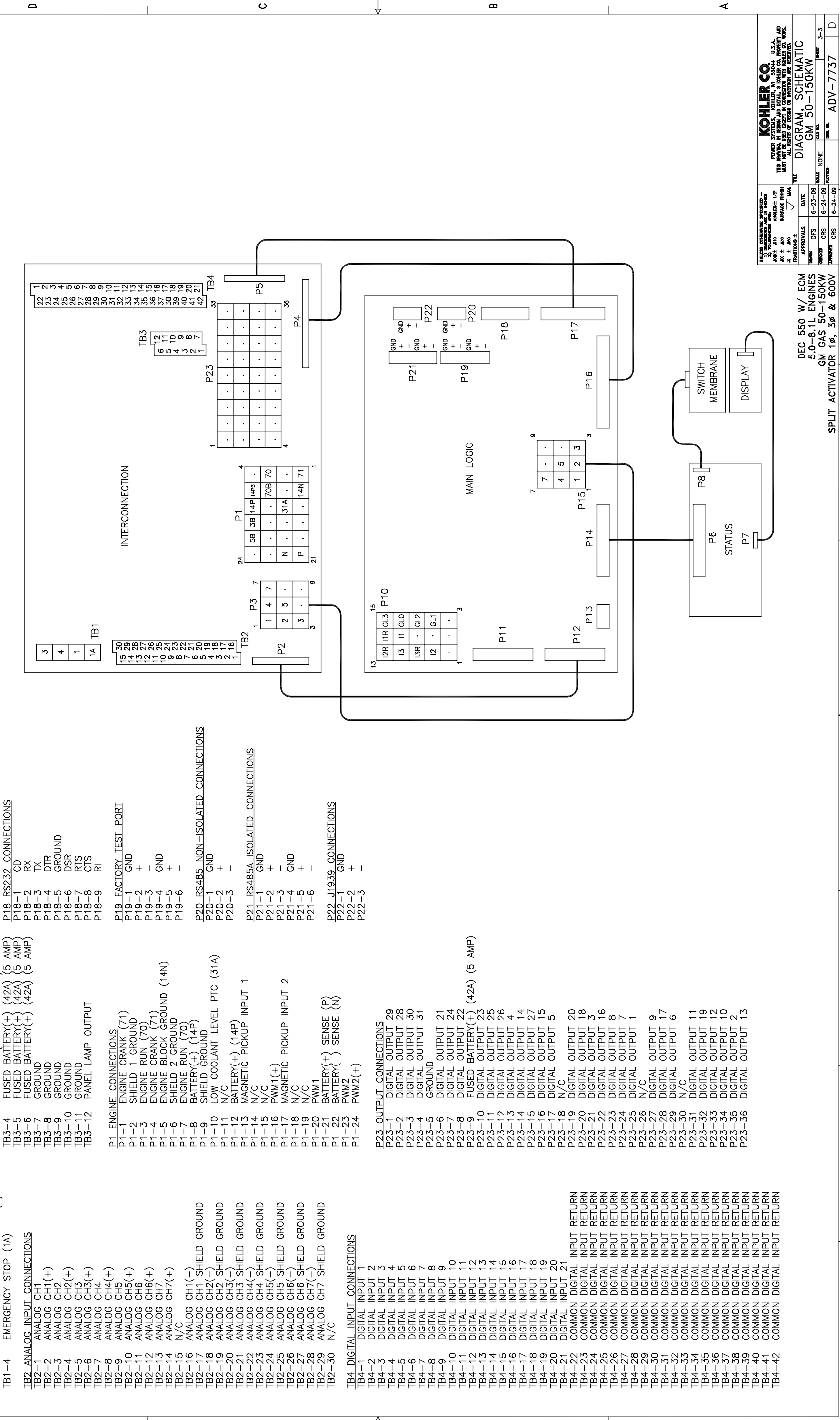
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DIAGRAM SCHEMATIC
GM 50-150KW

ADV-7737

REV	DATE	REVISION	BY
-	6-23-09	NEW DRAWING [67726]	DFS
A	10-14-09	SEE SHEET 2 [66036]	DFS
B	1-6-10	SEE SHEET 2 [66007]	DFS

REV	DATE	REVISION	BY
-	6-23-09	NEW DRAWING [67726]	DFS
A	10-14-09	SEE SHEET 2 [66036]	DFS
B	1-6-10	SEE SHEET 2 [66007]	DFS



REV	DATE	REVISION	BY
-	6-23-09	NEW DRAWING [67726]	DFS
A	10-14-09	SEE SHEET 2 [66036]	DFS
B	1-6-10	SEE SHEET 2 [66007]	DFS

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DATE: 6-23-09
 DRAWN: DFS
 CHECKED: CFS
 APPROVED: CFS

DATE: 6-24-09
 DRAWN: NONE
 CHECKED: NONE
 APPROVED: NONE

FIG. NO. ADV-7737

DEC 550 W/ ECM
 5.0-8.1L ENGINES
 GM GAS 50-150KW
 SPLIT ACTIVATOR 1 ϕ , 3 ϕ & 600V

18 Wiring Diagrams

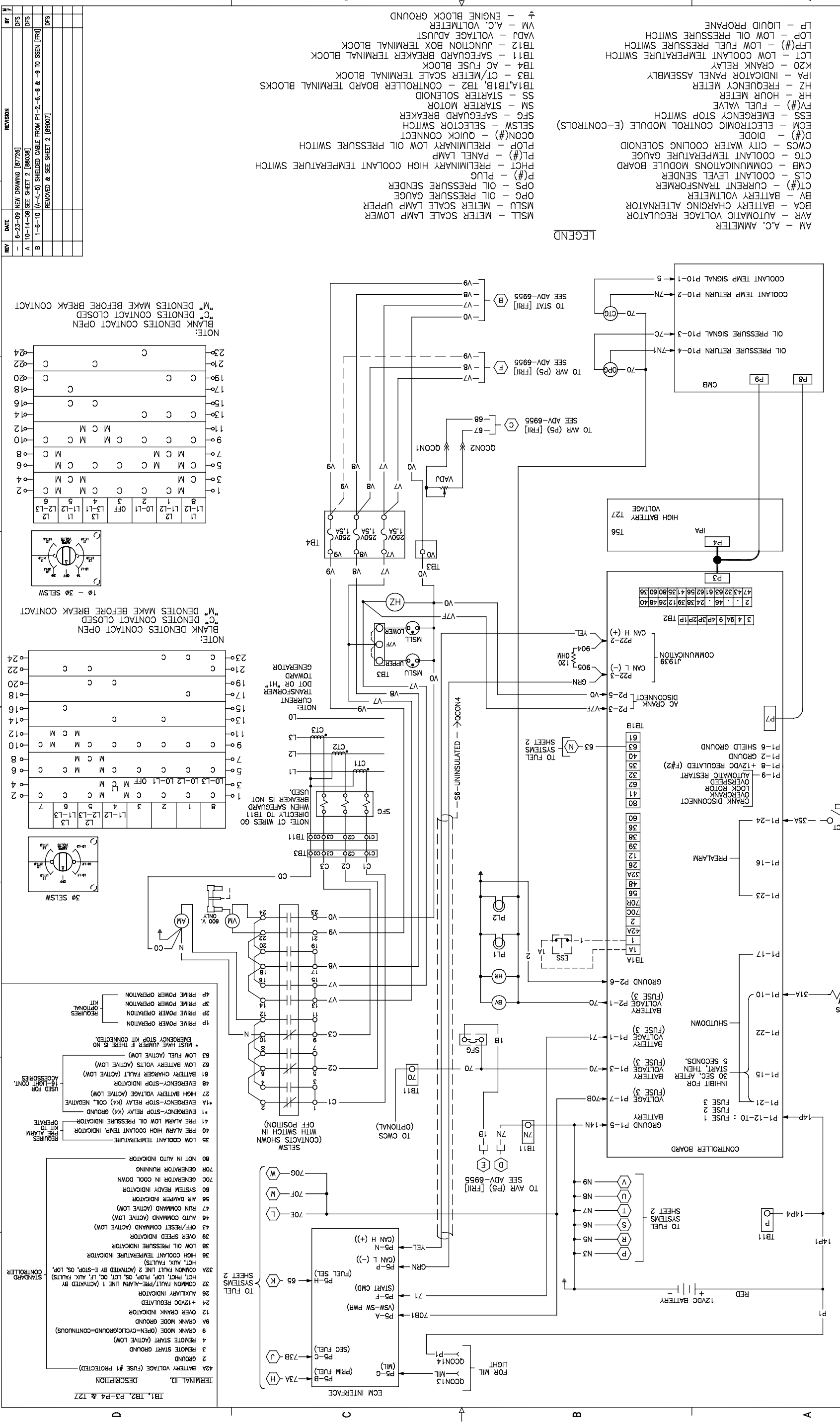
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DIAGRAM, SCHEMATIC
 GM 50-150KW

DATE: 6-23-09
 DRAWN: DFS
 CHECKED: CFS
 APPROVED: CFS

REV. NO. 1-2
 PART NO. ADV-7738

DEC 3+ w/ ECM
 5.0-8.1L ENGINES
 GM GAS 55-150KW
 SPLIT ACTIVATOR 1φ, 3φ & 600V



LEGEND

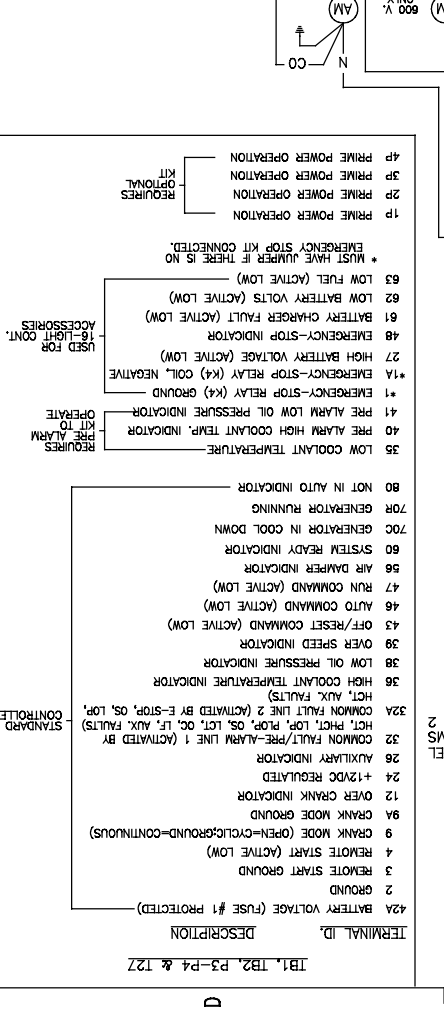
- AM - A.C. AMMETER
- AVR - AUTOMATIC VOLTAGE REGULATOR
- BCA - BATTERY CHARGING ALTERNATOR
- BY - BATTERY VOLTAGE
- CT(#)- COOLANT TRANSFORMER
- CLS - COOLANT LEVEL SENDER
- CMB - COMMUNICATIONS MODULE BOARD
- CMG - COOLANT TEMPERATURE GAUGE
- CMCS - CITY WATER COOLING SOLENOID
- D(#)- DIODE
- ECM - ELECTROMEC STOP SWITCH
- ESS - EMERGENCY STOP SWITCH
- FV(#)- FUEL VALVE
- HR - HOUR METER
- IP# - INDICATOR PANEL ASSEMBLY
- K20 - CRANK RELAY
- LCT - LOW COOLANT TEMPERATURE SWITCH
- LFP(#)- LOW FUEL PRESSURE SWITCH
- LVP - LOW OIL PRESSURE SWITCH
- LP - LIQUID PROPANE
- PL# - JUNCTION BOX TERMINAL BLOCK
- TB1 - SAFEGUARD BREAKER TERMINAL BLOCK
- TB4 - AC FUSE BLOCK
- TB3 - CT/METER SCALE TERMINAL BLOCK
- TB1A, TB1B, TB2 - CONTROLLER BOARD TERMINAL BLOCKS
- SS - STARTER SOLENOID
- SM - STARTER MOTOR
- SFG - SAFEGUARD BREAKER
- SELSW - SELECTOR SWITCH
- QCON(#)- QUICK CONNECT
- PLOP - PRELIMINARY LOW OIL PRESSURE SWITCH
- PL# - PANEL LAMP
- P# - PRELIMINARY HIGH COOLANT TEMPERATURE SWITCH
- MSLU - METER SCALE LAMP UPPER
- OPG - OIL PRESSURE GAUGE
- OPS - OIL PRESSURE SENDER
- P# - PLUG
- P#CT - PRELIMINARY HIGH COOLANT TEMPERATURE SWITCH
- QCON1, QCON2 - QUICK CONNECT
- VADU - VOLTAGE ADJUST
- VM - A.C. VOLTMETER
- ⊕ - ENGINE BLOCK GROUND

NOTE: "C" DENOTES CONTACT CLOSED
 "M" DENOTES MAKE BEFORE BREAK CONTACT
 "O" DENOTES CONTACT OPEN

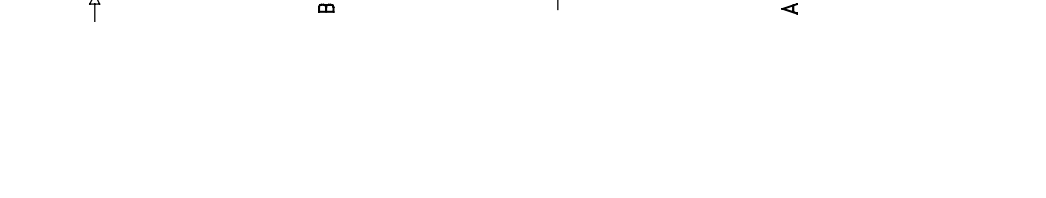
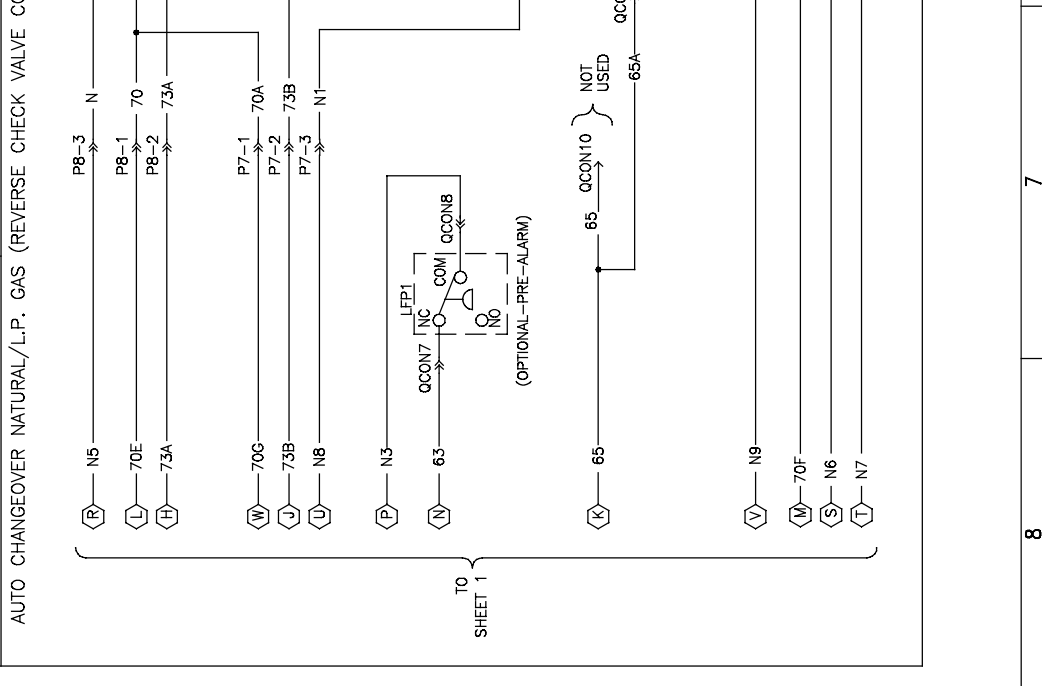
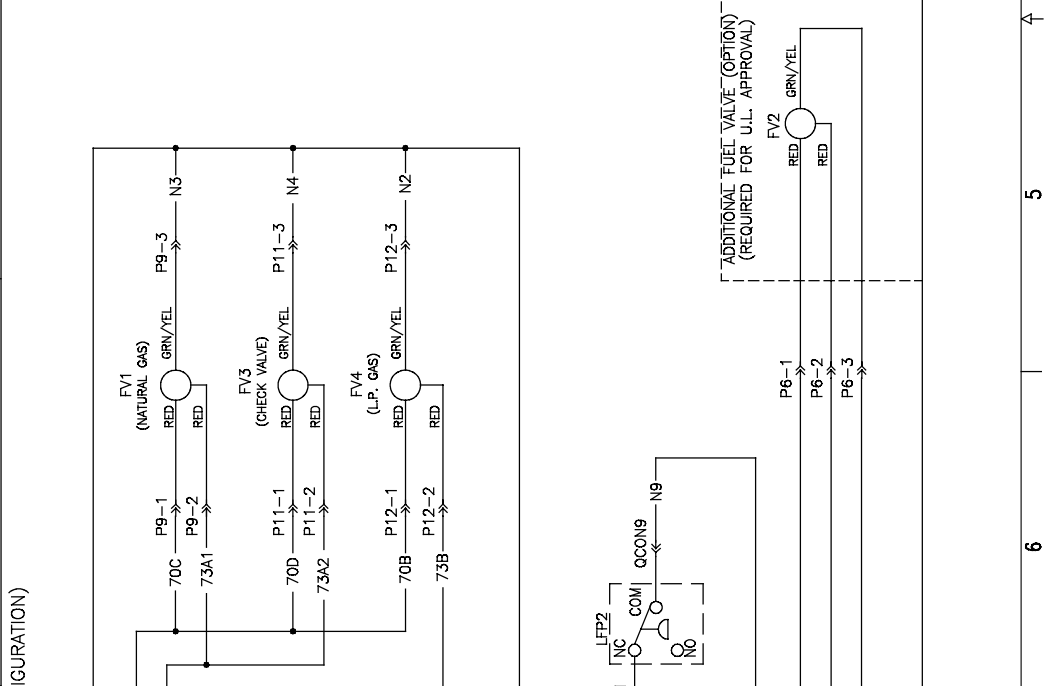
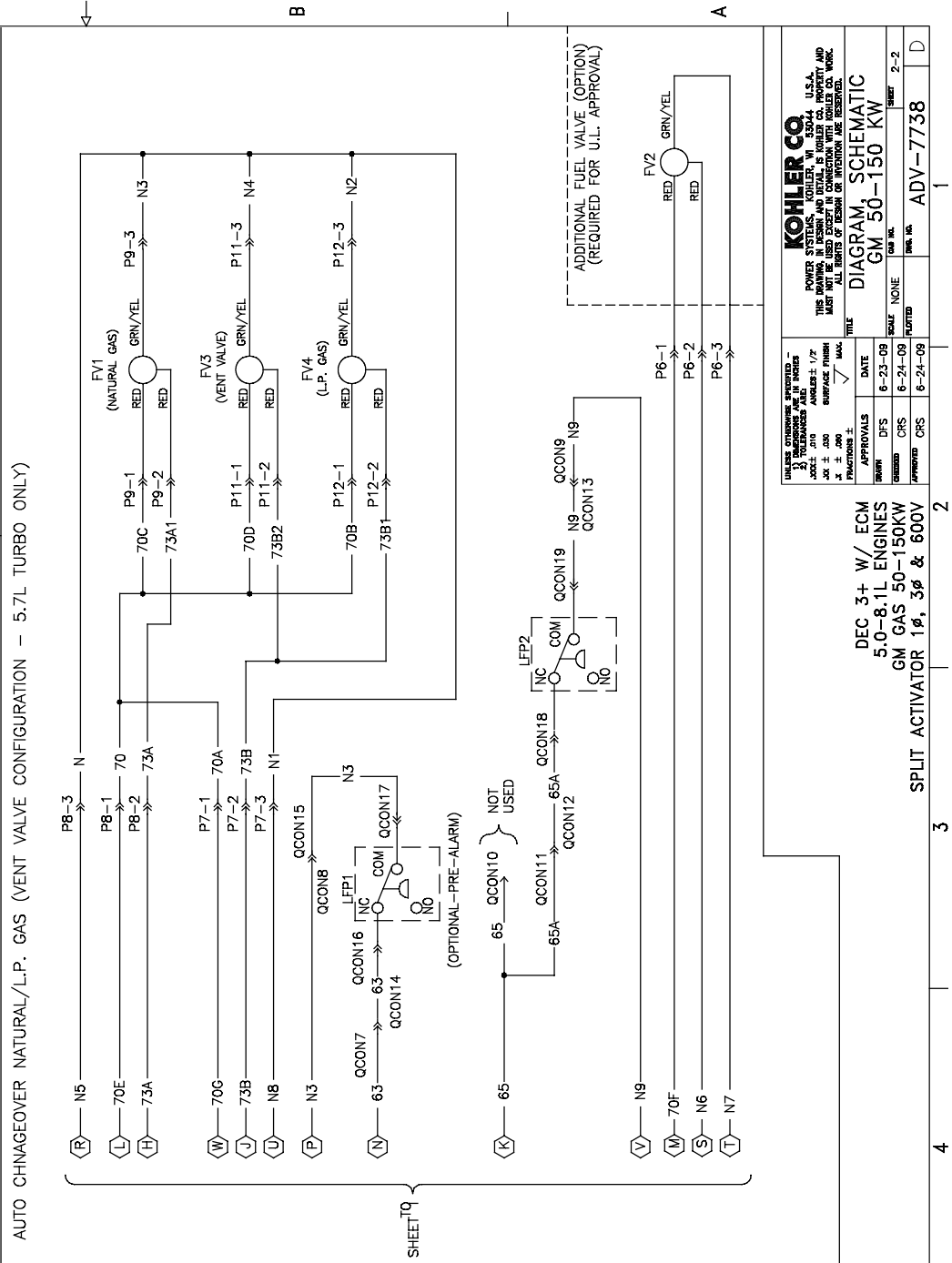
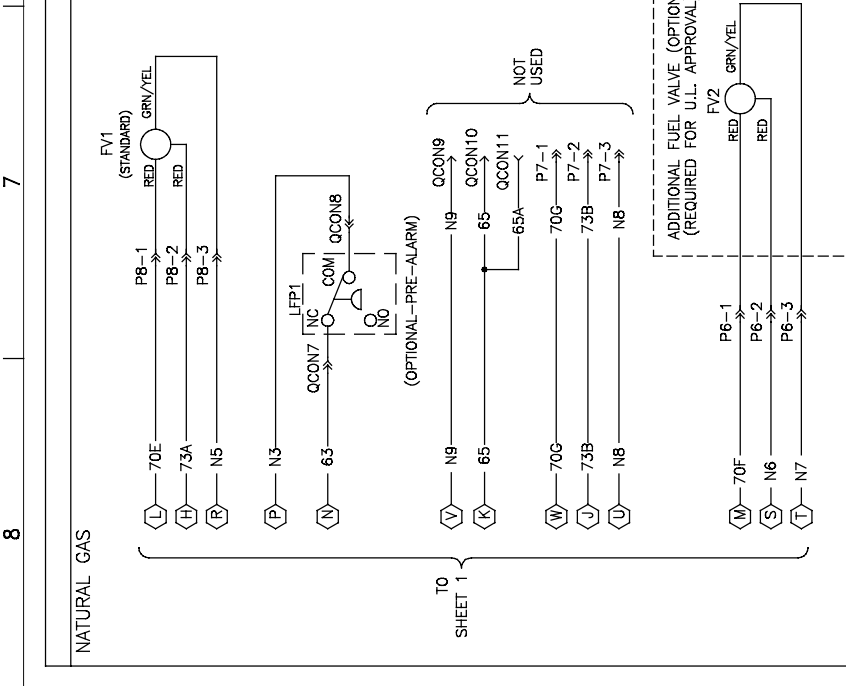
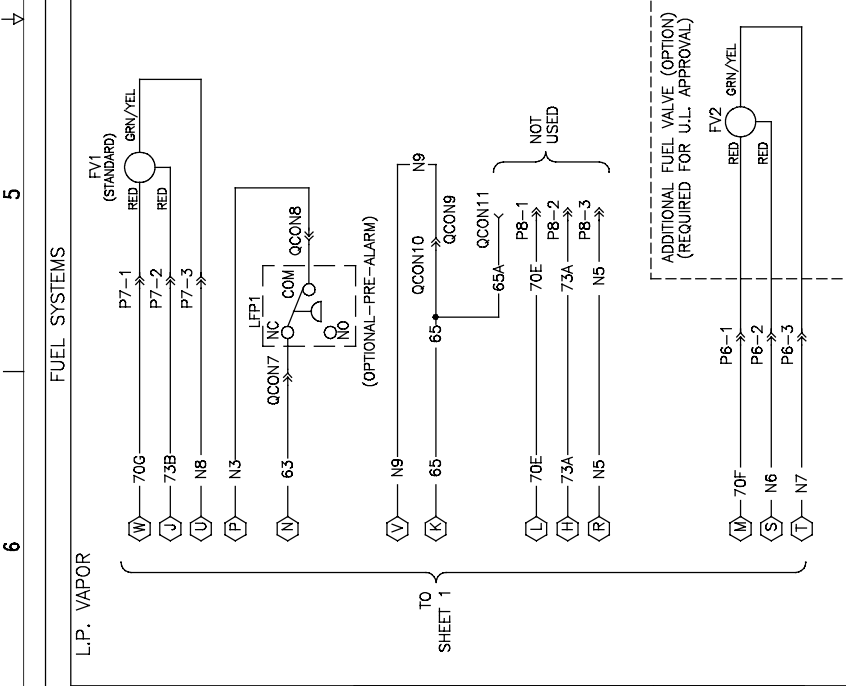
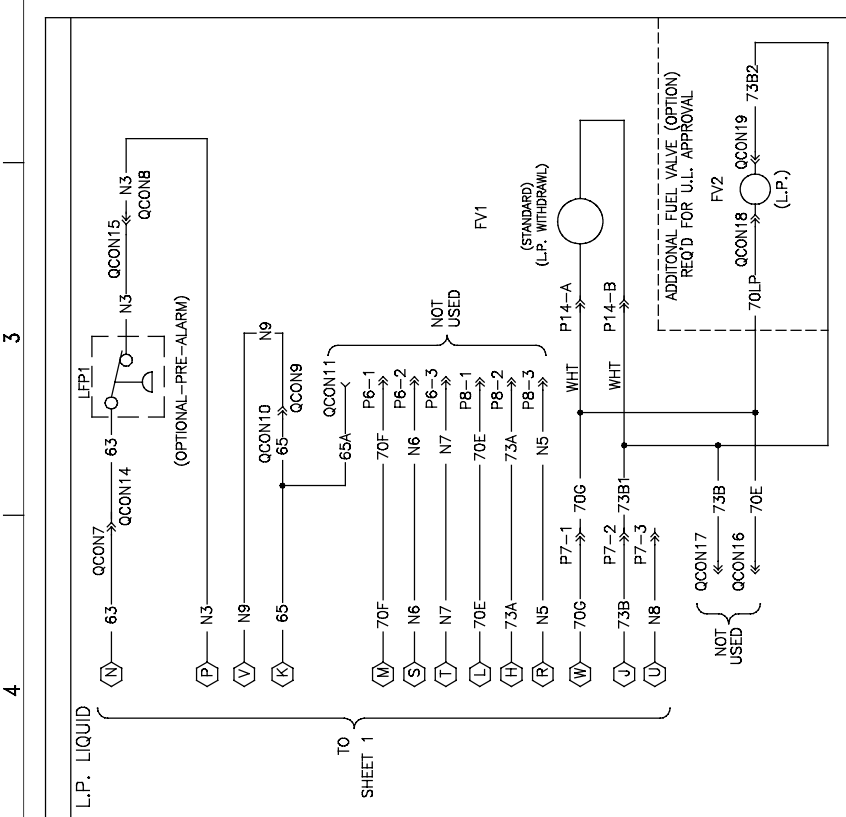
TERMINAL ID	DESCRIPTION	TERMINAL ID	DESCRIPTION
42A	BATTERY VOLTAGE (FUSE #1 PROTECTED)	1	FUSE 1
2	GROUND	2	FUSE 2
3	REMOTE START (ACTIVE LOW)	3	FUSE 3
4	REMOTE START (ACTIVE LOW)	4	FUSE 4
9	CRANK MODE (OPEN=CRANK/GROUND=CONTINUOUS)	5	FUSE 5
9A	CRANK MODE GROUND	6	FUSE 6
12	OVER CRANK INDICATOR	7	FUSE 7
24	+12VDC REGULATOR	8	FUSE 8
26	AUXILIARY INDICATOR	9	FUSE 9
32	COMMON FAULT/PRE-ALARM LINE 1 (ACTIVATED BY LIGHT CONT.)	10	FUSE 10
32A	COMMON FAULT LINE 2 (ACTIVATED BY E-STOP, OS, LOP, HCT, PHCT, LOP, ROP, OS, LCT, OX, LF, AUX. FAULTS)	11	FUSE 11
36	HIGH COOLANT TEMPERATURE INDICATOR	12	FUSE 12
38	LOW OIL PRESSURE INDICATOR	13	FUSE 13
39	OVER SPEED INDICATOR	14	FUSE 14
43	OFF/RESET COMMAND (ACTIVE LOW)	15	FUSE 15
46	AUTO COMMAND (ACTIVE LOW)	16	FUSE 16
47	RUN COMMAND (ACTIVE LOW)	17	FUSE 17
56	AIR DAMPER INDICATOR	18	FUSE 18
60	SYSTEM READY INDICATOR	19	FUSE 19
62	GENERATOR IN COOL DOWN	20	FUSE 20
70C	GENERATOR RUNNING	21	FUSE 21
80	NOT IN AUTO INDICATOR	22	FUSE 22
80	NOT IN AUTO INDICATOR	23	FUSE 23

NOTE: "C" DENOTES CONTACT CLOSED
 "M" DENOTES MAKE BEFORE BREAK CONTACT
 "O" DENOTES CONTACT OPEN

TERMINAL ID	DESCRIPTION	TERMINAL ID	DESCRIPTION
1	FUSE 1	1	FUSE 1
2	FUSE 2	2	FUSE 2
3	FUSE 3	3	FUSE 3
4	FUSE 4	4	FUSE 4
5	FUSE 5	5	FUSE 5
6	FUSE 6	6	FUSE 6
7	FUSE 7	7	FUSE 7
8	FUSE 8	8	FUSE 8
9	FUSE 9	9	FUSE 9
10	FUSE 10	10	FUSE 10
11	FUSE 11	11	FUSE 11
12	FUSE 12	12	FUSE 12
13	FUSE 13	13	FUSE 13
14	FUSE 14	14	FUSE 14
15	FUSE 15	15	FUSE 15
16	FUSE 16	16	FUSE 16
17	FUSE 17	17	FUSE 17
18	FUSE 18	18	FUSE 18
19	FUSE 19	19	FUSE 19
20	FUSE 20	20	FUSE 20
21	FUSE 21	21	FUSE 21
22	FUSE 22	22	FUSE 22
23	FUSE 23	23	FUSE 23



REV	DATE	REVISION	BY
-	6-23-09	NEW DRAWING [87726]	
A	10-14-06	(A-B, B-7, D-3, 5-7) LFP1 & LFP2 GEOMETRY REVISED TO REFLECT CURRENT SWITCH DESIGN [86036]	DPS
B	1-6-10	(C & D-2 THRU -4) L.P. LIQUID WIRING REVISED TO REFLECT CHANGES MADE TO WIRING DIAGRAM & L.P. LIQUID EXTENSION HARNESS; (A & B-1 THRU -4) WIRING DIAGRAM FOR 5.7L TURBO DUAL FUEL ADDED & SEE SHEET 1 [89007]	DPS



DATE	BY	REVISION
6-23-09		NEW DRAWING [87726]
10-14-06	DPS	(A-B, B-7, D-3, 5-7) LFP1 & LFP2 GEOMETRY REVISED TO REFLECT CURRENT SWITCH DESIGN [86036]
1-6-10	DPS	(C & D-2 THRU -4) L.P. LIQUID WIRING REVISED TO REFLECT CHANGES MADE TO WIRING DIAGRAM & L.P. LIQUID EXTENSION HARNESS; (A & B-1 THRU -4) WIRING DIAGRAM FOR 5.7L TURBO DUAL FUEL ADDED & SEE SHEET 1 [89007]

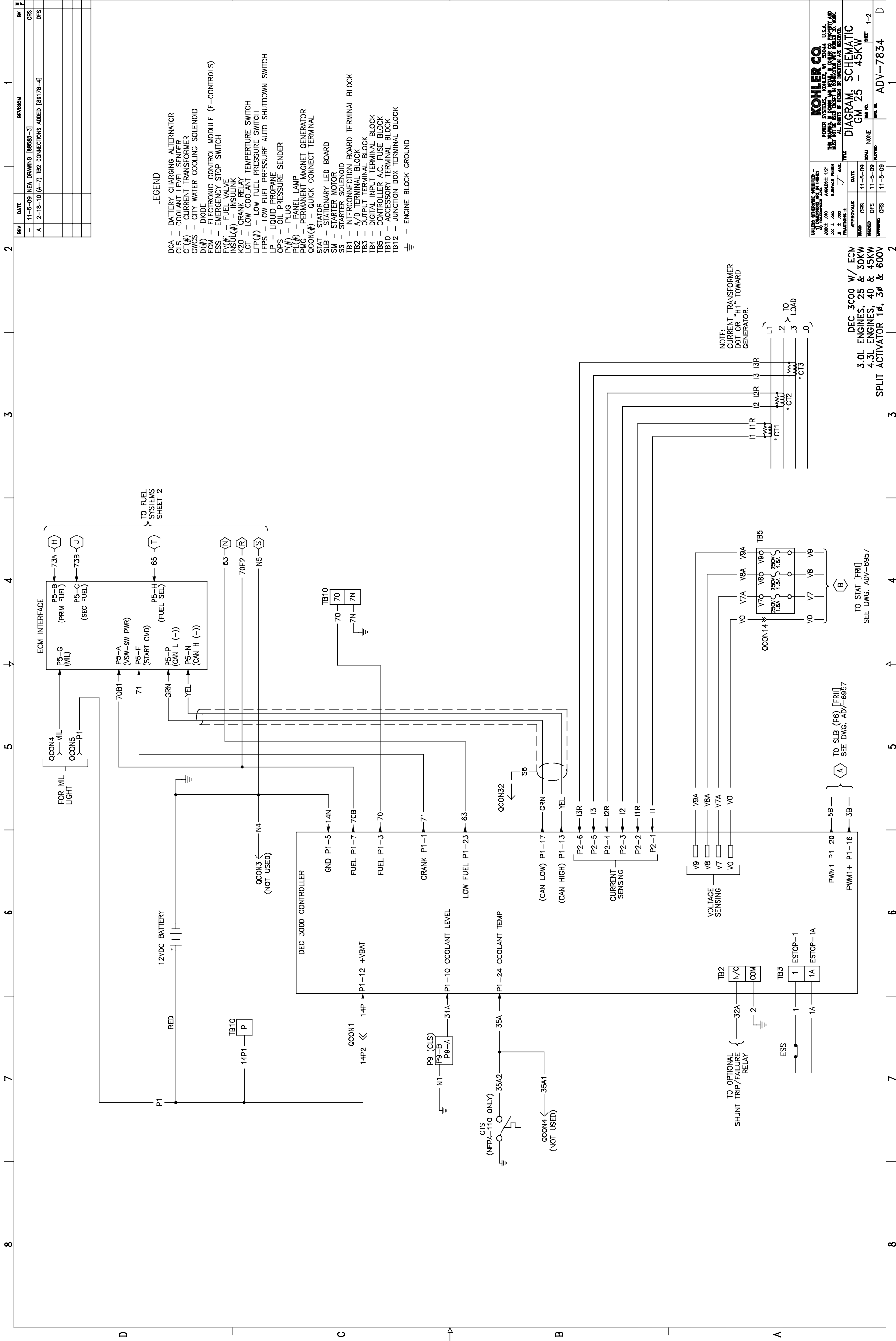
DATE	BY	REVISION
6-23-09		NEW DRAWING [87726]
10-14-06	DPS	(A-B, B-7, D-3, 5-7) LFP1 & LFP2 GEOMETRY REVISED TO REFLECT CURRENT SWITCH DESIGN [86036]
1-6-10	DPS	(C & D-2 THRU -4) L.P. LIQUID WIRING REVISED TO REFLECT CHANGES MADE TO WIRING DIAGRAM & L.P. LIQUID EXTENSION HARNESS; (A & B-1 THRU -4) WIRING DIAGRAM FOR 5.7L TURBO DUAL FUEL ADDED & SEE SHEET 1 [89007]

DEC 3+ W/ ECM
 5.0-8.1L ENGINES
 GM GAS 50-150KW
 SPLIT ACTIVATOR 1 ϕ , 3 ϕ & 600V

KOHLER CO.
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DIAGRAM SCHEMATIC
 GM 50-150 KW

SCALE: NONE
 SHEET: 2-2
 DRAWN: CRG
 CHECKED: CRG
 APPROVED: CRG
 DATE: 6-24-09
 PLOTTED: 6-24-09
 REV. NO.: ADV-7738



LEGEND

- BCA -- BATTERY CHARGING ALTERNATOR
- CLS -- COOLANT LEVEL SENDER
- CT(#)-- CURRENT TRANSFORMER
- CWCS -- CITY WATER COOLING SOLENOID
- D(#)-- DIODE
- ECM -- ELECTRONIC CONTROL MODULE (E--CONTROLS)
- ESS -- EMERGENCY STOP SWITCH
- FV(#)-- FUEL VALVE
- INSUL(#)-- INSULINK
- K20 -- CRANK RELAY
- LCT -- LOW COOLANT TEMPERATURE SWITCH
- LFP(#)-- LOW FUEL PRESSURE SWITCH
- LPPS -- LOW FUEL PRESSURE AUTO SHUTDOWN SWITCH
- LP -- LIQUID PROPANE
- OPS -- OIL PRESSURE SENDER
- P(#)-- PLUG
- PL(#)-- PANEL LAMP
- PMG -- PERMANENT MAGNET GENERATOR
- QCON(#)-- QUICK CONNECT TERMINAL
- STAT -- STATOR
- SLB -- STATIONARY LED BOARD
- SM -- STARTER SOLENOID
- SS -- STARTER MOTOR
- SW -- INTERCONNECTION BOARD TERMINAL BLOCK
- TB1 -- A/D TERMINAL BLOCK
- TB2 -- INTERCONNECTION BOARD TERMINAL BLOCK
- TB3 -- OUTPUT TERMINAL BLOCK
- TB4 -- DIGITAL INPUT TERMINAL BLOCK
- TB5 -- CONTROLLER A.C. FUSE BLOCK
- TB10 -- ACCESSORY TERMINAL BLOCK
- TB12 -- JUNCTION BOX TERMINAL BLOCK
- ≡ -- ENGINE BLOCK GROUND

REV	DATE	REVISION	BY
-	11-5-09	NEW DRAWING [88985-3]	CRS
A	2-18-10	(A-7) TBZ CONNECTIONS ADDED [88178-4]	DPS

UNLESS OTHERWISE SPECIFIED -		U.S.A.	
3) DIMENSIONS ARE IN INCHES		KOHLER CO.	
JOICE # 010		POWER SYSTEMS AND CONTROLS DIVISION	
JOB # 000		THIS DRAWING IS THE PROPERTY OF KOHLER CO. IT IS TO BE USED ONLY FOR THE PROJECT AND MUST NOT BE USED IN CONNECTION WITH ANY OTHER PROJECT.	
PLANT/WORK CENTER #		ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS	DATE	SCALE	NONE
DESIGNED	CRS	11-5-09	1-2
CHECKED	DPS	11-5-09	1-2
APPROVED	CRS	11-5-09	1-2
TITLE		DIAGRAM, SCHEMATIC	
		GM 25 - 45KW	
		ADV-7834	

NOTE: CURRENT TRANSFORMER DOT OR "H1" TOWARD GENERATOR.

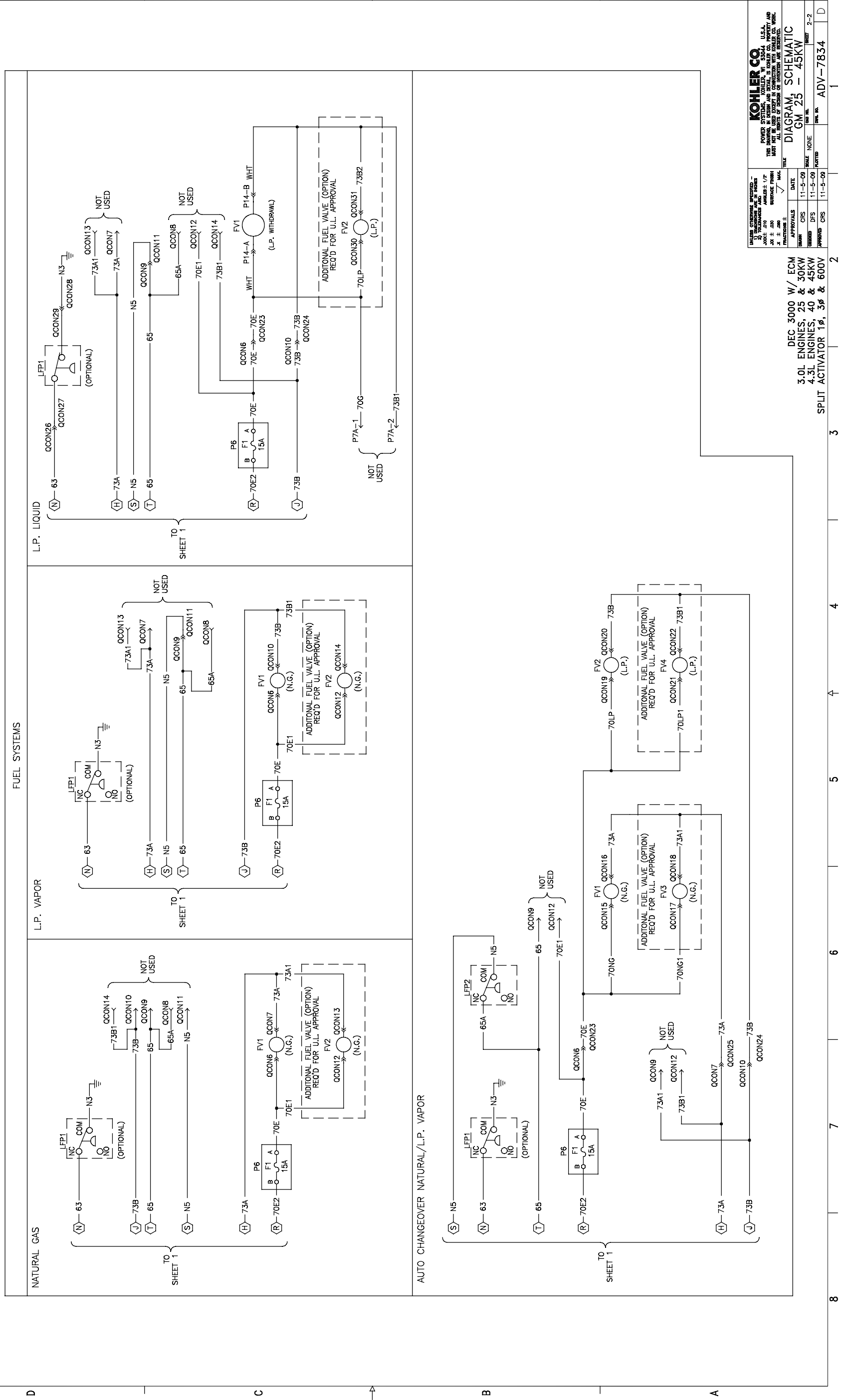
TO FUEL SYSTEMS SHEET 2

TO STAT [FRI] SEE DWG. ADV-6957

TO SLB (P6) [FRI] SEE DWG. ADV-6957

DEC 3000 W/ ECM
3.0L ENGINES, 25 & 30KW
4.3L ENGINES, 40 & 45KW
SPLIT ACTIVATOR 1Ø, 3Ø & 600V

REV	DATE	REVISION	BY
-	11-5-09	NEW DRAWING [88989-3]	CRS
A	2-18-10	SEE SHEET 1 [89178-4]	DPS



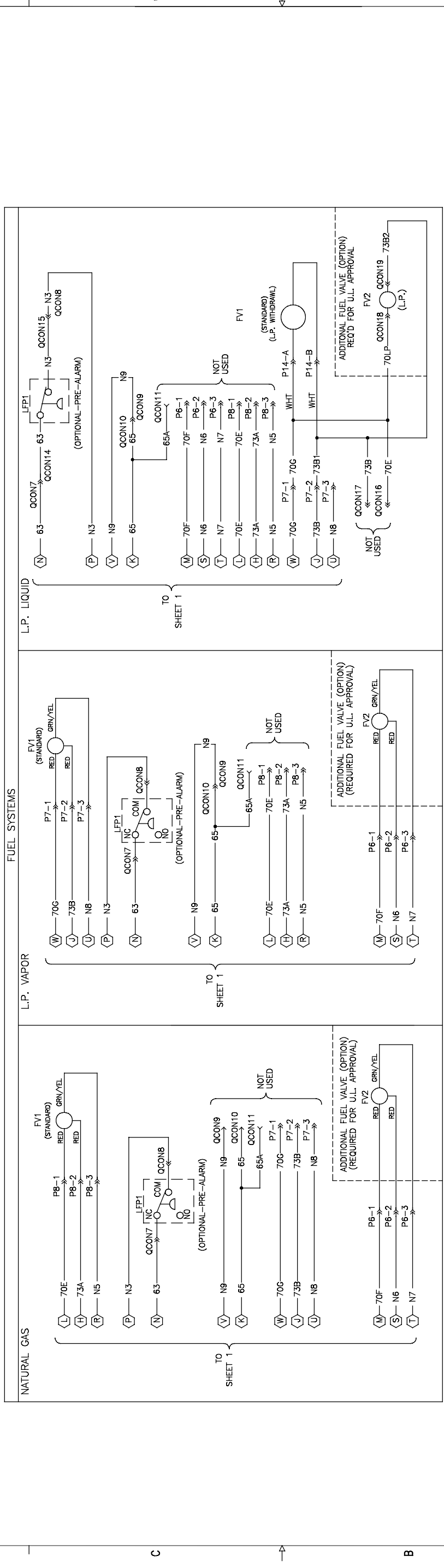
APPROVALS	DATE	SCALE	NO. IN SET	SHEET
DESIGNED	11-5-09	1:1	1	2-2
CHECKED	11-5-09	1:1	1	2-2
APPROVED	11-5-09	1:1	1	2-2

UNLESS OTHERWISE SPECIFIED -
 1) DIMENSIONS ARE IN INCHES
 2) TOLERANCES ARE:
 FRACTIONS ± .005
 DECIMALS ± .010
 ANGLES ± 1/2°
 SURFACE FINISH AS SHOWN
 DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
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 TITLE: **DIAGRAM, SCHEMATIC**
 GM 25 - 45KW
 SCALE: NONE
 PART NO. ADV-7834
 SHEET 2-2

DEC 3000 W/ ECM
 3.0L ENGINES, 25 & 30KW
 4.3L ENGINES, 40 & 45KW
 SPLIT ACTIVATOR 1P, 3P & 600V

REV	DATE	REVISION	BY
-	11-6-08	NEW DRAWING [88585-3]	CRS
A	1-27-10	(C-7 & D-3, 5-7) QCON7 ADDED TO LEAD 63, QCON8 ADDED TO LEAD N3; (A-6) QCON11 ADDED TO LEAD 65A, QCON9 ADDED TO LEAD N9; (A,B,C-1 THRU -4) DUAL FUEL WIRING DIAGRAM FOR 5.7L TURBO ADDED [88617-11]	DFS
B	2-18-10	(A-1) SHEET 2-3 WAS 2-2; AUTO CHANGED OVER NATURAL/L.P. GAS FUEL SYSTEMS MOVED TO SHEET 3 & SEE SHEETS 1 & 3 [88178-4] DFS	DFS



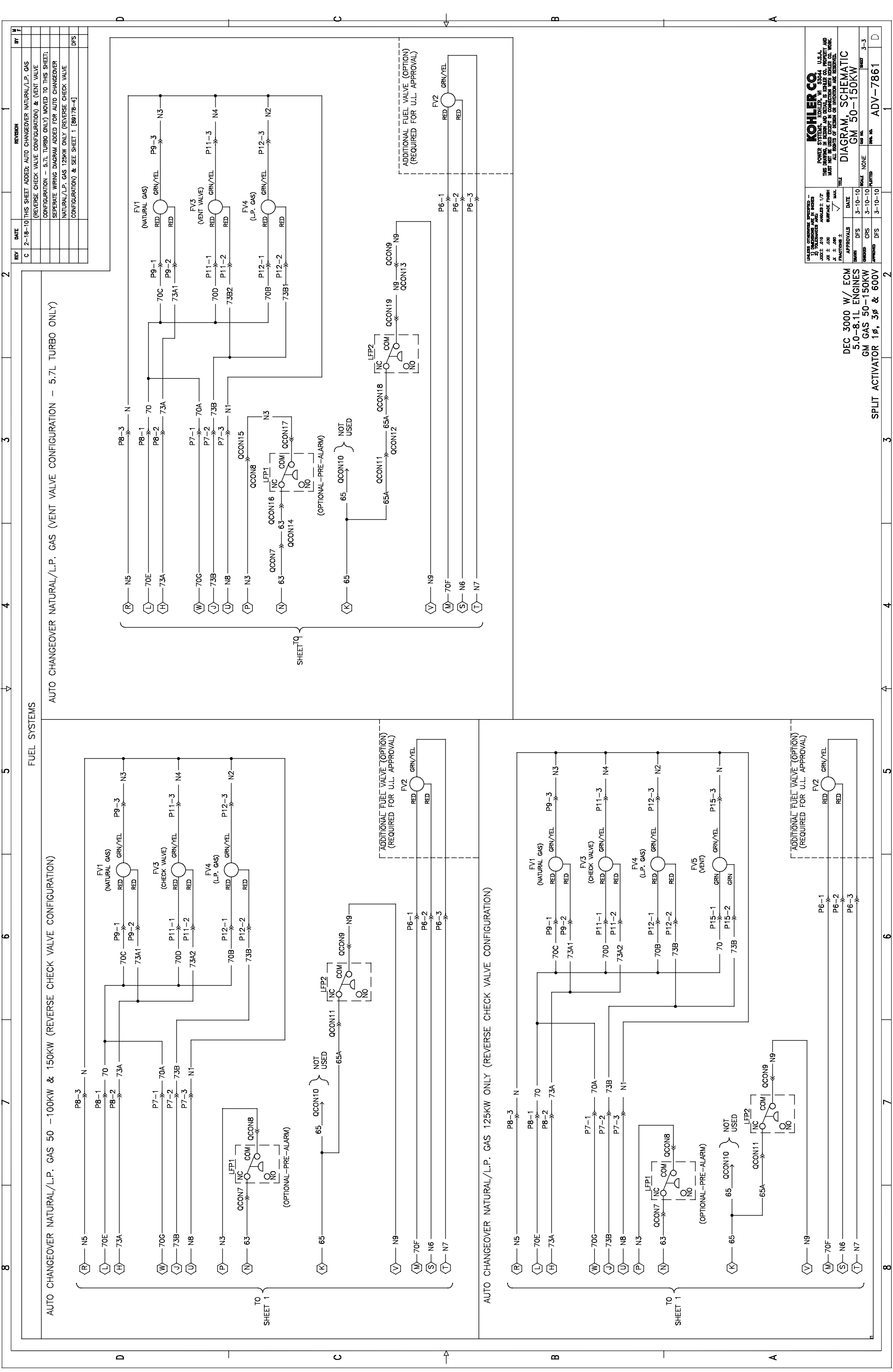
REV	DATE	REVISION	BY
-	11-6-08	NEW DRAWING [88585-3]	CRS
A	1-27-10	(C-7 & D-3, 5-7) QCON7 ADDED TO LEAD 63, QCON8 ADDED TO LEAD N3; (A-6) QCON11 ADDED TO LEAD 65A, QCON9 ADDED TO LEAD N9; (A,B,C-1 THRU -4) DUAL FUEL WIRING DIAGRAM FOR 5.7L TURBO ADDED [88617-11]	DFS
B	2-18-10	(A-1) SHEET 2-3 WAS 2-2; AUTO CHANGED OVER NATURAL/L.P. GAS FUEL SYSTEMS MOVED TO SHEET 3 & SEE SHEETS 1 & 3 [88178-4] DFS	DFS

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DIAGRAM SCHEMATIC
 GM 50-150KW

DEC 3000 W/ ECM
 5.0-8.1L ENGINES
 GM GAS 50-150KW
 SPLIT ACTIVATOR 1φ, 3φ & 600V

ADV-7861



REV	DATE	REVISION
C	2-18-10	THIS SHEET ADDED; AUTO CHANGEOVER NATURAL/L.P. GAS (REVERSE CHECK VALVE CONFIGURATION) & (VENT VALVE CONFIGURATION - 5.7L TURBO ONLY) MOVED TO THIS SHEET; SEPARATE WIRING DIAGRAM ADDED FOR AUTO CHANGEOVER NATURAL/L.P. GAS 125KW ONLY (REVERSE CHECK VALVE CONFIGURATION) & SEE SHEET 1 [88178-4]

DATE	BY	REV
3-10-10	DFS	1
3-10-10	DFS	2
3-10-10	DFS	3

DATE	BY	REV
3-10-10	DFS	1
3-10-10	DFS	2
3-10-10	DFS	3

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DIAGRAM, SCHEMATIC
 GM 50-150KW

DEC 3000 W/ ECM
 5.0-8.1L ENGINES
 GM GAS 50-150KW
 SPLIT ACTIVATOR 1φ, 3φ & 600V

ADV-7861

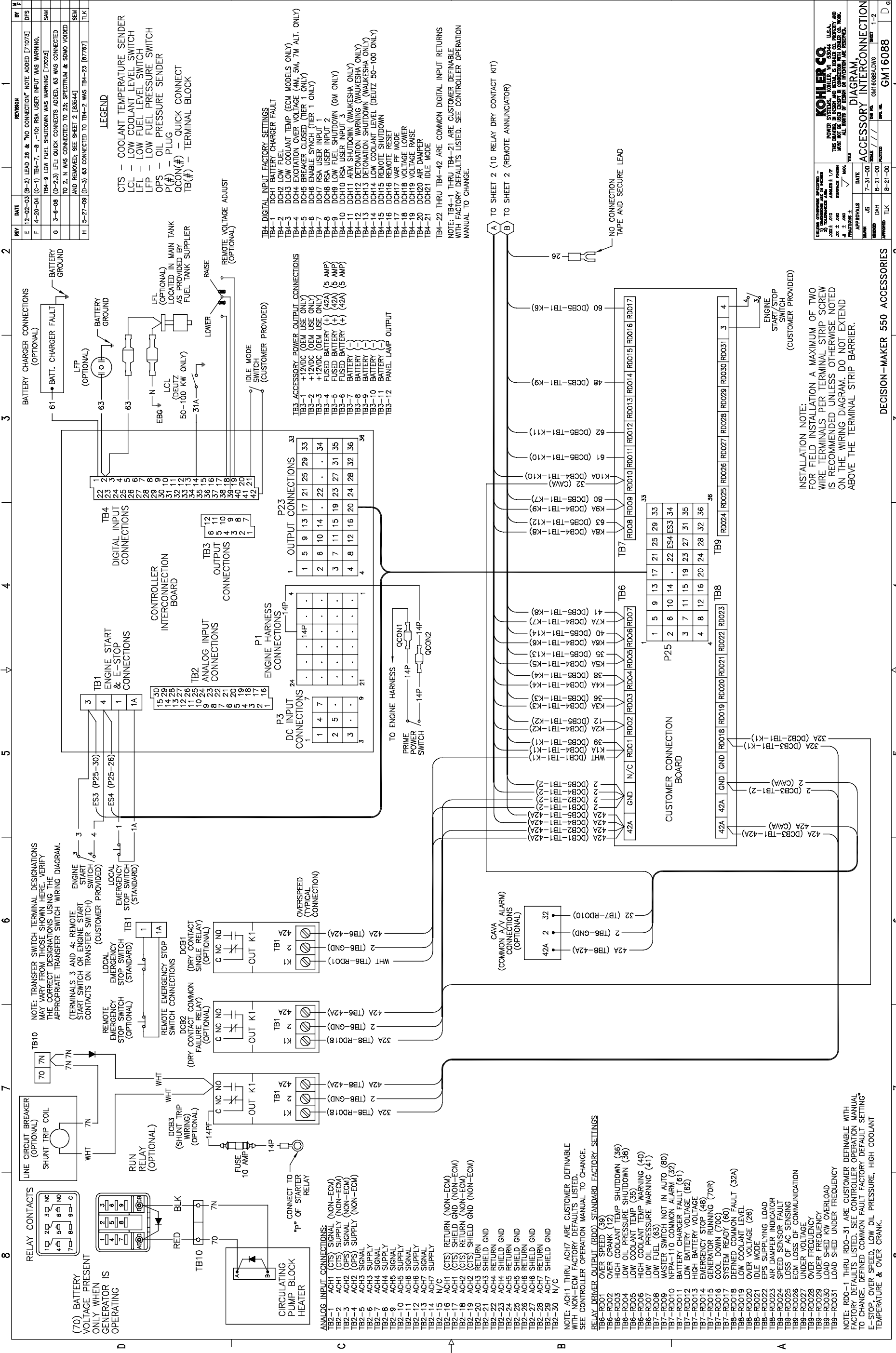


DIAGRAM ACCESSORY INTERCONNECTION

APPROVALS	DATE	BY	CHK
DESIGNED	7-31-00	SAW	TLK
CHECKED	8-21-00	DWH	TLK
APPROVED	8-21-00	TLK	TLK

DATE: 7-31-00
DRAWN: DWH
CHECKED: TLK
APPROVED: TLK

PROJECT: GM16088

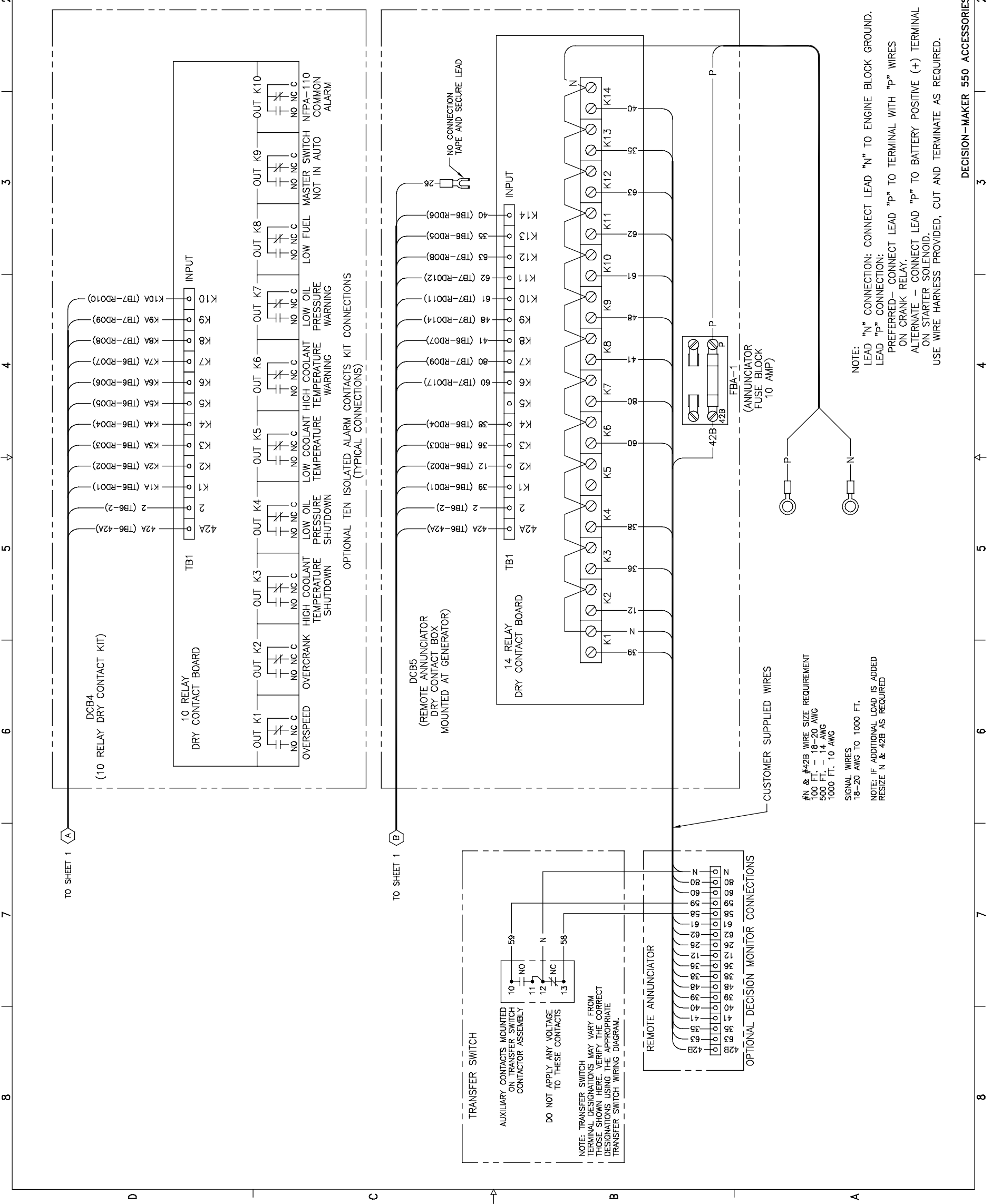
REV: 1-2

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.

DECISION-MAKER 550 ACCESSORIES

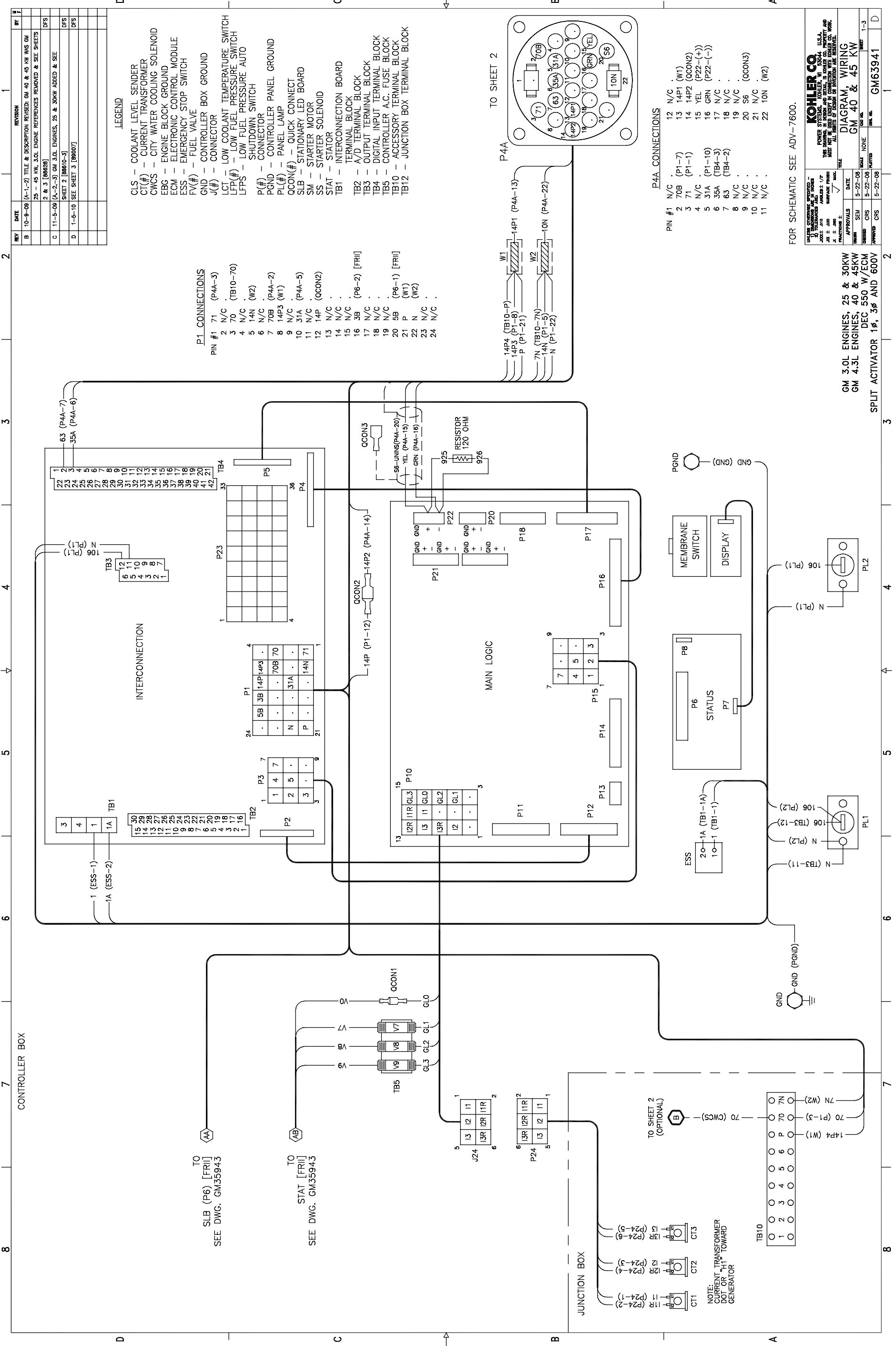
Terminal	Signal
1	42A
2	42A
3	42A
4	42A
5	42A
6	42A
7	42A
8	42A
9	42A
10	42A
11	42A
12	42A
13	42A
14	42A
15	42A
16	42A
17	42A
18	42A
19	42A
20	42A
21	42A
22	42A
23	42A
24	42A
25	42A
26	42A
27	42A
28	42A
29	42A
30	42A
31	42A
32	42A
33	42A
34	42A
35	42A
36	42A

REV	DATE	REVISION	BY
C	8-15-01	SEE SHEET 1 OF 2 [86037]	DPS
D	11-16-01	SEE SHEET 1 OF 2 [86667]	DPS
E	12-2-03	(C-3) LEAD 26 & "NO CONNECTION" NOTE ADDED [71073]	DPS
F	4-20-04	(A-4) LEAD CONNECTION NOTE UPDATED [72023]	SAW
G	3-6-08	SPECTRUM & SOMO VOIDED & REMOVED; SEE SHEET 1 [83544]	SEM
H	5-27-08	SEE SHEET 1 OF 2 [87767]	TLK



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	SCALE	GM PART NO.	GM16088	SHEET
DESIGNED	8-1-00	1/2"	GM16088	GM16088	2-2
CHECKED	8-21-00	1/2"	GM16088	GM16088	2-2
APPROVED	TLK	1/2"	GM16088	GM16088	2-2



REV	DATE	REVISION	BY
B	10-9-08	(A-1-2) TITLE & DESCRIPTION REVISED; GM 4.0 & 4.5 KW W/US GM 25 & 45 KW, 3.0L ENGINE REFERENCES REMOVED & SEE SHEETS 2 & 3 [88629]	DPS
C	11-5-09	(A-2-3) GM 3.0L ENGINES, 25 & 30KW ADDED & SEE SHEET 2 [8810-3]	DPS
D	1-5-10	SEE SHEET 3 [8907]	DPS

LEGEND

- CLS - COOLANT LEVEL SENDER
- CT(#)- CURRENT TRANSFORMER
- CWCS - CITY WATER COOLING SOLENOID
- EBC - ENGINE BLOCK GROUND
- ECM - ELECTRONIC CONTROL MODULE
- ESS - EMERGENCY STOP SWITCH
- FV(#)- FUEL VALVE
- GND - CONTROLLER BOX GROUND
- J(#)- CONNECTOR
- LCT - LOW COOLANT TEMPERATURE SWITCH
- LFP(#)- LOW FUEL PRESSURE SWITCH
- LFP5 - LOW FUEL PRESSURE AUTO SHUTDOWN SWITCH
- P(#)- CONNECTOR
- PGND - CONTROLLER PANEL GROUND
- PL(#)- PANEL LAMP
- QCON(#)- QUICK CONNECT
- SLB - STATIONARY LED BOARD
- SM - STARTER MOTOR
- SS - STARTER SOLENOID
- STAT - STATOR
- TB1 - INTERCONNECTION BOARD
- TB2 - TERMINAL BLOCK
- TB3 - A/D TERMINAL BLOCK
- TB4 - OUTPUT TERMINAL BLOCK
- TB5 - DIGITAL INPUT TERMINAL BLOCK
- TB6 - CONTROLLER A.C. FUSE BLOCK
- TB10 - ACCESSORY TERMINAL BLOCK
- TB12 - JUNCTION BOX TERMINAL BLOCK

P1 CONNECTIONS

- PIN #1 71 (P4A-3)
- 2 N/C
- 3 70 (TB10-70)
- 4 N/C
- 5 14N (W2)
- 6 N/C
- 7 70B (P4A-2)
- 8 14P3 (W1)
- 9 N/C
- 10 31A (P4A-5)
- 11 N/C
- 12 14P (OCON2)
- 13 N/C
- 14 N/C
- 15 N/C
- 16 3B (P6-2) [FR1]
- 17 N/C
- 18 N/C
- 19 N/C
- 20 5B (P6-1) [FR1]
- 21 P (W1)
- 22 N (W2)
- 23 N/C
- 24 N/C

P44 CONNECTIONS

- PIN #1 N/C
- 2 70B (P1-7)
- 3 71 (P1-1)
- 4 N/C
- 5 31A (P1-10)
- 6 35A (TB4-3)
- 7 63 (TB4-2)
- 8 N/C
- 9 N/C
- 10 N/C
- 11 N/C
- 12 N/C
- 13 14P1 (W1)
- 14 14P2 (OCON2)
- 15 YEL (P22-+)
- 16 GRN (P22--)
- 17 N/C
- 18 N/C
- 19 N/C
- 20 S6 (OCON3)
- 21 N/C
- 22 10N (W2)

FOR SCHEMATIC SEE ADV-7600.

UNLESS OTHERWISE SPECIFIED -	DATE	SCALE	NO.	REV.	BY
3/16" (1:1)	5-22-08	5-22-08			
1/8" (1:2)	5-22-08	5-22-08			
1/4" (1:4)	5-22-08	5-22-08			
1/2" (1:8)	5-22-08	5-22-08			
3/4" (1:12)	5-22-08	5-22-08			
1" (1:16)	5-22-08	5-22-08			
1 1/2" (1:24)	5-22-08	5-22-08			
2" (1:32)	5-22-08	5-22-08			
3" (1:48)	5-22-08	5-22-08			
4" (1:64)	5-22-08	5-22-08			
5" (1:80)	5-22-08	5-22-08			
6" (1:96)	5-22-08	5-22-08			
8" (1:128)	5-22-08	5-22-08			
10" (1:160)	5-22-08	5-22-08			
12" (1:192)	5-22-08	5-22-08			
15" (1:240)	5-22-08	5-22-08			
20" (1:320)	5-22-08	5-22-08			
24" (1:384)	5-22-08	5-22-08			
30" (1:480)	5-22-08	5-22-08			
36" (1:576)	5-22-08	5-22-08			
42" (1:672)	5-22-08	5-22-08			
48" (1:768)	5-22-08	5-22-08			
60" (1:960)	5-22-08	5-22-08			
72" (1:1152)	5-22-08	5-22-08			
90" (1:432)	5-22-08	5-22-08			
108" (1:360)	5-22-08	5-22-08			
126" (1:252)	5-22-08	5-22-08			
144" (1:144)	5-22-08	5-22-08			
162" (1:81)	5-22-08	5-22-08			
180" (1:45)	5-22-08	5-22-08			
216" (1:36)	5-22-08	5-22-08			
270" (1:27)	5-22-08	5-22-08			
324" (1:18)	5-22-08	5-22-08			
378" (1:12)	5-22-08	5-22-08			
432" (1:9)	5-22-08	5-22-08			
540" (1:5)	5-22-08	5-22-08			
648" (1:4)	5-22-08	5-22-08			
810" (1:3)	5-22-08	5-22-08			
1080" (1:2)	5-22-08	5-22-08			
1296" (1:1)	5-22-08	5-22-08			

GM 3.0L ENGINES, 25 & 30KW
 GM 4.3L ENGINES, 40 & 45KW
 DEC 550 W/ECM
 SPLIT ACTIVATOR 1φ, 3φ AND 600V

KOHLER CO.
 U.S.A.
 POWER SYSTEMS AND CONTROLS
 10000 WILSON AVENUE
 JACKSONVILLE, FLORIDA 32218
 PHONE: 904-370-1000
 FAX: 904-370-1001
 E-MAIL: SALES@KOHLER.COM
 ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.

DIAGRAM, WIRING
 GM 40 & 45 KW

APPROVALS: DATE: 5-22-08
 DESIGNED: SEM: 5-22-08
 CHECKED: CRS: 5-22-08
 APPROVED: CRS: 5-22-08

SCALE: NONE
 SHEET: 1-3
 PART NO.: GM63941

FOR SCHEMATIC SEE ADV-7600.

UNLESS OTHERWISE SPECIFIED -
 3/16" (1:1)
 1/8" (1:2)
 1/4" (1:4)
 1/2" (1:8)
 3/4" (1:12)
 1" (1:16)
 1 1/2" (1:24)
 2" (1:32)
 3" (1:48)
 4" (1:64)
 5" (1:80)
 6" (1:96)
 8" (1:128)
 10" (1:160)
 12" (1:192)
 15" (1:240)
 20" (1:320)
 24" (1:384)
 30" (1:480)
 36" (1:576)
 42" (1:672)
 48" (1:768)
 60" (1:960)
 72" (1:1152)
 90" (1:432)
 108" (1:360)
 126" (1:252)
 144" (1:144)
 162" (1:81)
 180" (1:45)
 216" (1:36)
 270" (1:27)
 324" (1:18)
 378" (1:12)
 432" (1:9)
 540" (1:5)
 648" (1:4)
 810" (1:3)
 1080" (1:2)
 1296" (1:1)

NOTE: CURRENT TRANSFORMER
 DOT OR "H1" TOWARD
 GENERATOR

TO SHEET 2 (OPTIONAL)
 70 (W2)
 70 (P1-3)
 14P4 (W1)

TO SHEET 2 (OPTIONAL)
 70 (W2)
 70 (P1-3)
 14P4 (W1)

TO SHEET 2 (OPTIONAL)
 70 (W2)
 70 (P1-3)
 14P4 (W1)

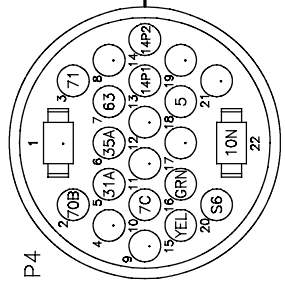
TO SHEET 2 (OPTIONAL)
 70 (W2)
 70 (P1-3)
 14P4 (W1)

TO SHEET 2 (OPTIONAL)
 70 (W2)
 70 (P1-3)
 14P4 (W1)

TO SHEET 2 (OPTIONAL)
 70 (W2)
 70 (P1-3)
 14P4 (W1)

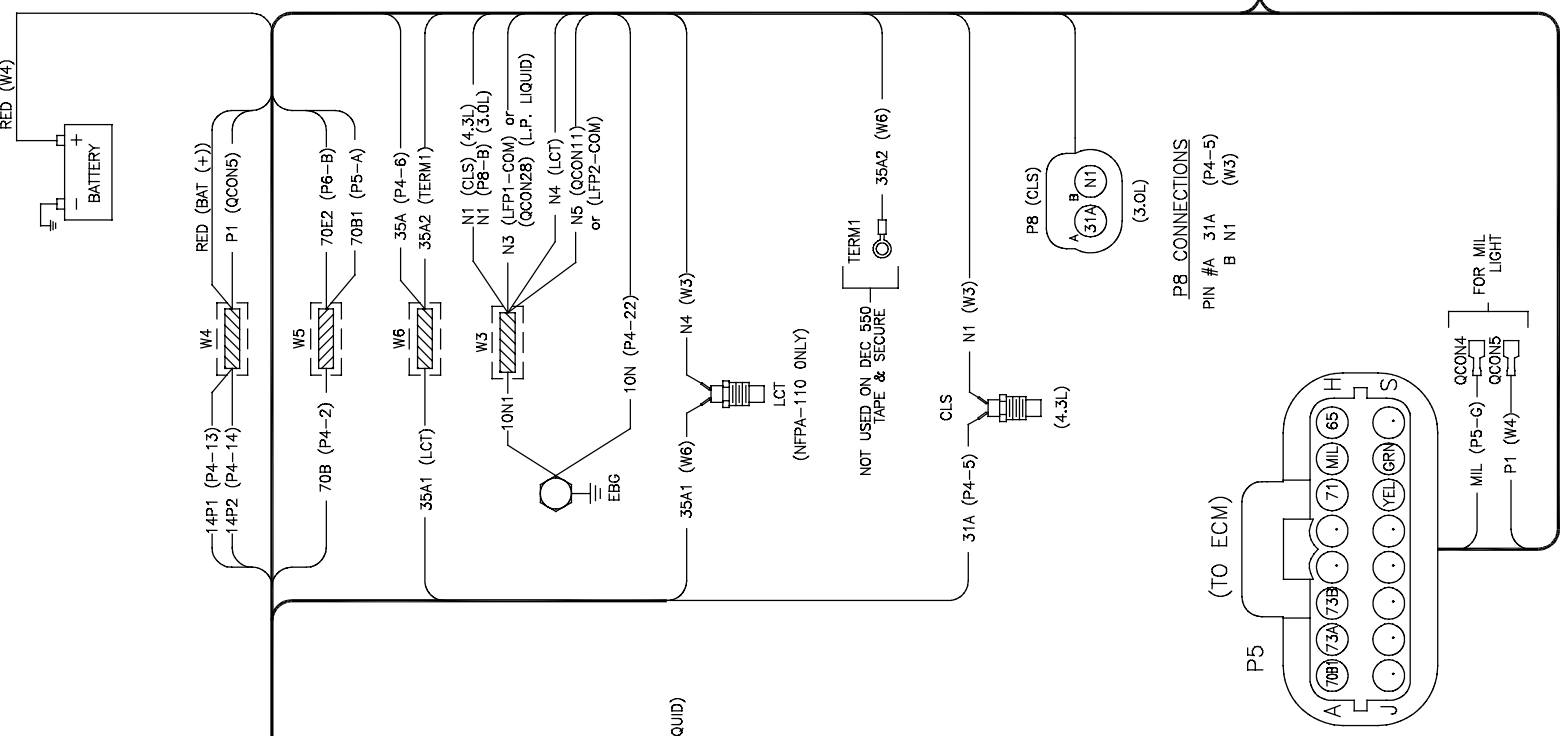
REV	DATE	REVISION	BY
B	10-9-08	(B & C-3) LFP1 GEOMETRY REVISED (2 PLACES) TO REFLECT CURRENT SWITCH DESIGN; (A-1,-2) TITLE & DESCRIPTION REVISED; 40 & 45 KW WAS 25 - 45 KW, 3.0L ENGINE REFERENCES REMOVED & SEE SHEETS 1 & 3 [88628]	DFS
C	11-5-09	(A-2,-3) GM 3.0L ENGINES, 25 & 30KW ADDED; (B-C-6 & -7) "NOT USED" LEADS 5 & 7C REMOVED, "NOT USED" LEAD 35A2 & TERM1 ADDED, (NPPA-110 ONLY) ADDED TO LCT, PB (CLS) (3.0L) ADDED [88610-3]	DFS
D	1-5-10	SEE SHEET 3 [88007]	DFS

FUEL SYSTEMS



P4 CONNECTIONS

- PIN #1 N/C (W6)
- 2 70B (P5-F)
- 3 71 (P5-F)
- 4 N/C
- 5 31A (CLS) (4.3L)
- 6 35A (W6)
- 7 63 (LFP1-NC or (QCON26) (L.P. LIQUID)
- 8 N/C
- 9 N/C
- 10 7C (NOT USED)
- 11 N/C
- 12 N/C
- 13 14P1 (W4)
- 14 14P2 (W4)
- 15 YEL (P5-P)
- 16 GRN (P5-R)
- 17 N/C
- 18 5 (NOT USED)
- 19 N/C
- 20 S6 (P5)
- 21 N/C
- 22 10N (EBG)



TO FUEL SYSTEMS THIS SHEET & SHEET 3

NATURAL GAS

TO ENGINE THIS SHEET

L.P. VAPOR

TO ENGINE THIS SHEET

ADDITIONAL FUEL VALVE (OPTION) REQUIRED FOR U.L. APPROVAL

ADDITIONAL FUEL VALVE (OPTION) REQUIRED FOR U.L. APPROVAL

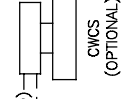
P5 CONNECTIONS

- PIN #A 70B1 (W5)
- B 73A (QCON7)
- C 73B (QCON10)
- D N/C
- E N/C
- F 71 (P4-3)
- G MIL (QCON4)
- H 65 (QCON9)
- J N/C
- K N/C
- L N/C
- M N/C
- N N/C
- P YEL (P4-15)
- R GRN (P4-16)
- S N/C

P8 CONNECTIONS

- PIN #A 31A (P4-5)
- B N1 (W3)

TO SHEET 1 (B) - 70 (TB10-70)



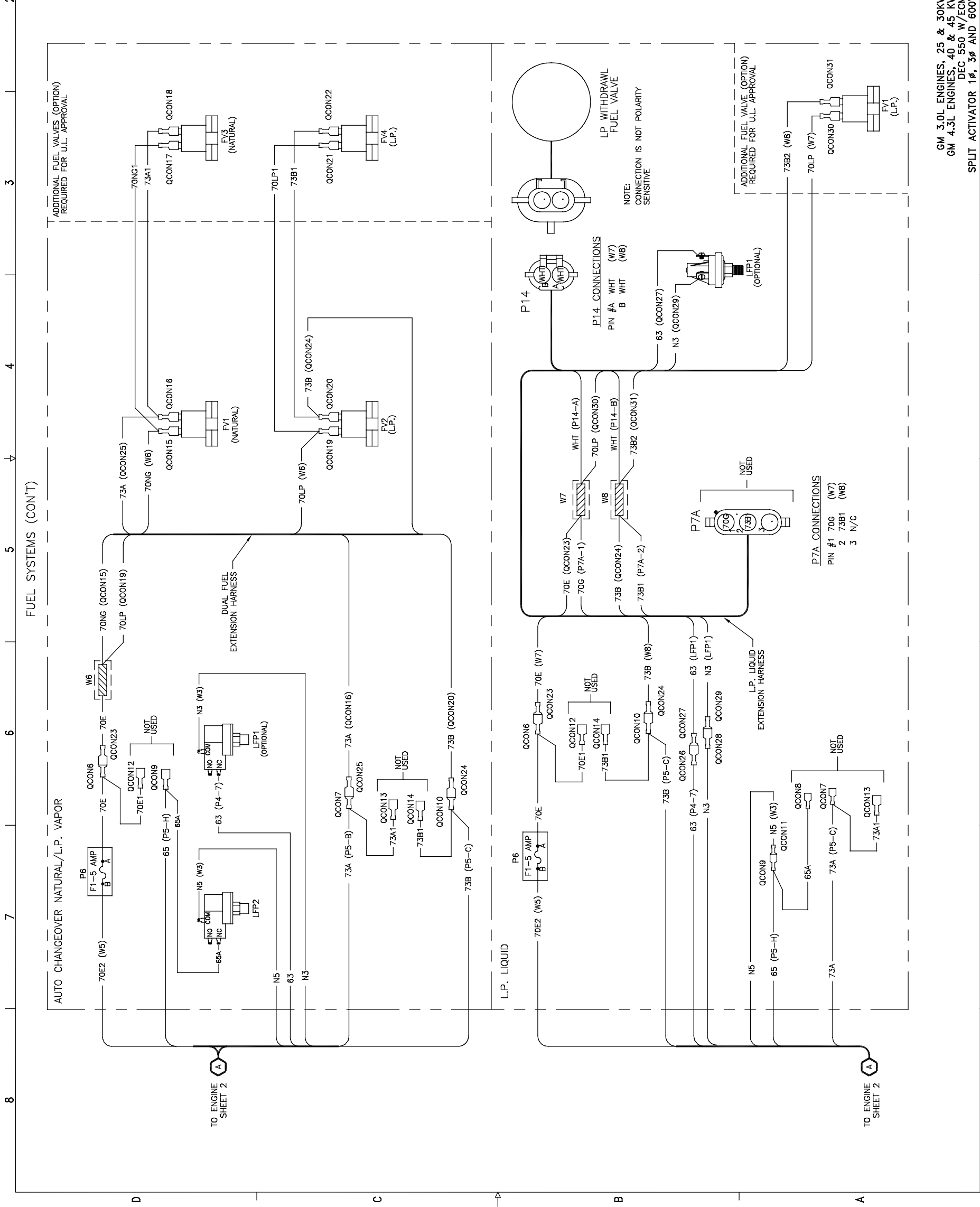
UNLESS OTHERWISE INDICATED -	U.S.A.
3) TOLERANCES UNLESS OTHERWISE SPECIFIED: ANGLES ± 1/2° SURFACE FINISH: AS SHOWN	U.S.A.
THIS DRAWING IS UNCLASSIFIED AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF KOHLER CO.	U.S.A.
DATE	5-22-08
APPROVALS	DATE
DESIGNED BY: SEM	5-22-08
CHECKED BY: CRS	5-22-08
APPROVED BY: CRS	5-22-08
SCALE	NONE
DRAWING NO.	GM 40 & 45 KW
REV. NO.	2-3
FIG. NO.	GM63941

GM 3.0L ENGINES, 25 & 30KW
GM 4.3L ENGINES, 40 & 45 KW
DEC 550 W/ ECM
SPLIT ACTIVATOR 1P, 3P AND 600V

DIAGRAM, WIRING

GM 40 & 45 KW

REV	DATE	REVISION	BY
B	10-9-09	"P14" CONNECTOR REVISED (PIN A & B REVERSED) & PIN LETTERS REMOVED FROM WIRING CONNECTOR (B-7, D-6-7)	
		LFP1 & LFP2 GEOMETRY REVISED TO REFLECT CURRENT SWITCH DESIGN; (A-2-3) TITLE & DESCRIPTION REVISED; 40 & 45 KW WAS 25 - 45 KW, 3.0L ENGINE REFERENCES REMOVED & SEE SHEETS 1 & 2 [88628]	
C	11-5-09	GM 3.0L ENGINES, 25 & 30KW ADDED & SEE SHEET 2 [88610-3]	
D	1-5-09	L.P. LIQUID WIRING REVISED TO REFLECT CURRENT EXTENSION HARNESS REVISIONS & CORRECT LFP1 GEOMETRY [80007]	



UNLESS OTHERWISE SPECIFIED -	DATE	DATE	SCALE	UNL. NO.	REV. NO.
3) DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN MILLIMETERS	DATE	DATE	SCALE	UNL. NO.	REV. NO.
1) DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES	DATE	DATE	SCALE	UNL. NO.	REV. NO.
2) DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN MILLIMETERS	DATE	DATE	SCALE	UNL. NO.	REV. NO.

KOHLER CO. U.S.A.
 POWER SYSTEMS DIVISION, 10000 WILLOW CREEK DRIVE, WILLOW CREEK, CO. 80190
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DIAGRAM, WIRING
GM 40 & 45 KW

APPROVALS:

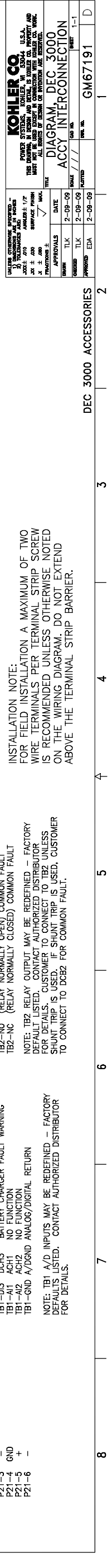
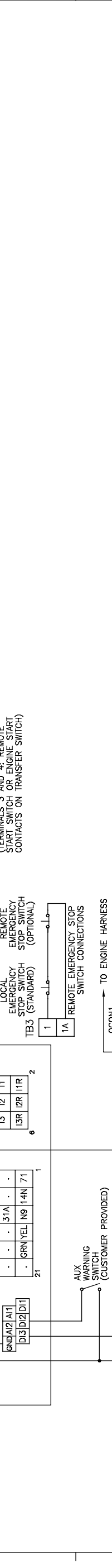
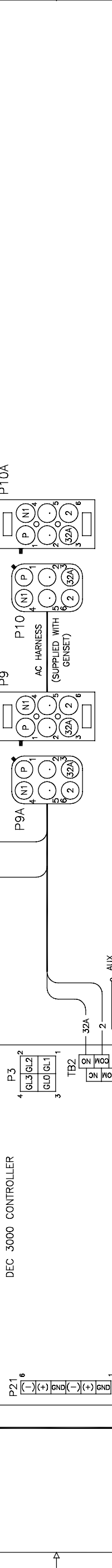
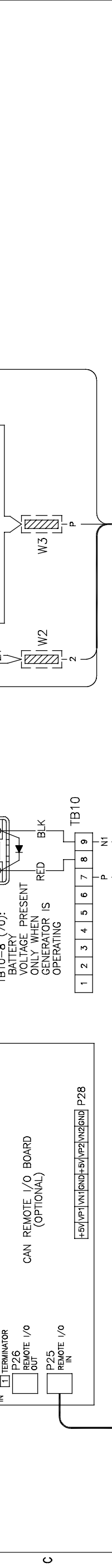
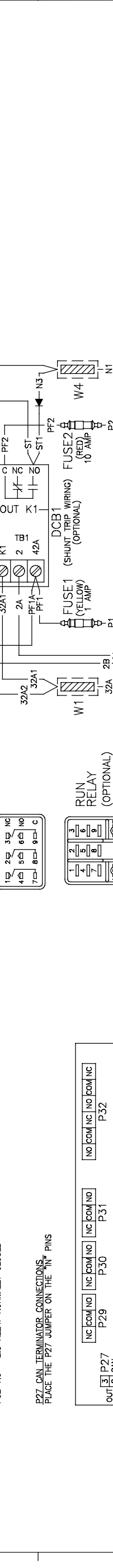
DESIGNED	CRS	7-1-09
DRAWN	DPS	8-30-09
CHECKED	CRS	7-1-09
APPROVED	CRS	7-1-09

 SHEET 3-3
 GM 63941

GM 3.0L ENGINES, 25 & 30KW
GM 4.3L ENGINES, 40 & 45 KW
DEC 550 W/ECM
SPLIT ACTIVATOR 1φ, 3φ AND 600V

REV	DATE	REVISION	BY	CHK
-	2-09-09	NEW DRAWING [87731]		TJK
A	11-24-09	[D-6, A-7, A-6] NOTES UPDATED [88773]		TJK

- P28 2 AMP RELAY OUTPUT (2.1) CONNECTIONS**
P28-NC 2.1 RELAY NORMALLY CLOSED
P28-COM 2.1 RELAY COMMON
P28-NO 2.1 RELAY NORMALLY OPEN
- P30 2 AMP RELAY OUTPUT (2.2) CONNECTIONS**
P30-NC 2.2 RELAY NORMALLY CLOSED
P30-COM 2.2 RELAY COMMON
P30-NO 2.2 RELAY NORMALLY OPEN
- P31 2 AMP RELAY OUTPUT (2.3) CONNECTIONS**
P31-NC 2.3 RELAY NORMALLY CLOSED
P31-COM 2.3 RELAY COMMON
P31-NO 2.3 RELAY NORMALLY OPEN
- P32 10 AMP RELAY OUTPUT (2.4 & 2.5) CONNECTIONS**
P32-NO 2.4 RELAY NORMALLY OPEN
P32-COM 2.4 RELAY COMMON
P32-NC 2.4 RELAY NORMALLY CLOSED
P32-NO 2.5 RELAY NORMALLY OPEN
P32-COM 2.5 RELAY COMMON
P32-NC 2.5 RELAY NORMALLY CLOSED
- P27 CAN TERMINATOR CONNECTIONS**
PLACE THE P27 JUMPER ON THE "IN" PINS
- P26 REMOTE I/O BOARD (OPTIONAL)**
P26-OUT CAN TERMINATOR
P26-IN REMOTE I/O
P25-OUT REMOTE I/O
P25-IN REMOTE I/O
- P29 CAN REMOTE I/O BOARD (OPTIONAL)**
P29-OUT CAN TERMINATOR
P29-IN REMOTE I/O
P30-OUT CAN TERMINATOR
P30-IN REMOTE I/O
P31-OUT CAN TERMINATOR
P31-IN REMOTE I/O
P32-OUT CAN TERMINATOR
P32-IN REMOTE I/O
- P28 SINGLE-ENDED (0-5V) ANALOG INPUT CONNECTIONS**
P28-GND AGND ANALOG RETURN
P28-VI2 NO CONNECTION
P28-VI1 SUPPLY SIGNAL (0.05 AMP MAX)
P28-VI0 SUPPLY SIGNAL (0.05 AMP MAX)
P28-VI3 NO CONNECTION
P28-VI4 NO CONNECTION
P28-VI5 NO CONNECTION
P28-VI6 NO CONNECTION
P28-VI7 NO CONNECTION
P28-VI8 NO CONNECTION
P28-VI9 NO CONNECTION
P28-VI10 NO CONNECTION
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P28-VI95 NO CONNECTION
P28-VI96 NO CONNECTION
P28-VI97 NO CONNECTION
P28-VI98 NO CONNECTION
P28-VI99 NO CONNECTION
P28-VI100 NO CONNECTION



P21 RS485 NON-ISOLATED CONNECTIONS
P21-1 GND
P21-2 +
P21-3 -
P21-4 GND
P21-5 +
P21-6 -

TB1 ANALOG/DIGITAL INPUT FACTORY SETTINGS
TB1-D11 DCH1 NO FUNCTION
TB1-D12 DCH2 AUX WARNING
TB1-D13 DCH3 BATTERY CHARGER FAULT WARNING
TB1-A11 ACH1 NO FUNCTION
TB1-A12 ACH2 NO FUNCTION
TB1-GND A/DGND ANALOG/DIGITAL RETURN
NOTE: TB1 A/D INPUTS MAY BE REDEFINED - FACTORY DEFAULTS LISTED. CONTACT AUTHORIZED DISTRIBUTOR FOR DETAILS.

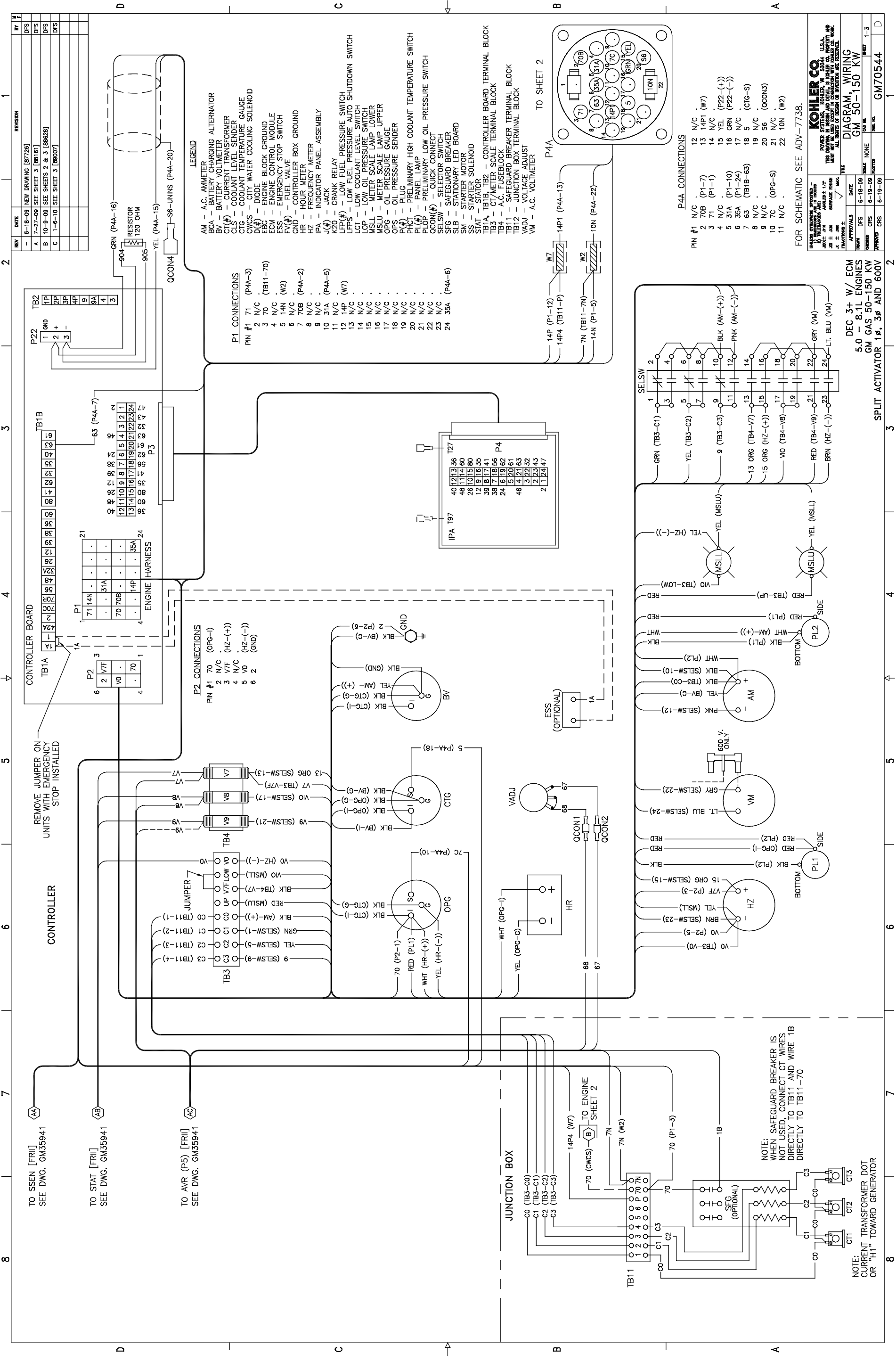
TB2 RELAY OUTPUT
TB2-COM (RELAY COMMON) COMMON FAULT
TB2-COM (RELAY COMMON) COMMON FAULT
TB2-NO (RELAY NORMALLY OPEN) COMMON FAULT
TB2-NC (RELAY NORMALLY CLOSED) COMMON FAULT
NOTE: TB2 RELAY OUTPUT MAY BE REDEFINED - FACTORY DEFAULT LISTED. CUSTOMER TO CONNECT TO TB2 UNLESS SHUNT TRIP IS USED. IF SHUNT TRIP IS USED, CUSTOMER TO CONNECT TO DCB2 FOR COMMON FAULT.

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.

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 SWITCH OR ENGINE START CONTACTS ON TRANSFER SWITCH)

LEGEND
P(#)- PLUG
QCON(#)- QUICK CONNECT
TB(#)- TERMINAL BLOCK
W(#)- SONIC WELD

UNLESS OTHERWISE INDICATED -	DATE	SCALE	BY	CHK
3) DIMENSIONS UNLESS OTHERWISE SPECIFIED - MILLIMETERS	2-09-09	1:1	TJK	TJK
4) DIMENSIONS UNLESS OTHERWISE SPECIFIED - INCHES	2-09-09	1:1	TJK	TJK
5) DIMENSIONS UNLESS OTHERWISE SPECIFIED - MILLIMETERS	2-09-09	1:1	TJK	TJK
6) DIMENSIONS UNLESS OTHERWISE SPECIFIED - INCHES	2-09-09	1:1	TJK	TJK
7) DIMENSIONS UNLESS OTHERWISE SPECIFIED - MILLIMETERS	2-09-09	1:1	TJK	TJK
8) DIMENSIONS UNLESS OTHERWISE SPECIFIED - INCHES	2-09-09	1:1	TJK	TJK
9) DIMENSIONS UNLESS OTHERWISE SPECIFIED - MILLIMETERS	2-09-09	1:1	TJK	TJK
10) DIMENSIONS UNLESS OTHERWISE SPECIFIED - INCHES	2-09-09	1:1	TJK	TJK
11) DIMENSIONS UNLESS OTHERWISE SPECIFIED - MILLIMETERS	2-09-09	1:1	TJK	TJK
12) DIMENSIONS UNLESS OTHERWISE SPECIFIED - INCHES	2-09-09	1:1	TJK	TJK
13) DIMENSIONS UNLESS OTHERWISE SPECIFIED - MILLIMETERS	2-09-09	1:1	TJK	TJK
14) DIMENSIONS UNLESS OTHERWISE SPECIFIED - INCHES	2-09-09	1:1	TJK	TJK
15) DIMENSIONS UNLESS OTHERWISE SPECIFIED - MILLIMETERS	2-09-09	1:1	TJK	TJK
16) DIMENSIONS UNLESS OTHERWISE SPECIFIED - INCHES	2-09-09	1:1	TJK	TJK
17) DIMENSIONS UNLESS OTHERWISE SPECIFIED - MILLIMETERS	2-09-09	1:1	TJK	TJK
18) DIMENSIONS UNLESS OTHERWISE SPECIFIED - INCHES	2-09-09	1:1	TJK	TJK
19) DIMENSIONS UNLESS OTHERWISE SPECIFIED - MILLIMETERS	2-09-09	1:1	TJK	TJK
20) DIMENSIONS UNLESS OTHERWISE SPECIFIED - INCHES	2-09-09	1:1	TJK	TJK
21) DIMENSIONS UNLESS OTHERWISE SPECIFIED - MILLIMETERS	2-09-09	1:1	TJK	TJK
22) DIMENSIONS UNLESS OTHERWISE SPECIFIED - INCHES	2-09-09	1:1	TJK	TJK
23) DIMENSIONS UNLESS OTHERWISE SPECIFIED - MILLIMETERS	2-09-09	1:1	TJK	TJK
24) DIMENSIONS UNLESS OTHERWISE SPECIFIED - INCHES	2-09-09	1:1	TJK	TJK
25) DIMENSIONS UNLESS OTHERWISE SPECIFIED -				



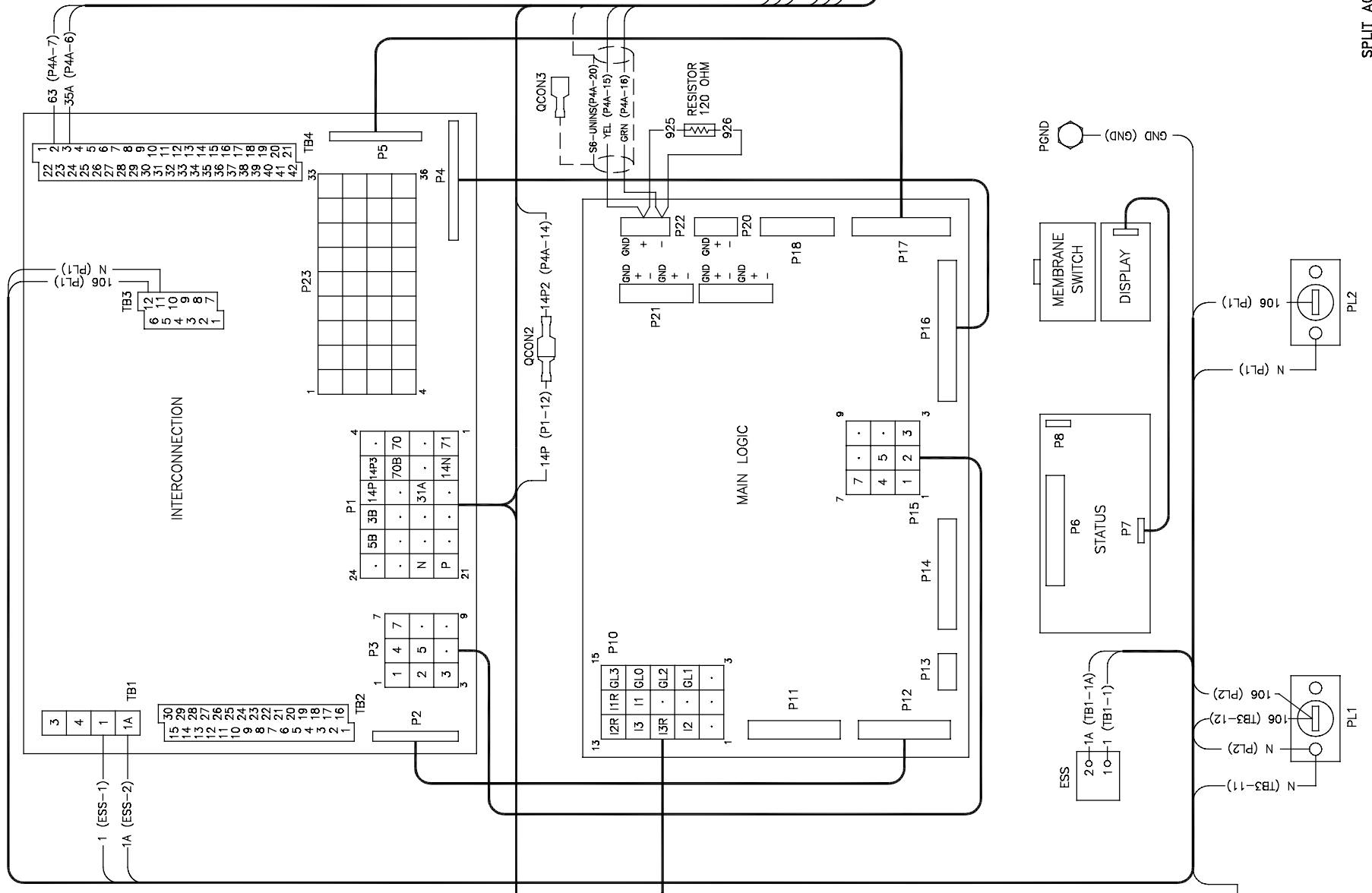
REV	DATE	REVISION	BY
-	6-18-09	NEW DRAWING [87726]	DFS
A	7-27-09	SEE SHEET 3 [88161]	DFS
B	10-9-09	SEE SHEETS 2 & 3 [88626]	DFS
C	1-5-10	SEE SHEET 3 [89007]	DFS

LEGEND

- CLS - COOLANT LEVEL SENDER
- CT(#)- CURRENT TRANSFORMER
- CWCS - CITY WATER COOLING SOLENOID
- ECM - ENGINE BLOCK GROUND
- ECM - ELECTRONIC CONTROL MODULE
- ESS - EMERGENCY STOP SWITCH
- FV(#)- FUEL VALVE
- GND - CONTROLLER BOX GROUND
- J(#)- CONNECTOR
- LCT - LOW COOLANT TEMPERATURE SWITCH
- LFP(#)- LOW FUEL PRESSURE SWITCH
- LFPS - SHUTDOWN SWITCH
- P(#)- CONNECTOR
- PGND - CONTROLLER PANEL GROUND
- PL(#)- PANEL LAMP
- QCON(#)- QUICK CONNECT
- SLB - STATIONARY LED BOARD
- SM - STARTER MOTOR
- SS - STARTER SOLENOID
- STAT - STATOR
- TB1 - INTERCONNECTION BOARD
- TB2 - TERMINAL BLOCK
- TB3 - A/D TERMINAL BLOCK
- TB4 - OUTPUT TERMINAL BLOCK
- TB4 - DIGITAL INPUT TERMINAL BLOCK
- TB5 - CONTROLLER A.C. FUSE BLOCK
- TB10 - ACCESSORY TERMINAL BLOCK
- TB12 - JUNCTION BOX TERMINAL BLOCK

P1 CONNECTIONS

- | | | |
|--------|------|--------------|
| PIN #1 | 71 | (P4A-3) |
| 2 | N/C | |
| 3 | 70 | (TB10-70) |
| 4 | N/C | |
| 5 | 14N | (W2) |
| 6 | N/C | |
| 7 | 70B | (P4A-2) |
| 8 | 14P3 | (W1) |
| 9 | N/C | |
| 10 | 31A | (P4A-5) |
| 11 | N/C | |
| 12 | 14P | (QCON2) |
| 13 | N/C | |
| 14 | N/C | |
| 15 | N/C | |
| 16 | 3B | (P6-2) [FRI] |
| 17 | N/C | |
| 18 | N/C | |
| 19 | N/C | |
| 20 | 5B | (P6-1) [FRI] |
| 21 | P | (W1) |
| 22 | N | (W2) |
| 23 | N/C | |
| 24 | N/C | |

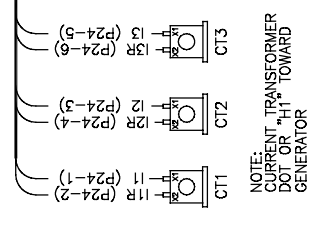


CONTROLLER BOX

TO
SLB (P6) [FRI]
SEE DWG. GM35943

TO
STAT [FRI]
SEE DWG. GM35943

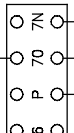
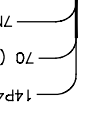
JUNCTION BOX



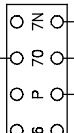
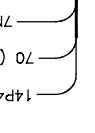
NOTE:
CURRENT TRANSFORMER
DOT OR "H" TOWARD
GENERATOR



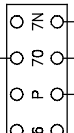
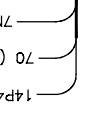
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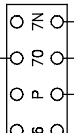
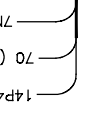
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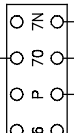
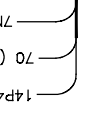
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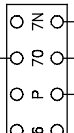
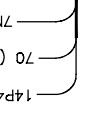
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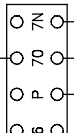
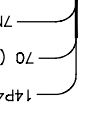
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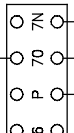
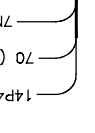
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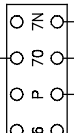
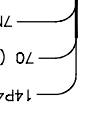
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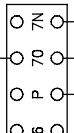
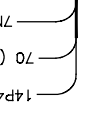
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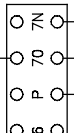
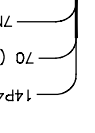
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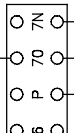
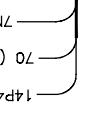
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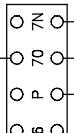
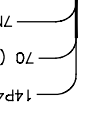
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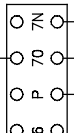
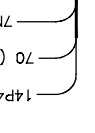
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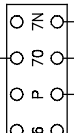
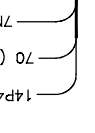
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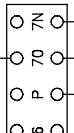
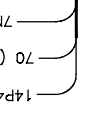
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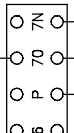
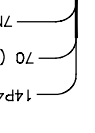
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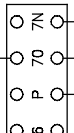
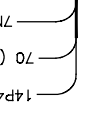
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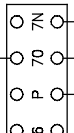
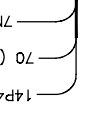
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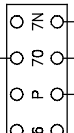
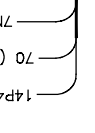
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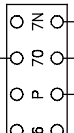
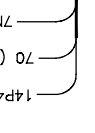
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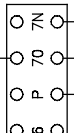
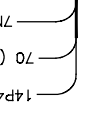
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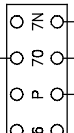
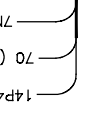
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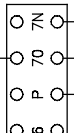
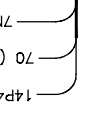
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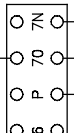
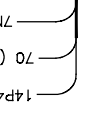
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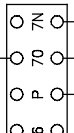
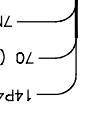
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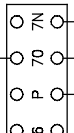
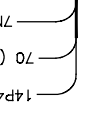
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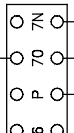
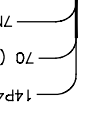
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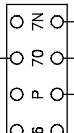
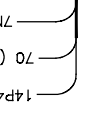
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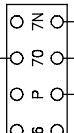
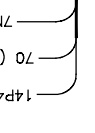
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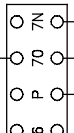
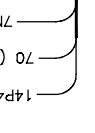
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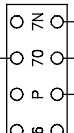
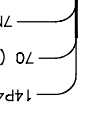
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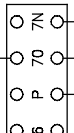
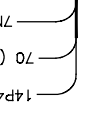
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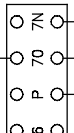
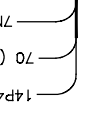
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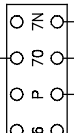
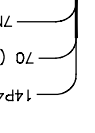
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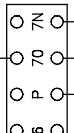
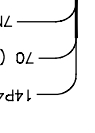
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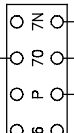
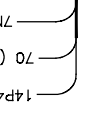
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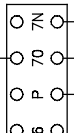
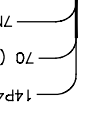
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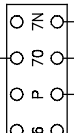
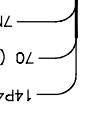
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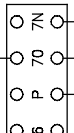
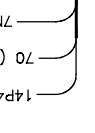
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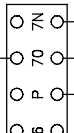
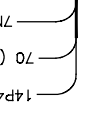
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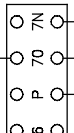
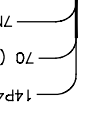
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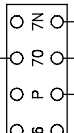
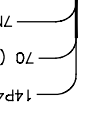
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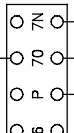
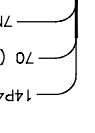
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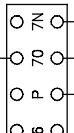
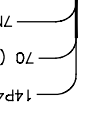
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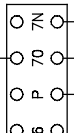
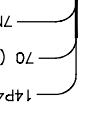
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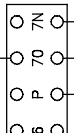
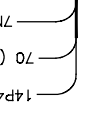
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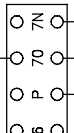
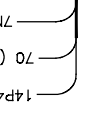
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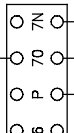
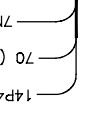
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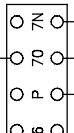
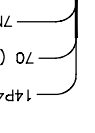
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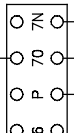
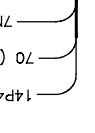
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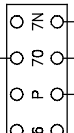
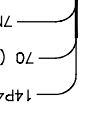
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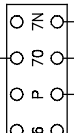
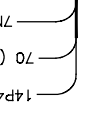
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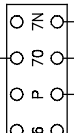
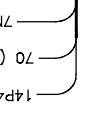
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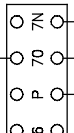
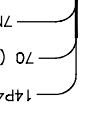
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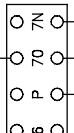
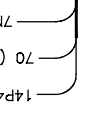
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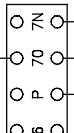
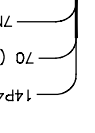
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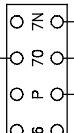
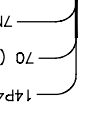
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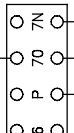
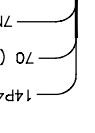
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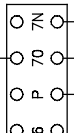
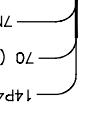
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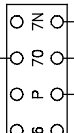
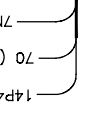
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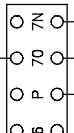
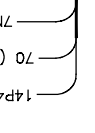
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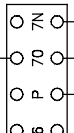
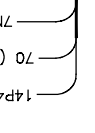
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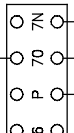
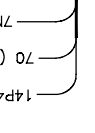
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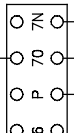
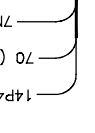
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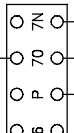
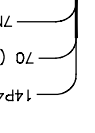
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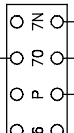
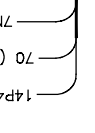
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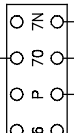
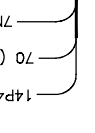
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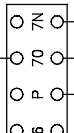
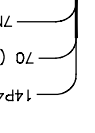
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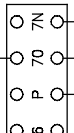
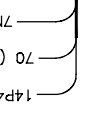
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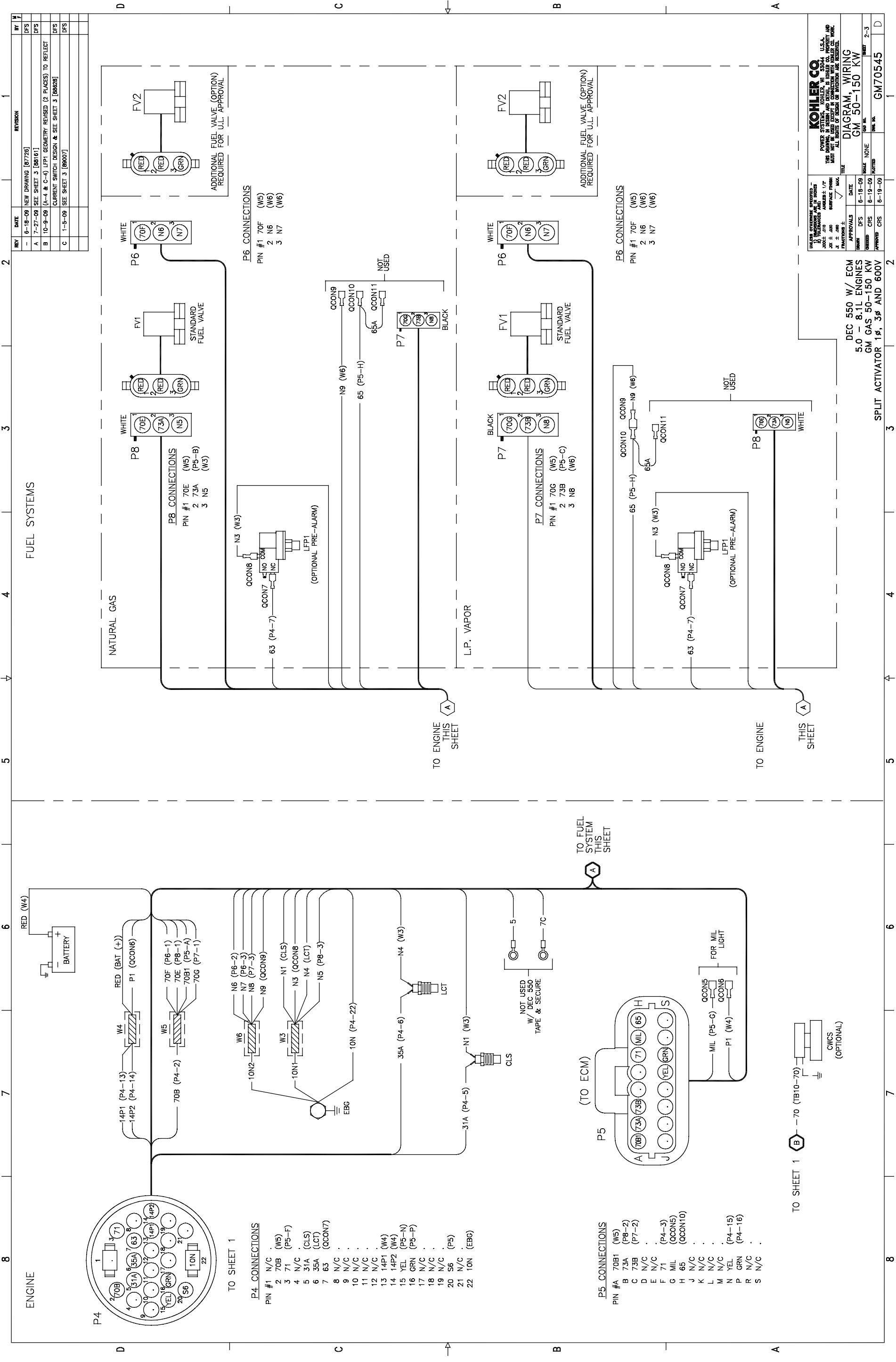
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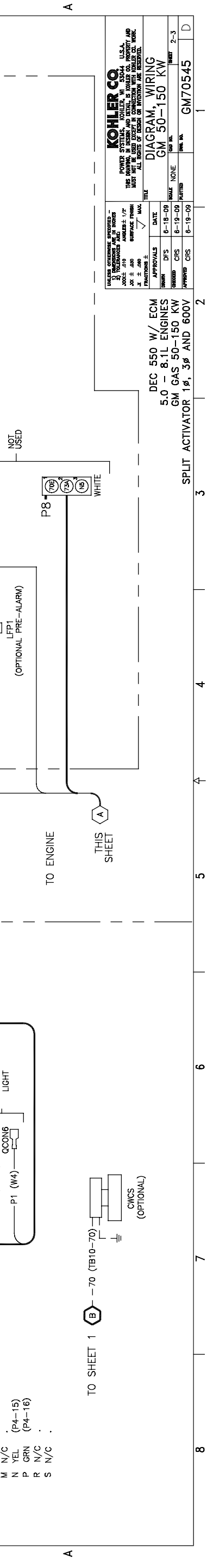
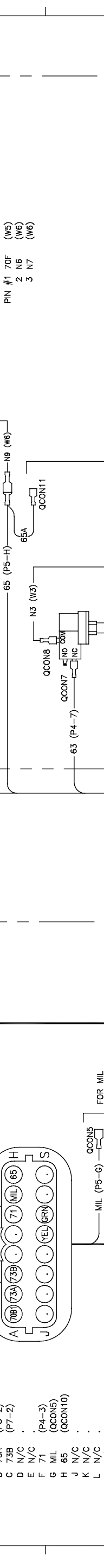
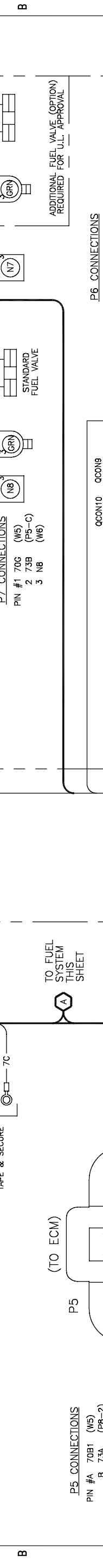
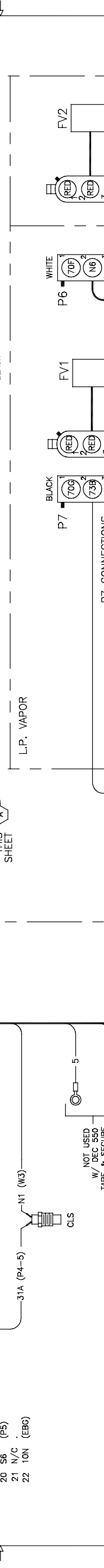
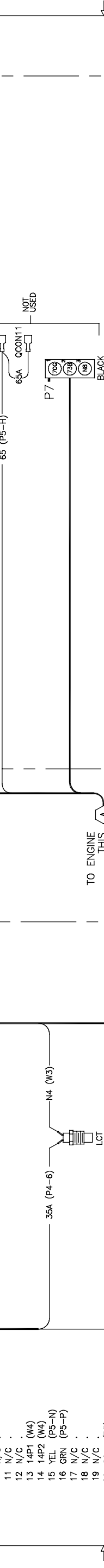
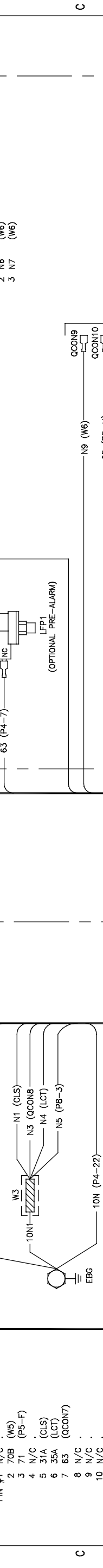
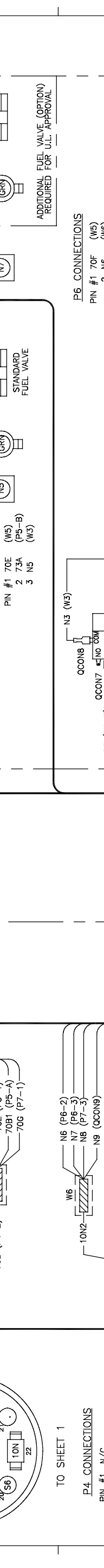
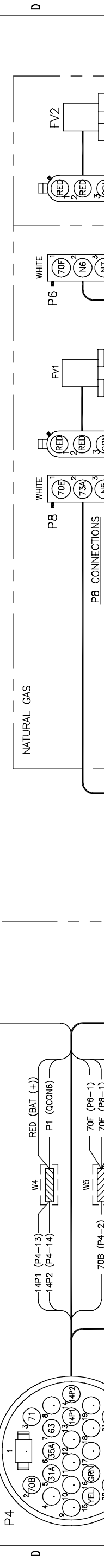
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REV	DATE	REVISION	BY
-	6-18-08	NEW DRAWING [67726]	DFS
A	7-27-08	SEE SHEET 3 [86161]	DFS
B	10-9-09	(A-4 & C-4) LFP1 GEOMETRY REVISED (2 PLACES) TO REFLECT CURRENT SWITCH DESIGN & SEE SHEET 3 [86828]	DFS
C	1-5-09	SEE SHEET 3 [86907]	DFS

REV	DATE	REVISION	BY
-	6-18-08	NEW DRAWING [67726]	DFS
A	7-27-08	SEE SHEET 3 [86161]	DFS
B	10-9-09	(A-4 & C-4) LFP1 GEOMETRY REVISED (2 PLACES) TO REFLECT CURRENT SWITCH DESIGN & SEE SHEET 3 [86828]	DFS
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REV	DATE	REVISION	BY
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C	1-5-09	SEE SHEET 3 [86907]	DFS

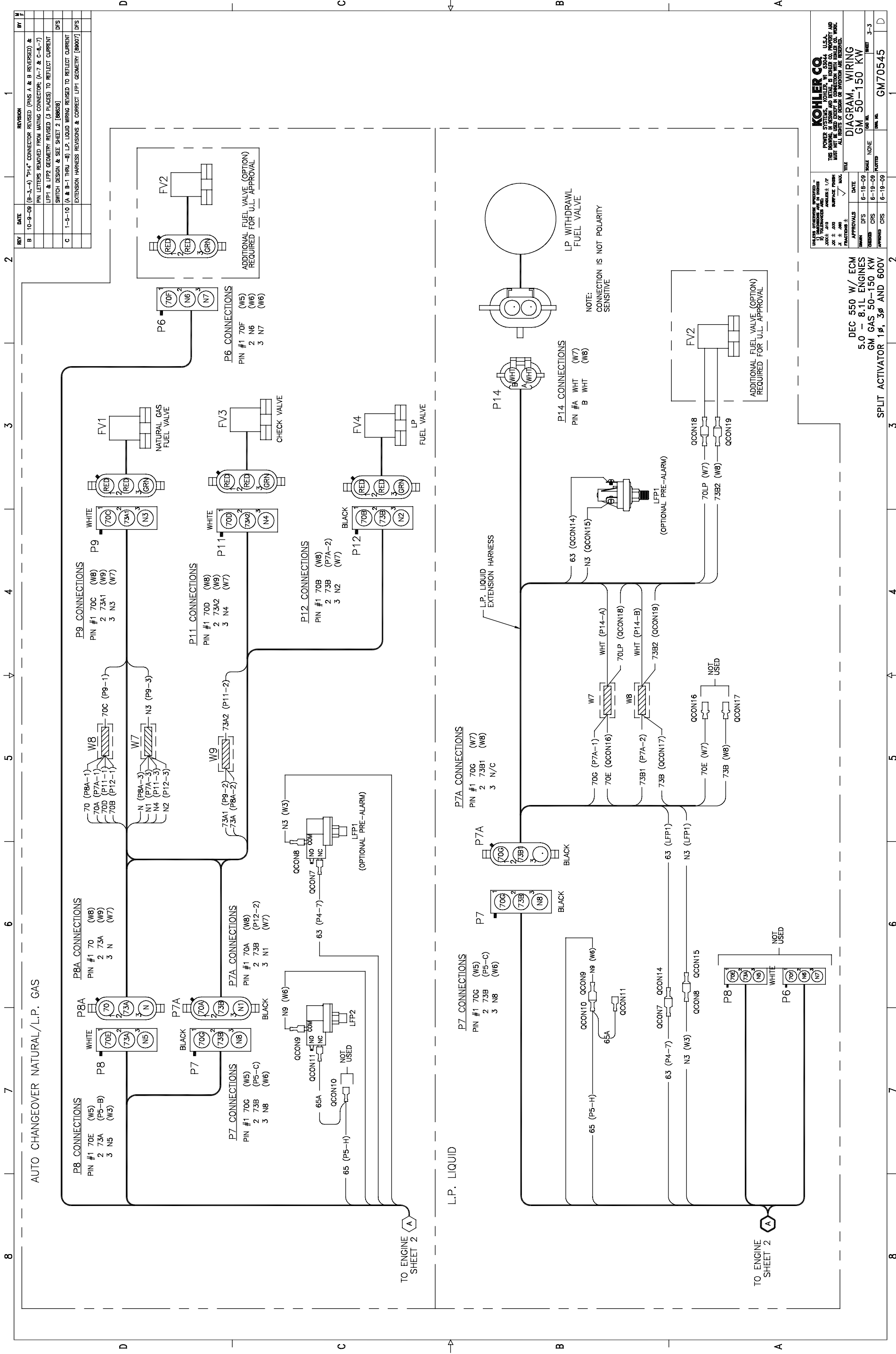


REV	DATE	REVISION	BY
-	6-18-08	NEW DRAWING [67726]	DFS
A	7-27-08	SEE SHEET 3 [86161]	DFS
B	10-9-09	(A-4 & C-4) LFP1 GEOMETRY REVISED (2 PLACES) TO REFLECT CURRENT SWITCH DESIGN & SEE SHEET 3 [86828]	DFS
C	1-5-09	SEE SHEET 3 [86907]	DFS

REV	DATE	REVISION	BY
-	6-18-08	NEW DRAWING [67726]	DFS
A	7-27-08	SEE SHEET 3 [86161]	DFS
B	10-9-09	(A-4 & C-4) LFP1 GEOMETRY REVISED (2 PLACES) TO REFLECT CURRENT SWITCH DESIGN & SEE SHEET 3 [86828]	DFS
C	1-5-09	SEE SHEET 3 [86907]	DFS

REV	DATE	REVISION	BY
-	6-18-08	NEW DRAWING [67726]	DFS
A	7-27-08	SEE SHEET 3 [86161]	DFS
B	10-9-09	(A-4 & C-4) LFP1 GEOMETRY REVISED (2 PLACES) TO REFLECT CURRENT SWITCH DESIGN & SEE SHEET 3 [86828]	DFS
C	1-5-09	SEE SHEET 3 [86907]	DFS

TO ENGINE THIS SHEET



REV	DATE	REVISION	BY
B	10-9-09	(6-5-9) "P14" CONNECTOR REVISED (PINS A & B REVERSED) & PIN LETTERS REMOVED FROM MATING CONNECTOR (A-7 & C-6-7)	
		LFP1 & LFP2 GEOMETRY REVISED (3 PLACES) TO REFLECT CURRENT SWITCH DESIGN & SEE SHEET 2 [88628]	
C	1-5-10	(A & B-1 THRU -8) L.P. LIQUID WIRING REVISED TO REFLECT CURRENT EXTENSION HARNESS REVISIONS & CORRECT LFP1 GEOMETRY [89007]	DPS

DATE	BY	NO.	REV.
6-18-09	DPS	6-18-09	3-3
6-19-09	CRS	6-19-09	
6-19-09	CRS	6-19-09	

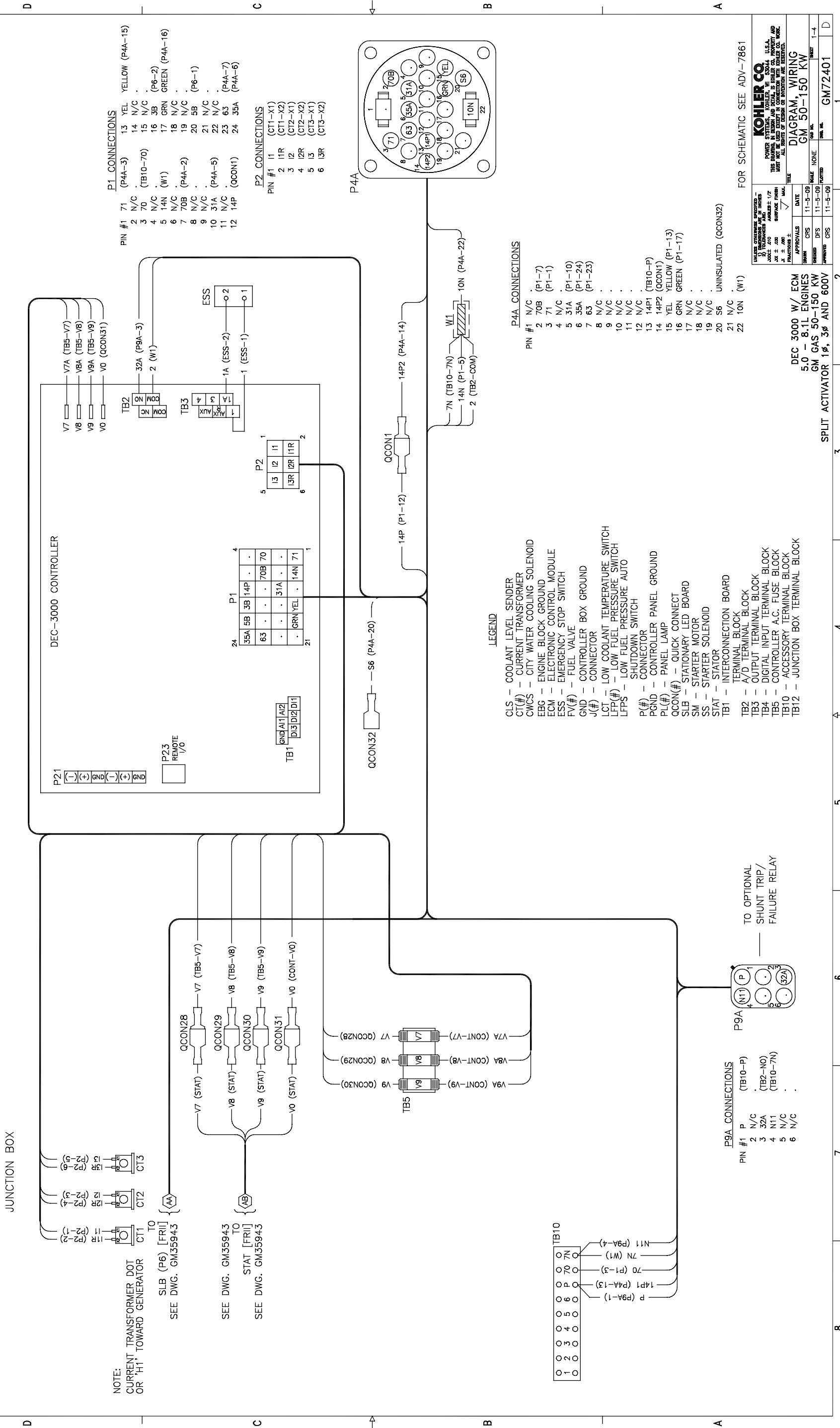
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DIAGRAM, WIRING
GM 50-150 KW

DEC 550 W/ ECM
5.0 - 8.1L ENGINES
GM GAS 50-150 KW
SPLIT ACTIVATOR 1ϕ, 3ϕ AND 600V

GM70545

REV	DATE	REVISION	BY
-	11-5-00	NEW DRAWING [88585]	
A	1-21-10	(A-1) SHEET 1-4 WAS 1-3 & SEE SHEETS 2, 3 & 4 [88617-1] DFS	
B	2-18-10	(A-6, B & C-2-3) LEAD 2 BETWEEN W1 & TB2-COM WAS BETWEEN P9A-6 & TB2-COM & SEE SHEET 3 [89178-4]	



P1 CONNECTIONS

PIN #1	71	(P4A-3)	13	YEL	YELLOW (P4A-15)	
	2	N/C	14	N/C		
	3	70	(TB10-70)	15	N/C	
	4	N/C	16	3B	(P6-2)	
	5	14N	(W1)	17	GRN	GREEN (P4A-16)
	6	N/C	18	N/C		
	7	70B	(P4A-2)	19	N/C	
	8	N/C	20	5B	(P6-1)	
	9	N/C	21	N/C		
	10	31A	(P4A-5)	22	N/C	
	11	N/C	23	63	(P4A-7)	
	12	14P	(OCON1)	24	35A	(P4A-6)

P2 CONNECTIONS

PIN #1	11	(CT1-X1)	
	2	11R	(CT1-X2)
	3	12	(CT2-X1)
	4	12R	(CT2-X2)
	5	13	(CT3-X1)
	6	13R	(CT3-X2)

P4A CONNECTIONS

PIN #1	N/C	
2	70B	(P1-7)
3	71	(P1-1)
4	N/C	
5	31A	(P1-10)
6	35A	(P1-24)
7	63	(P1-23)
8	N/C	
9	N/C	
10	N/C	
11	N/C	
12	N/C	
13	14P1	(TB10-F)
14	14P2	(OCON1)
15	YEL	YELLOW (P1-13)
16	GRN	GREEN (P1-17)
17	N/C	
18	N/C	
19	N/C	
20	S6	UNINSULATED (OCON32)
21	N/C	
22	10N	(W1)

- LEGEND**
- CLS - COOLANT LEVEL SENDER
 - CT(#)- CURRENT TRANSFORMER
 - CWCS - CITY WATER COOLING SOLENOID
 - EBG - ENGINE BLOCK GROUND
 - ECM - ELECTRONIC CONTROL MODULE
 - ESS - EMERGENCY STOP SWITCH
 - FV(#)- FUEL VALVE
 - GND - CONTROLLER BOX GROUND
 - J(#)- CONNECTOR
 - LCT - LOW COOLANT TEMPERATURE SWITCH
 - LFP(#)- LOW FUEL PRESSURE SWITCH
 - LFPS - LOW FUEL PRESSURE AUTO SHUTDOWN SWITCH
 - P(#)- CONNECTOR
 - P-GND - CONTROLLER PANEL GROUND
 - PL(#)- PANEL LAMP
 - OCON(#)- QUICK CONNECT
 - SLB - STATIONARY LED BOARD
 - SM - STARTER MOTOR
 - SS - STARTER SOLENOID
 - STAT - STARTER
 - TB1 - INTERCONNECTION BOARD
 - TB2 - TERMINAL BLOCK
 - TB3 - A/D TERMINAL BLOCK
 - TB4 - OUTPUT TERMINAL BLOCK
 - TB5 - DIGITAL INPUT TERMINAL BLOCK
 - TB5 - CONTROLLER A.C. FUSE BLOCK
 - TB10 - ACCESSORY TERMINAL BLOCK
 - TB12 - JUNCTION BOX TERMINAL BLOCK

P9A CONNECTIONS

PIN #1	P	(TB10-P)
2	N/C	(TB2-N0)
3	32A	(TB10-7N)
4	N11	
5	N/C	
6	N/C	

FOR SCHEMATIC SEE ADV-7861

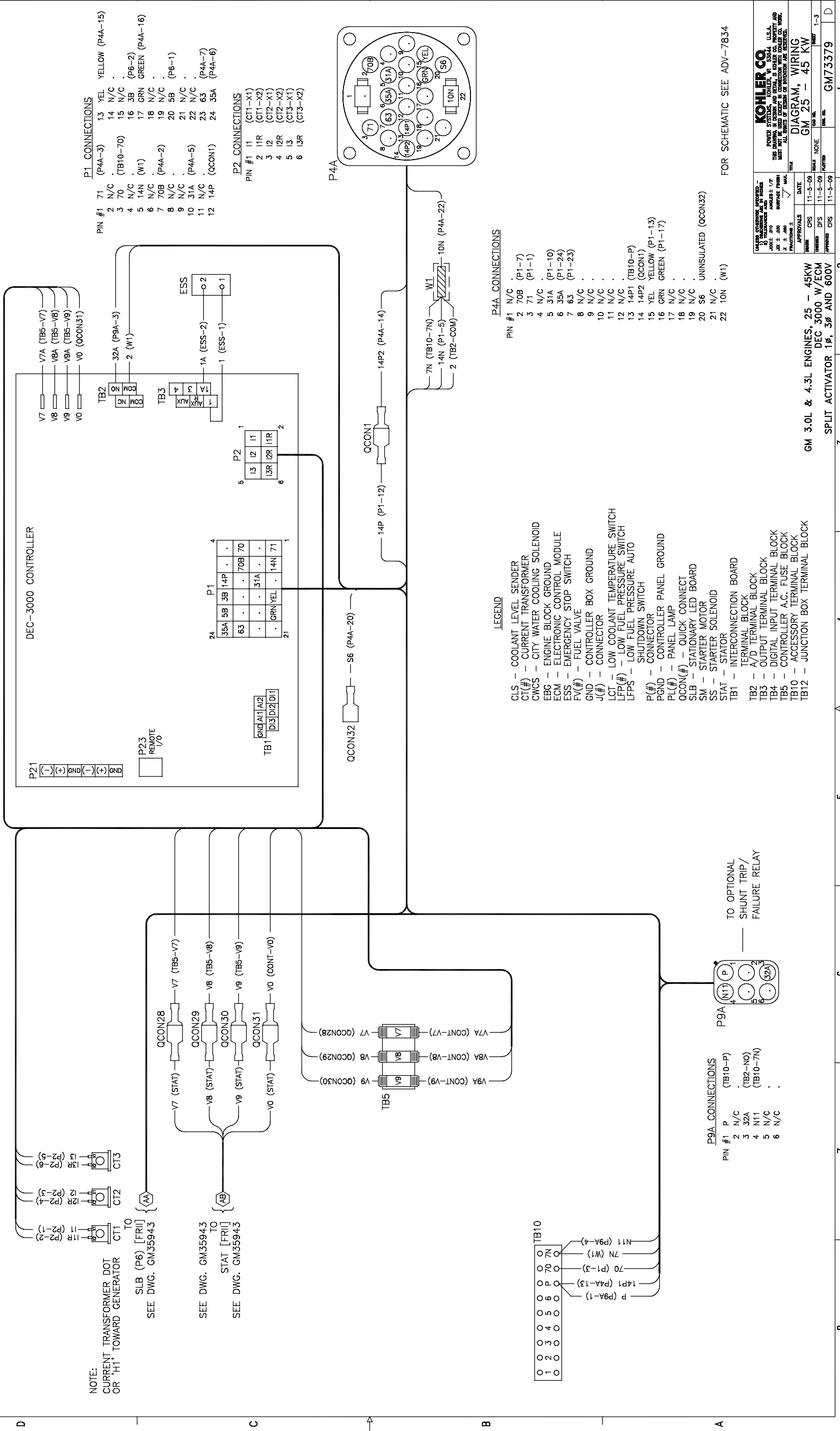
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DIAGRAM, WIRING
GM 50-150 KW

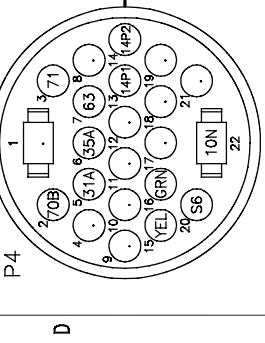
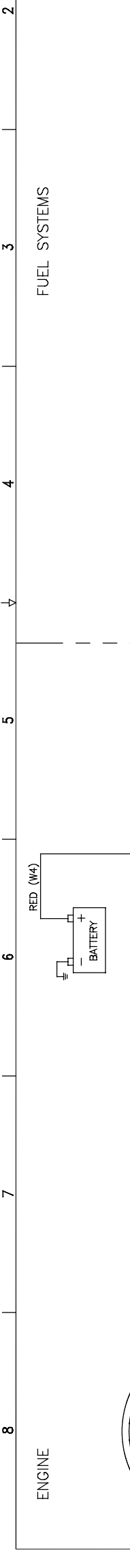
DATE	11-5-00	DRAWN	CRS
REVISION		CHECKED	DFS
APPROVED		DESIGNED	CRS

DEC 3000 W/ ECM
5.0 - 8.1L ENGINES
GM GAS 50-150 KW
SPLIT ACTIVATOR 1φ, 3φ AND 600V

REV	DATE	REVISION	BY
-	11-5-09	NEW DRAWING [88985-3]	CRS
A	2-18-10	(1-5, 8 & C-2-3) LEAD 2 BETWEEN W1 & TB2-COM WAS BETWEEN P9A-6 & TB2-COM [88178-4]	DPS



REV	DATE	REVISION	BY
-	11-5-09	NEW DRAWING [88595-3]	CRS
A	2-18-10	SEE SHEET 1 [89178-4]	DPS

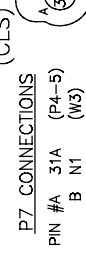
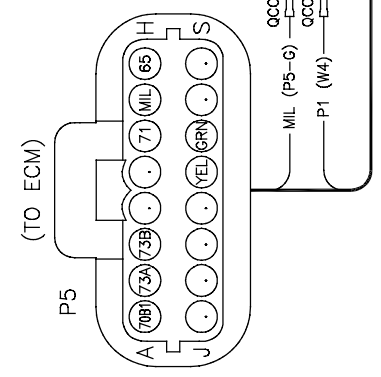


P4 CONNECTIONS

- PIN #1 N/C
- 2 70B (W6)
- 3 71 (P5-F)
- 4 N/C
- 5 31A (P7-A)
- 6 35A (W6)
- 7 63 (LFP1-NC)
- 8 N/C
- 9 N/C
- 10 N/C
- 11 N/C
- 12 N/C
- 13 14P1 (W4)
- 14 14P2 (W4)
- 15 YEL (P5-N)
- 16 GRN (P5-P)
- 17 N/C
- 18 N/C
- 19 N/C
- 20 56 (P5)
- 21 N/C
- 22 10N (EBG)

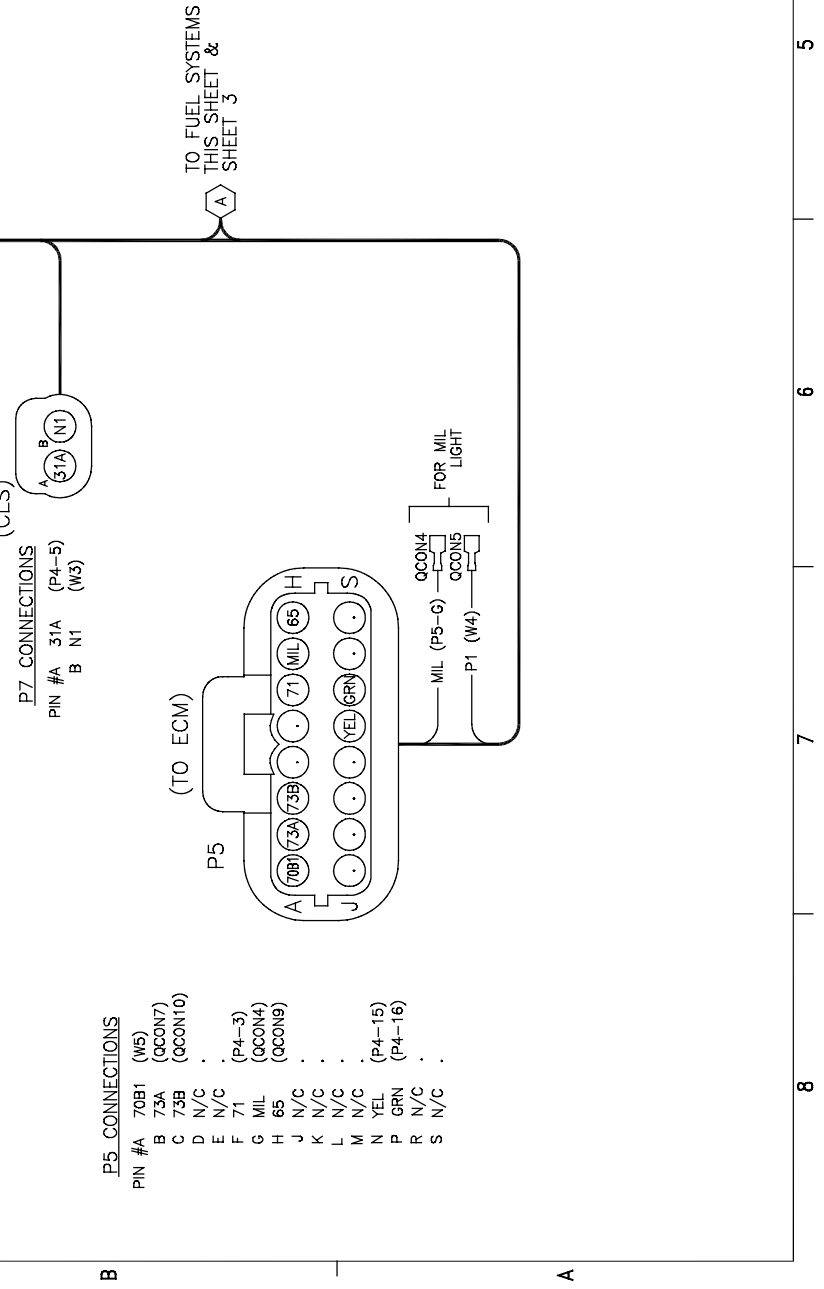
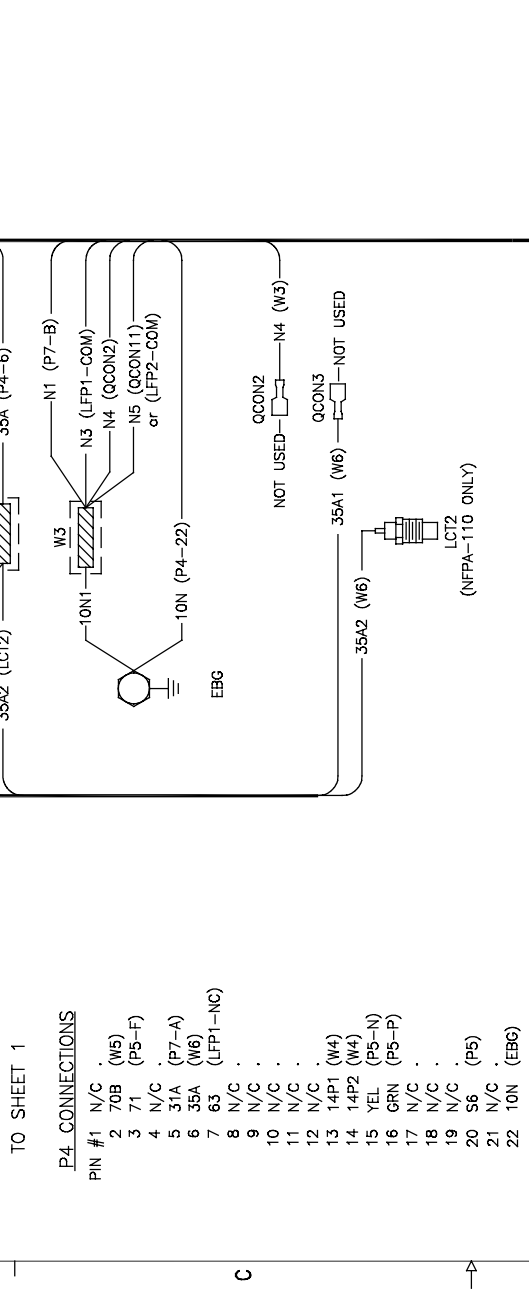
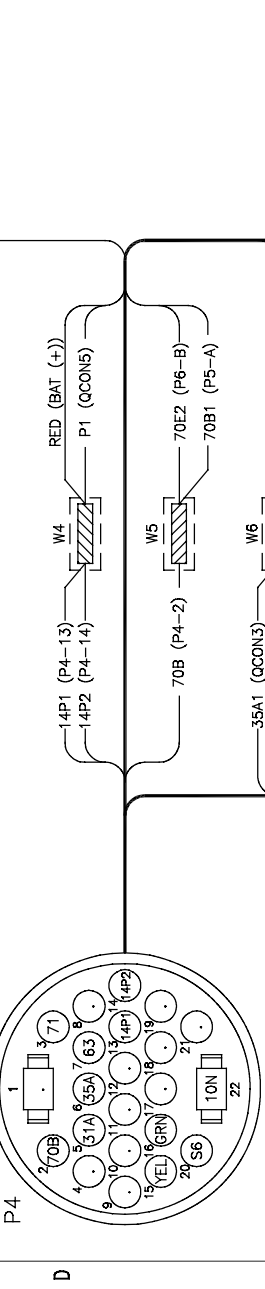
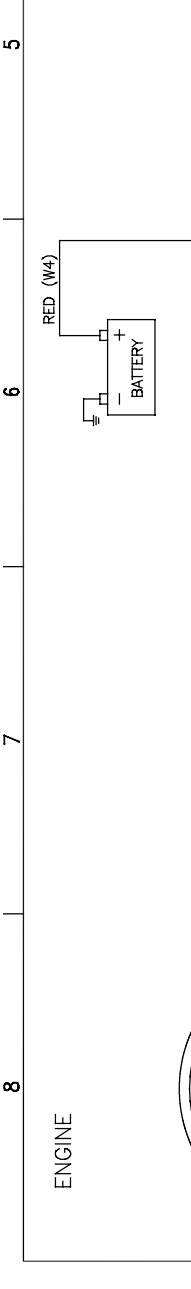
P5 CONNECTIONS

- PIN #A 70B1 (W5)
- B 73A (OCON7)
- C 73B (OCON10)
- D N/C
- E N/C
- F 71 (P4-3)
- G MIL (OCON4)
- H 65 (OCON9)
- J N/C
- K N/C
- L N/C
- M N/C
- N YEL (P4-15)
- P GRN (P4-16)
- R N/C
- S N/C



- P7 CONNECTIONS**
 PIN #A 31A (P4-5)
 B N1 (W3)
 C 31A (N1)

TO FUEL SYSTEMS & THIS SHEET 3



FUEL SYSTEMS



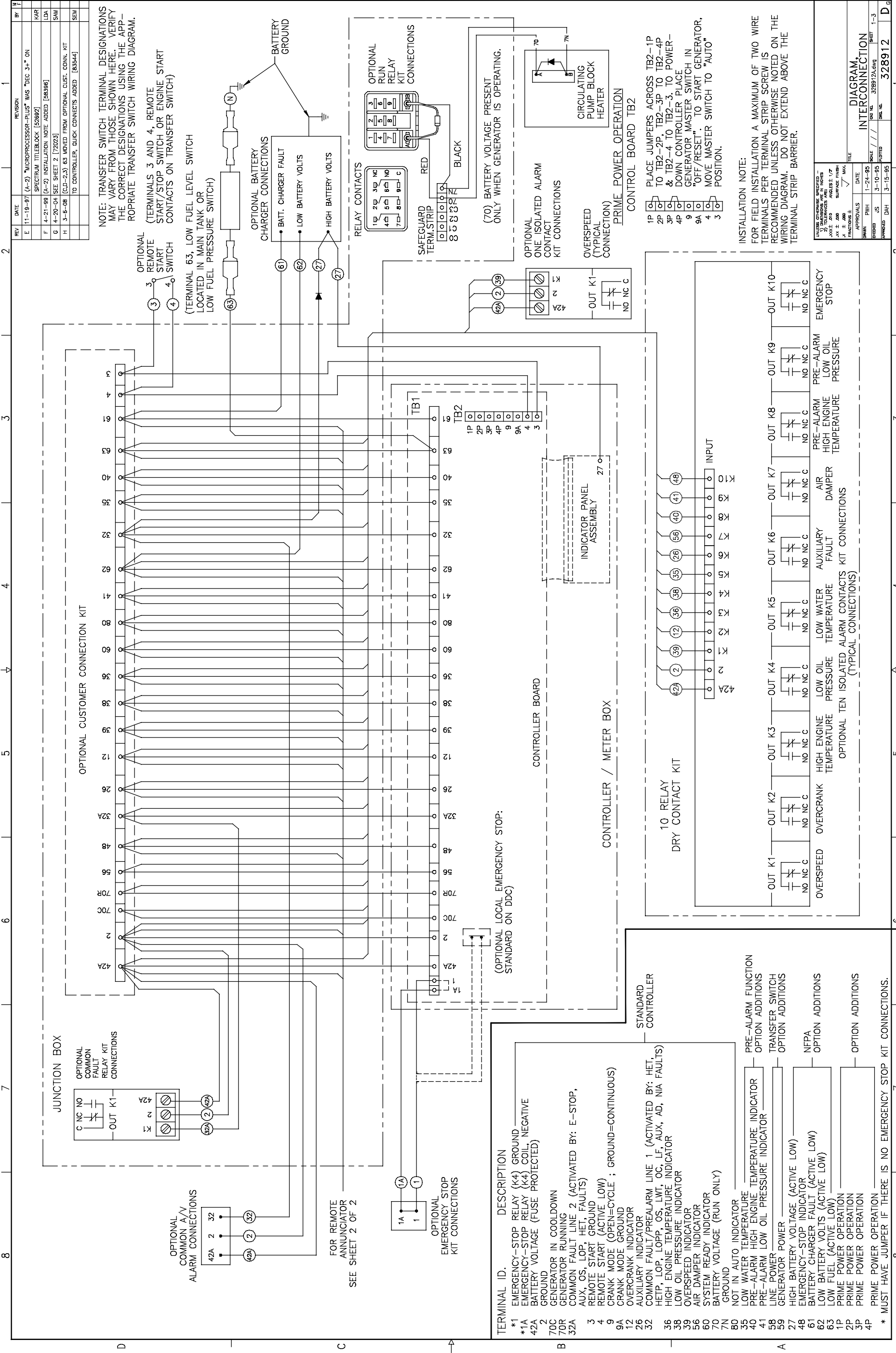
APPROVALS	DATE	SCALE	NO.	REV.
DESIGNED	11-5-09	1/2"	1	1
DRAWN	11-5-09	1/2"	1	1
CHECKED	11-5-09	1/2"	1	1
APPROVED	11-5-09	1/2"	1	1

UNLESS OTHERWISE SPECIFIED -
 1. DIMENSIONS ARE IN INCHES
 2. DIMENSIONS ARE IN MILLIMETERS
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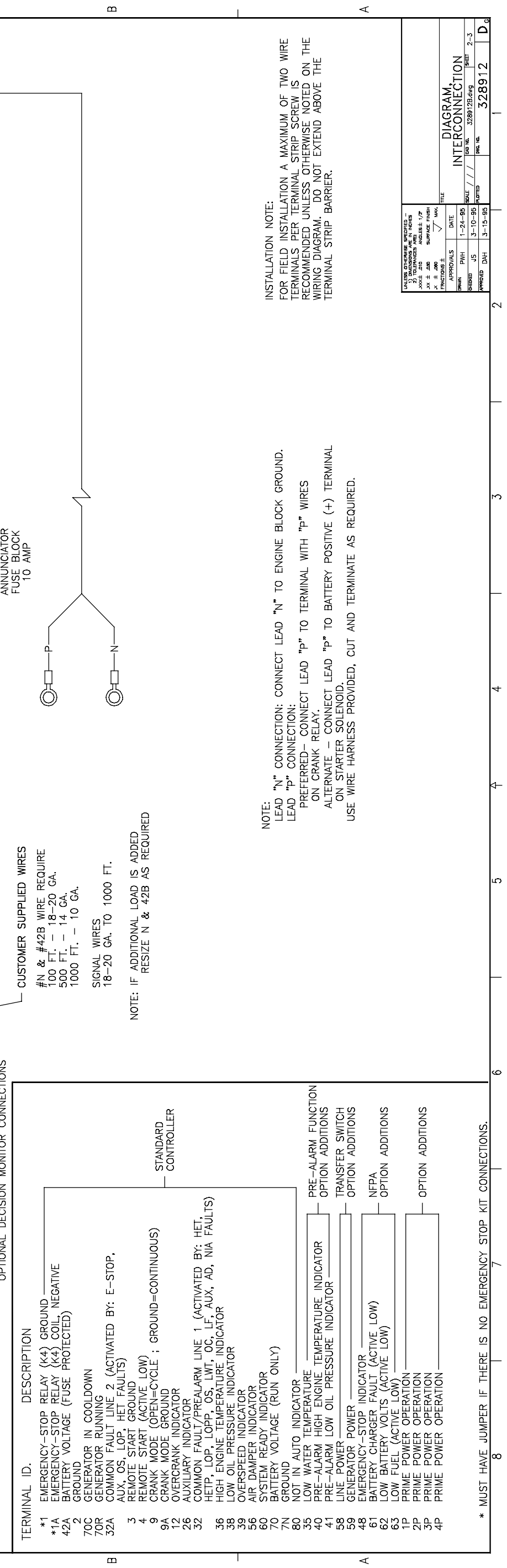
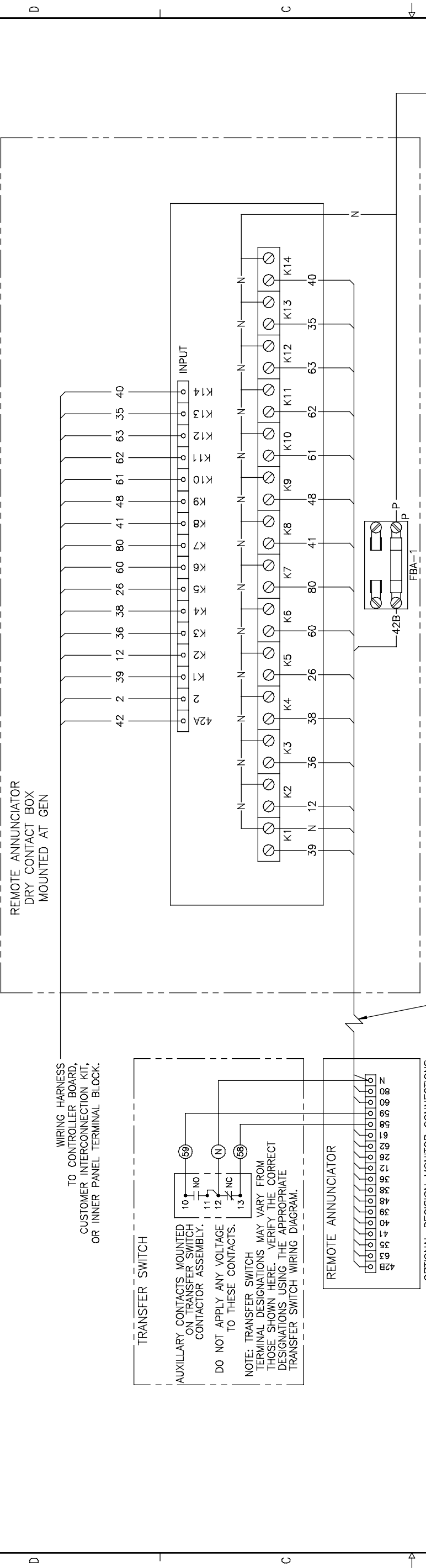
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DIAGRAM, WIRING
GM 25 - 45 KW

GM 3.0L & 4.3L ENGINES, 25 - 45KW
DEC 3000 W/ECM
SPLIT ACTIVATOR 1φ, 3φ AND 600V

GM73379



REV	DATE	REVISION	BY
D	9-3-98	(A-2) 20-2000 KW WAS 20-1600 KW (D-6) CUSTOMER INTERCONNECTION KIT, OR INNER PANEL TERMINAL BLOCK. ADDED [56875]	
F	4-21-98	(A-2) INSTALLATION NOTE ADDED [56396]	LDS
G	4-20-04	(B-4) LEAD CONNECTION NOTE UPDATED [72023]	SAM
H	3-6-08	SEE SHEET 1 [83544]	SEM



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

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	SCALE	SHEET
DESIGNED	1-24-95	1-24-95	2-3
CHECKED	3-10-95	3-10-95	2-3
APPROVED	3-15-95	3-15-95	2-3

UNLESS OTHERWISE SPECIFIED -	FILE
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2) TOLERANCES UNLESS NOTED	328912B.dwg
3) DIMENSIONS IN MILLIMETERS	328912B.dwg
4) HOLE DIA SURFACE FINISH	328912B.dwg
5) DIMENSIONS UNLESS NOTED	328912B.dwg
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TP-6712 4/10a

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Kohler Power Systems
Asia Pacific Headquarters
7 Jurong Pier Road
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