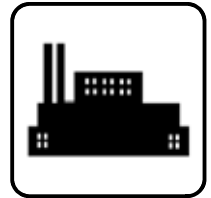


Wiring Diagrams

Industrial Generator Sets



Models:

20RZ

25/30/50/150RZGB

30-125RZG

35-125RES

Controllers:

Decision-Maker®550

Decision-Maker®340

Decision-Maker®3+

Decision-Maker®1



KOHLER®
POWER SYSTEMS

TP-6274 1/12g

Product Identification Information

Product identification numbers determine service parts. Record the product identification numbers in the spaces below immediately after unpacking the products so that the numbers are readily available for future reference. Record field-installed kit numbers after installing the kits.

Generator Set Identification Numbers

Record the product identification numbers from the generator set nameplate(s).

Model Designation _____

Specification Number _____

Serial Number _____

Accessory Number	Accessory Description
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Engine Identification

Record the product identification information from the engine nameplate.

Manufacturer _____

Model Designation _____

Serial Number _____

Controller Identification

Record the controller description from the generator set operation manual, spec sheet, or sales invoice.

Controller Description _____

This manual provides wiring diagrams for the 20RZ, 25/30/50/150RZGB, 30-125RZG, and 35-125RES generator sets equipped with one of the following controllers:

- Decision-Maker®550
- Decision-Maker®340
- Decision-Maker®3+
- Decision-Maker®1

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
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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
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Phone: (86) 10 6518 7950

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East China Regional Office, Shanghai

Phone: (86) 21 6288 0500

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India, Bangladesh, Sri Lanka

India Regional Office

Bangalore, India

Phone: (91) 80 3366208

(91) 80 3366231

Fax: (91) 80 3315972

Japan, Korea

North Asia Regional Office

Tokyo, Japan

Phone: (813) 3440-4515

Fax: (813) 3440-2727

Latin America

Latin America Regional Office

Lakeland, Florida, USA

Phone: (863) 619-7568

Fax: (863) 701-7131

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. Refer to the generator set nameplate for the alternator type. A wound field alternator is identified with a W as the last digit. Example: Gen. Model 4S11W.

Wiring Diagram Cross-Reference

Generator Set Model No.	Hz	Generator Set Spec No.	Wiring Diagram Version No.
35RES	50/60	GM39370-GA11, 15, 16	2-2
		GM60227-GA3, 4, 8, 11	
45RES	50/60	GM39370-GA12, 17, 18	2-2
		GM60227-GA5, 6, 9, 12	
50RES	50/60	GM39374-GA1, 5, 7	2-2
		GM60230-GA1, 2, 5, 9	
60RES	50/60	GM39374-GA2, 6, 8	2-2
		GM60230-GA3, 4, 6, 10	
80RES	50/60	GM34436-GA1, 2, 3, 4, 13	4-2
100RES	50/60	GM34436-GA5, 6, 7, 8, 9, 10, 11, 12, 14	4-2
125RES	50/60	GM34464-GA1, 2, 3, 4, 5, 6, 7, 8, 9	5-2

Generator Set Model No.	Hz	Generator Set Spec No.	Wiring Diagram Version No.
20RZ	50/60	GM28726-GA1	1-1
25RZGB	60	GM22316-GA5, 7, 9	3-1
30RZG	50/60	GM22383-GA1, 7, 10	2-1
		GM39370-GA1, 7, 10, 13, 14	2-2
		GM60227-GA1, 2, 7, 10	
30RZGB	60	GM22316-GA1, 4, 6, 8, 10	3-1
35RZG	50/60	GM22383-GA2, 8, 11	2-1
		GM39370-GA2, 8, 11, 15, 16	2-2
		GM60227-GA3, 4, 8, 11	
45RZG	50/60	GM22383-GA3, 9, 12	2-1
		GM39370-GA3, 9, 12, 17, 18	2-2
		GM60227-GA5, 6, 9, 12	
50RZGB	50/60	GM21302-GA1, 5, 7	2-1
		GM39374-GA1, 5, 7	2-2
		GM60230-GA1, 2, 5, 9	
60RZG	50/60	GM21302-GA2, 6, 8	2-1
		GM39374-GA2, 6, 8	2-2
		GM60230-GA3, 4, 6, 10	
80RZG	50/60	GM22407-GA1, 2, 3, 4	4-1
		GM34436-GA1, 2, 3, 4, 13	4-2
100RZG	50/60	GM22407-GA5, 6, 7, 8	4-1
		GM34436-GA5, 6, 7, 8, 9, 10, 11, 12, 14	4-2
125RZG	50/60	GM25339-GA1, 2, 3, 4	5-1
		GM34464-GA1, 2, 3, 4, 5, 6, 7, 8, 9	5-2
150RZGB	50/60	GM49978-GA1, 3, 4	5-2

20RZ Wiring Diagrams Reference

Controller Description	Version 1-1	Page
Decision-Maker® 340 Controller		
Point-to-Point Wiring Diagram		
Sheet 1	347940A-L	92
Sheet 2	347940B-L	93
Sheet 3	347940C-L	94
Sheet 4	347940D-L	95
Schematic Diagram		
Sheet 1	ADV-6130A-L	16
Sheet 2	ADV-6130B-L	17
Accessory Connections		
Accessories	354246A-D	96
Remote Annunciator Kit	354246B-D	97
Decision-Maker® 3+ Controller		
Point-to-Point Wiring Diagram		
Sheet 1	326604A-K	82
Sheet 2	326604B-K	83
Sheet 3	326604C-K	84
Sheet 4	326604D-K	85
Schematic Diagram	ADV-6002-G	14
Accessory Connections		
Accessories	328912A-H	90
Remote Annunciator Kit	328912B-H	91
Decision-Maker® 1 Controller		
Point-to-Point Wiring Diagram		
Sheet 1	326616A-F	86
Sheet 2	326616B-F	87
Sheet 3	326616C-F	88
Sheet 4	326616D-F	89
Schematic Diagram	ADV-6008-H	15
Alternator Reconnections		
Alternator, 4-Lead	ADV-5875A-M	11
Alternator, 12-Lead	ADV-5875B-M	12

30-60RZG, 35-60RES, and 50RZGB Wiring Diagrams Reference

Controller Description	Version 2-1	Page	Version 2-2	Page
Decision-Maker® 550 Controller				
Point-to-Point Wiring Diagram				
Sheet 1	GM21220A-D	53	GM39350A-D	79
Sheet 2	GM21220B-D	54	GM39350B-D	80
Sheet 3	—		GM39350C-D	81
Permanent Magnet Alternator	GM35943-D	71	GM35943-D	71
Wound Field Alternator	GM35944-C	72	GM35944-C	72
Schematic Diagram				
Sheet 1	ADV-6671A-C	22	ADV-7017A-B	45
Sheet 2	ADV-6671B-C	23	ADV-7017B-B	46
Permanent Magnet Alternator	ADV-6957-B	39	ADV-6957-B	39
Wound Field Alternator	ADV-6958-A	40	ADV-6958-A	40
Accessory Connections				
Accessories	GM16088A-H	47	GM16088A-H	47
Remote Annunciator Kit	GM16088B-H	48	GM16088B-H	48
Decision-Maker® 3+ Controller				
Point-to-Point Wiring Diagram				
Sheet 1	GM21218A-D	51	GM39349A-D	76
Sheet 2	GM21218B-D	52	GM39349B-D	77
Sheet 3	—		GM39349C-D	78
Permanent Magnet Alternator	GM35941-G	69	GM35941-G	69
Wound Field Alternator	GM35942-J	70	GM35942-J	70
Schematic Diagram				
Sheet 1	ADV-6670A-C	20	ADV-7016A-B	43
Sheet 2	ADV-6670B-C	21	ADV-7016B-B	44
Permanent Magnet Alternator	ADV-6955-C	37	ADV-6955-C	37
Wound Field Alternator	ADV-6956-E	38	ADV-6956-E	38
Accessory Connections				
Accessories	328912A-H	90	328912A-H	90
Remote Annunciator Kit	328912B-H	91	328912B-H	91
Decision-Maker® 1 Controller				
Point-to-Point Wiring Diagram				
Sheet 1	GM21217A-C	49	GM39348A-D	73
Sheet 2	GM21217B-C	50	GM39348B-D	74
Sheet 3	—		GM39348C-D	75
Permanent Magnet Alternator	GM35941-G	69	GM35941-G	69
Wound Field Alternator	GM35942-J	70	GM35942-J	70
Schematic Diagram				
Sheet 1	ADV-6669A-C	18	ADV-7015A-B	41
Sheet 2	ADV-6669B-C	19	ADV-7015B-B	42
Permanent Magnet Alternator	ADV-6955-C	37	ADV-6955-C	37
Wound Field Alternator	ADV-6956-E	38	ADV-6956-E	38
Alternator Reconnections				
Permanent Magnet and Wound Field Alternators, 4-Lead	ADV-5875A-M	11	ADV-5875A-M	11
Permanent Magnet Alternator, 12-Lead	ADV-5875B-M	12	ADV-5875B-M	12
Wound Field Alternator, 12-Lead	ADV-5875C-M	13	ADV-5875C-M	13

Note: Version 2-2 represents the Woodward L-Series throttle release.

25/30RZGB Wiring Diagrams Reference

Controller Description	Version 3-1	Page
Decision-Maker® 550 Controller		
Point-to-Point Wiring Diagram		
Sheet 1	GM34401A-F	67
Sheet 2	GM34401B-F	68
Permanent Magnet Alternator	GM35943-D	71
Wound Field Alternator	GM35944-C	72
Schematic Diagram		
Sheet 1	ADV-6931A-D	35
Sheet 2	ADV-6931B-D	36
Permanent Magnet Alternator	ADV-6957-B	39
Wound Field Alternator	ADV-6958-A	40
Accessory Connections		
Accessories	GM16088A-H	47
Remote Annunciator Kit	GM16088B-H	48
Decision-Maker® 3+ Controller		
Point-to-Point Wiring Diagram		
Sheet 1	GM25000A-K	57
Sheet 2	GM25000B-K	58
Permanent Magnet Alternator	GM35941-G	69
Wound Field Alternator	GM35942-J	70
Schematic Diagram		
Sheet 1	ADV-6789A-J	26
Sheet 2	ADV-6789B-J	27
Permanent Magnet Alternator	ADV-6955-C	37
Wound Field Alternator	ADV-6956-E	38
Accessory Connections		
Accessories	328912A-H	90
Remote Annunciator Kit	328912B-H	91
Decision-Maker® 1 Controller		
Point-to-Point Wiring Diagram		
Sheet 1	GM26185A-E	63
Sheet 2	GM26185B-E	64
Permanent Magnet Alternator	GM35941-G	69
Wound Field Alternator	GM35942-J	70
Schematic Diagram		
Sheet 1	ADV-6796A-E	33
Sheet 2	ADV-6796B-E	34
Permanent Magnet Alternator	ADV-6955-C	37
Wound Field Alternator	ADV-6956-E	38
Engine Control	GM29995-A	65
Alternator Reconnections		
Permanent Magnet and Wound Field Alternators, 4-Lead	ADV-5875A-M	11
Permanent Magnet Alternator, 12-Lead	ADV-5875B-M	12
Wound Field Alternator, 12-Lead	ADV-5875C-M	13

80/100RES and 80/100RZG Wiring Diagrams Reference

Controller Description	Version 4-1	Page	Version 4-2	Page
Decision-Maker® 550 Controller				
Point-to-Point Wiring Diagram				
Sheet 1	GM25329A-F	59	GM34401A-F	67
Sheet 2	GM25329B-F	60	GM34401B-F	68
Permanent Magnet Alternator	GM35943-D	71	GM35943-D	71
Wound Field Alternator	GM35944-C	72	GM35944-C	72
Schematic Diagram				
Sheet 1	ADV-6790A-F	28	ADV-6931A-D	35
Sheet 2	ADV-6790B-F	29	ADV-6931B-D	36
Sheet 3	ADV-6790C-F	30	—	
Permanent Magnet Alternator	ADV-6957-B	39	ADV-6957-B	39
Wound Field Alternator	ADV-6958-A	40	ADV-6958-A	40
Accessory Connections				
Accessories	GM16088A-H	47	GM16088A-H	47
Remote Annunciator Kit	GM16088B-H	48	GM16088B-H	48
Decision-Maker® 3+ Controller				
Point-to-Point Wiring Diagram				
Sheet 1	GM25000A-J	55	GM25000A-K	57
Sheet 2	GM25000B-J	56	GM25000B-K	58
Permanent Magnet Alternator	GM35941-G	69	GM35941-G	69
Wound Field Alternator	GM35942-J	70	GM35942-J	70
Schematic Diagram				
Sheet 1	ADV-6789A-H	24	ADV-6789A-J	26
Sheet 2	ADV-6789B-H	25	ADV-6789B-J	27
Permanent Magnet Alternator	ADV-6955-C	37	ADV-6955-C	37
Wound Field Alternator	ADV-6956-E	38	ADV-6956-E	38
Accessory Connections				
Accessories	328912A-H	90	328912A-H	90
Remote Annunciator Kit	328912B-H	91	328912B-H	91
Decision-Maker® 1 Controller				
Point-to-Point Wiring Diagram				
Sheet 1	GM26185A-D	61	GM26185A-E	63
Sheet 2	GM26185B-D	62	GM26185B-E	64
Permanent Magnet Alternator	GM35941-G	69	GM35941-G	69
Wound Field Alternator	GM35942-J	70	GM35942-J	70
Schematic Diagram				
Sheet 1	ADV-6796A-D	31	ADV-6796A-E	33
Sheet 2	ADV-6796B-D	32	ADV-6796B-E	34
Permanent Magnet Alternator	ADV-6955-C	37	ADV-6955-C	37
Wound Field Alternator	ADV-6956-E	38	ADV-6956-E	38
Engine Control	GM29996-B	66	GM29996-B	66
Alternator Reconnections				
Permanent Magnet and Wound Field Alternators, 4-Lead	ADV-5875A-M	11	ADV-5875A-M	11
Permanent Magnet Alternator, 12-Lead	ADV-5875B-M	12	ADV-5875B-M	12
Wound Field Alternator, 12-Lead	ADV-5875C-M	13	ADV-5875C-M	13

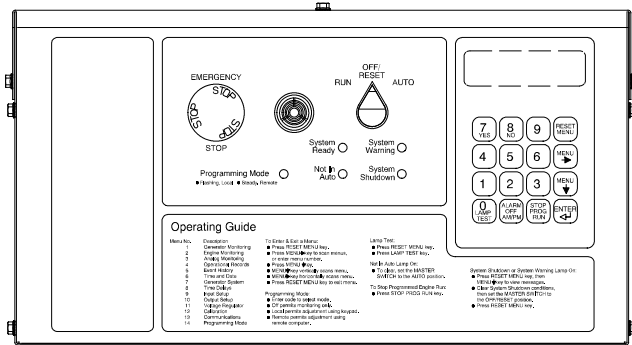
Note: Version 4-2 represents GM engines with SAE J1939 communications.

125RES, 125RZG, and 150RZGB Wiring Diagrams Reference

Controller Description	Version 5-1	Page	Version 5-2	Page
Decision-Maker® 550 Controller				
Point-to-Point Wiring Diagram				
Sheet 1	GM25329A-F	59	GM34401A-F	67
Sheet 2	GM25329B-F	60	GM34401B-F	68
Permanent Magnet Alternator	GM35943-D	71	GM35943-D	71
Wound Field Alternator	GM35944-C	72	GM35944-C	72
Schematic Diagram				
Sheet 1	ADV-6790A-F	28	ADV-6931A-D	35
Sheet 2	ADV-6790B-F	29	ADV-6931B-D	36
Sheet 3	ADV-6790C-F	30	—	
Permanent Magnet Alternator	ADV-6957-B	39	ADV-6957-B	39
Wound Field Alternator	ADV-6958-A	40	ADV-6958-A	40
Accessory Connections				
Accessories	GM16088A-H	47	GM16088A-H	47
Remote Annunciator Kit	GM16088B-H	48	GM16088B-H	48
Decision-Maker® 3+ Controller				
Point-to-Point Wiring Diagram				
Sheet 1	GM25000A-J	55	GM25000A-K	57
Sheet 2	GM25000B-J	56	GM25000B-K	58
Permanent Magnet Alternator	GM35941-G	69	GM35941-G	69
Wound Field Alternator	GM35942-J	70	GM35942-J	70
Schematic Diagram				
Sheet 1	ADV-6789A-H	24	ADV-6789A-J	26
Sheet 2	ADV-6789B-H	25	ADV-6789B-J	27
Permanent Magnet Alternator	ADV-6955-C	37	ADV-6955-C	37
Wound Field Alternator	ADV-6956-E	38	ADV-6956-E	38
Accessory Connections				
Accessories	328912A-H	90	328912A-H	90
Remote Annunciator Kit	328912B-H	91	328912B-H	91
Engine Control	GM29996-B	66	GM29996-B	66
Alternator Reconnections				
Permanent Magnet and Wound Field Alternators, 4-Lead	ADV-5875A-M	11	ADV-5875A-M	11
Permanent Magnet Alternator, 12-Lead	ADV-5875B-M	12	ADV-5875B-M	12
Wound Field Alternator, 12-Lead	ADV-5875C-M	13	ADV-5875C-M	13

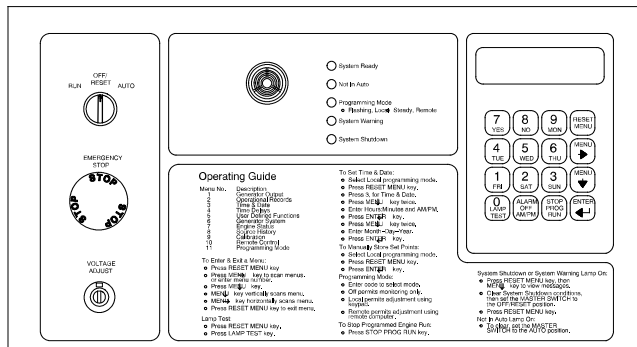
Note: Version 5-2 represents GM engines with SAE J1939 communications.

Controller Identification



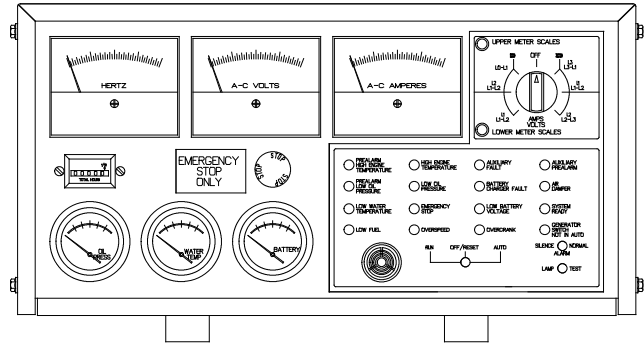
Decision-Maker® 550 Controller

- Audiovisual annunciation with NFPA 110 Level 1 capability.
- Programmable microprocessor logic and digital display features.
- Alternator safeguard circuit protection.
- 12- or 24-volt engine electrical system capability.
- Remote start, remote annunciation, and remote communication options.



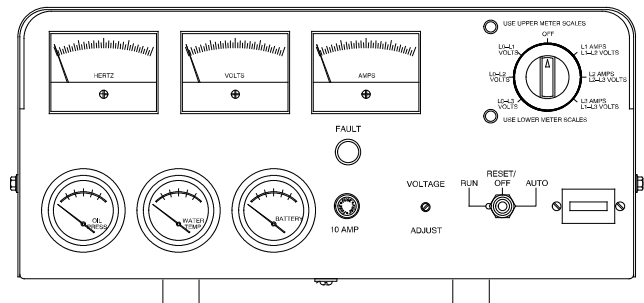
Decision-Maker® 340 Controller

- Audiovisual annunciation with NFPA 110 Level 1 capability.
- Programmable microprocessor logic and digital display features.
- 12- or 24-volt engine electrical system capability.
- Remote start, prime power, remote annunciation, and remote communication options.



Decision-Maker® 3+, 16-Light Controller

- Audiovisual annunciation with NFPA 110 Level 1 capability.
- Microprocessor logic, AC meters, and engine gauge features.
- 12- or 24-volt engine electrical system capability.
- Remote start, prime power, and remote annunciation options.



Decision-Maker® 1 Controller

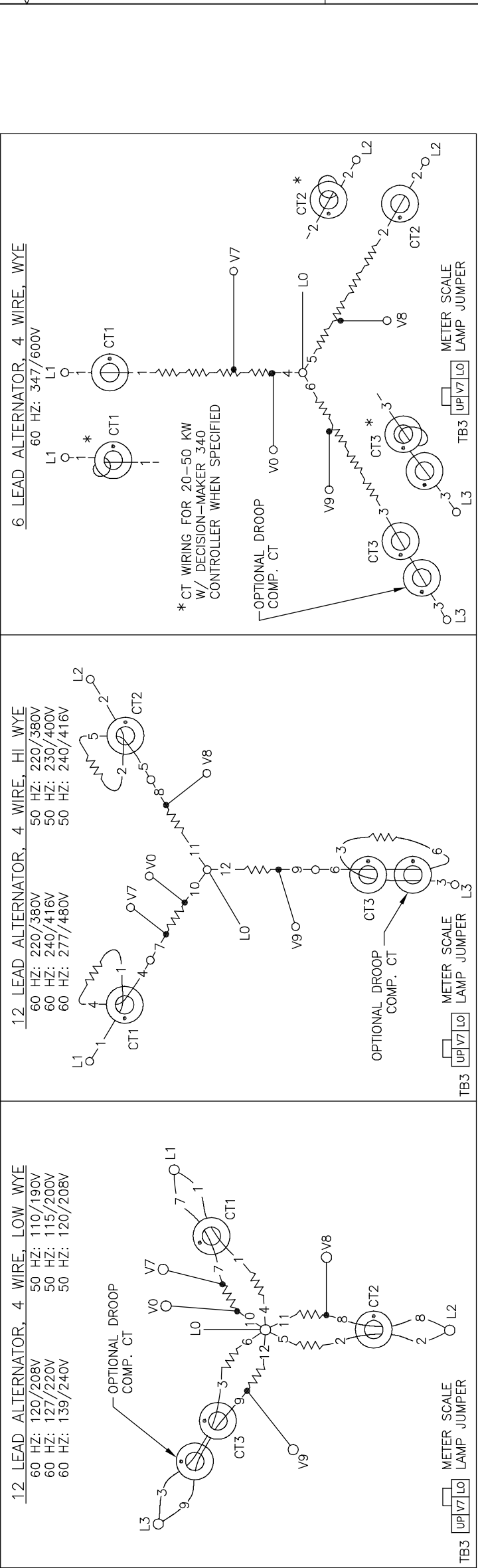
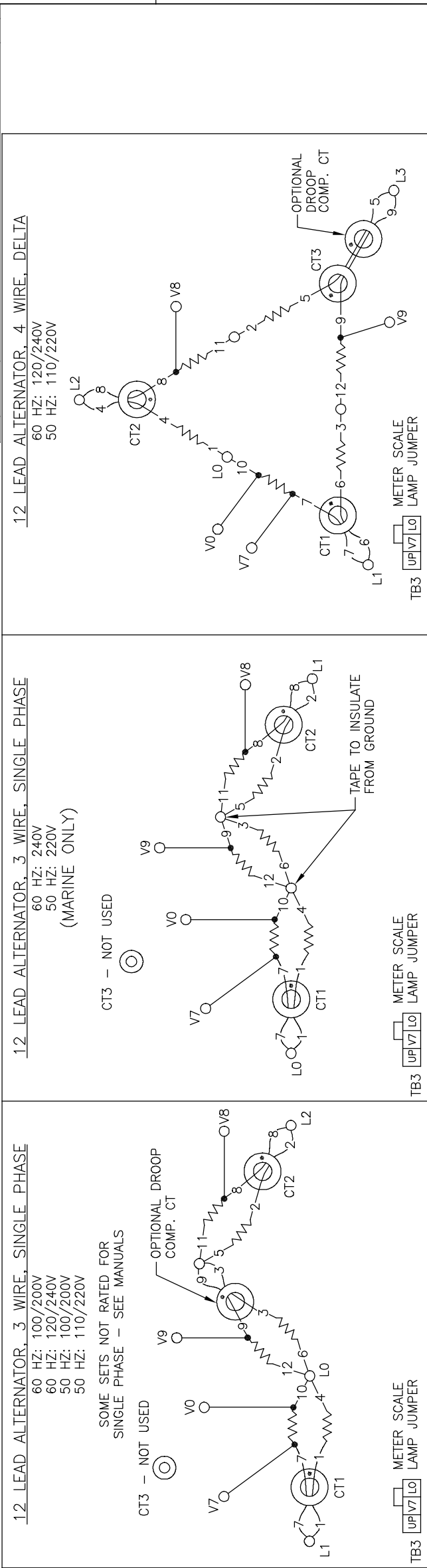
- Single-light annunciation and basic controls with NFPA capability.
- Relay logic, AC meters, and engine gauge features.
- 12-volt engine electrical system capability only.
- Remote or automatic start options.

REV	DATE	REVISION	BY	DATE
H	9-25-06	(A-1) SHEET 2 OF 4 WAS 1 OF 3 [77613]		
J	4-30-08	(A-B-2,3) 4/7, 5/8 & 6/9 CONNECTIONS MOVED TO OPPOSITE SIDE OF CT'S; SPECTRUM & SDMG VOIDED AND REMOVED; SEE SHEETS 1, 3 AND 4 [86250]		
K	9-9-08	(B-2) CT WIRING NOTE RESTORED [86307]		
L	11-19-08	SEE SHEET 3 [88648]		
M	6-29-10	SEE SHEET 4 [89870]		

2

σ

4



NOTES:

CURRENT TRANSFORMER DOT OR "H1" TOWARD GENERATOR.

CURRENT TRANSFORMERS NOT USED ON ALL SETS.

PHASE ROTATION

A B C

L1 L2 L3

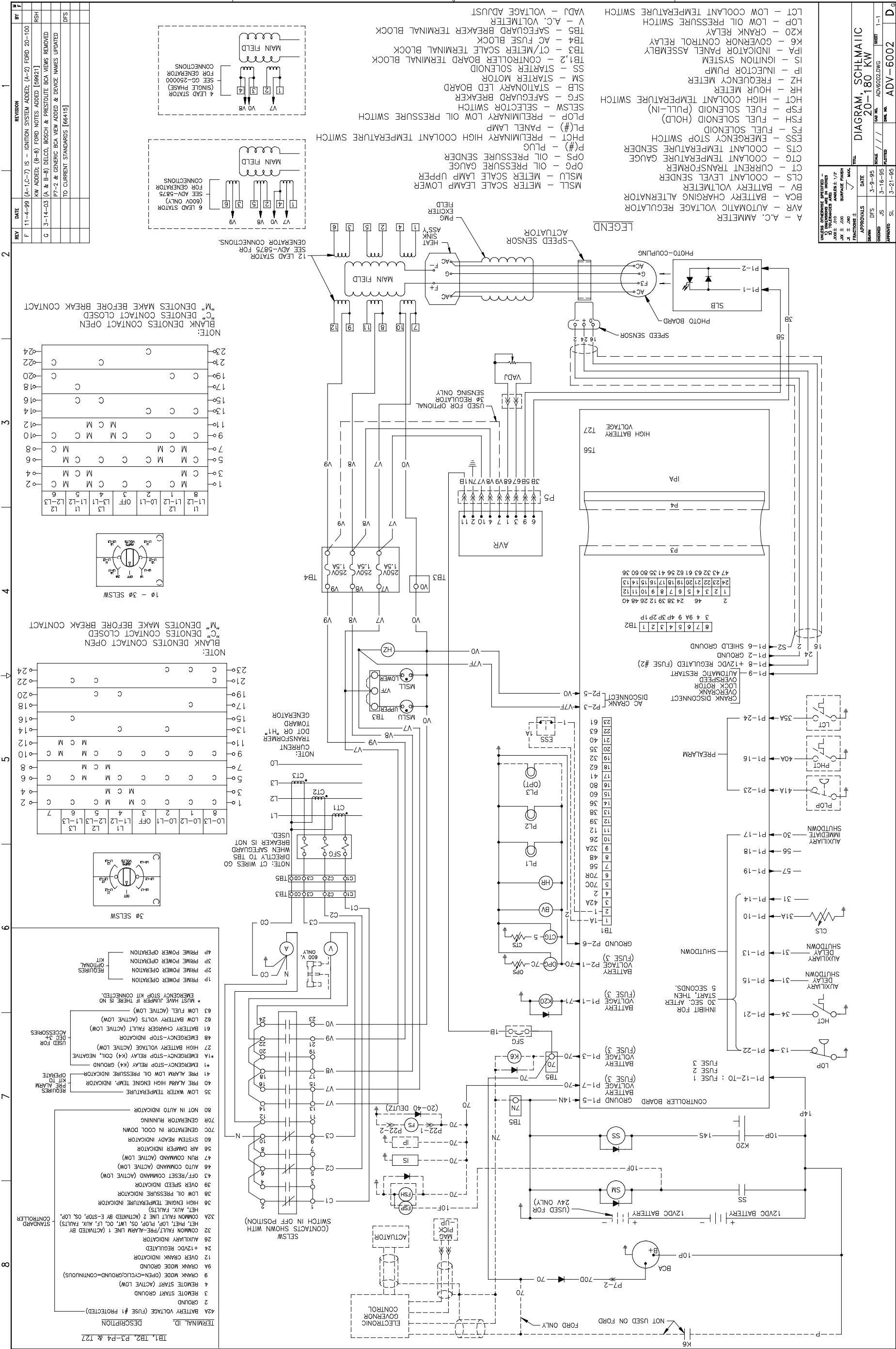
3 PHASE

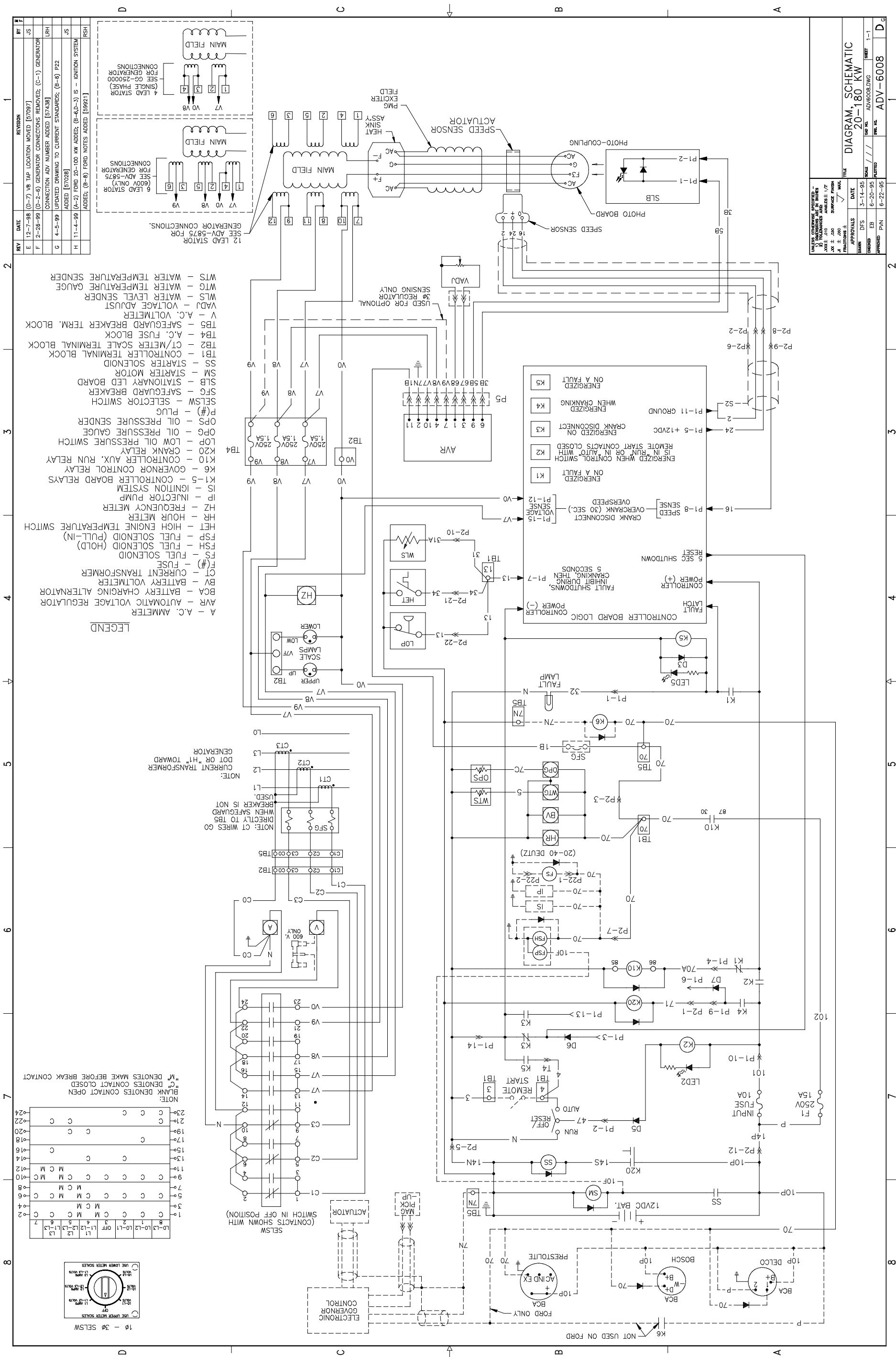
FRII ALTERNATORS,

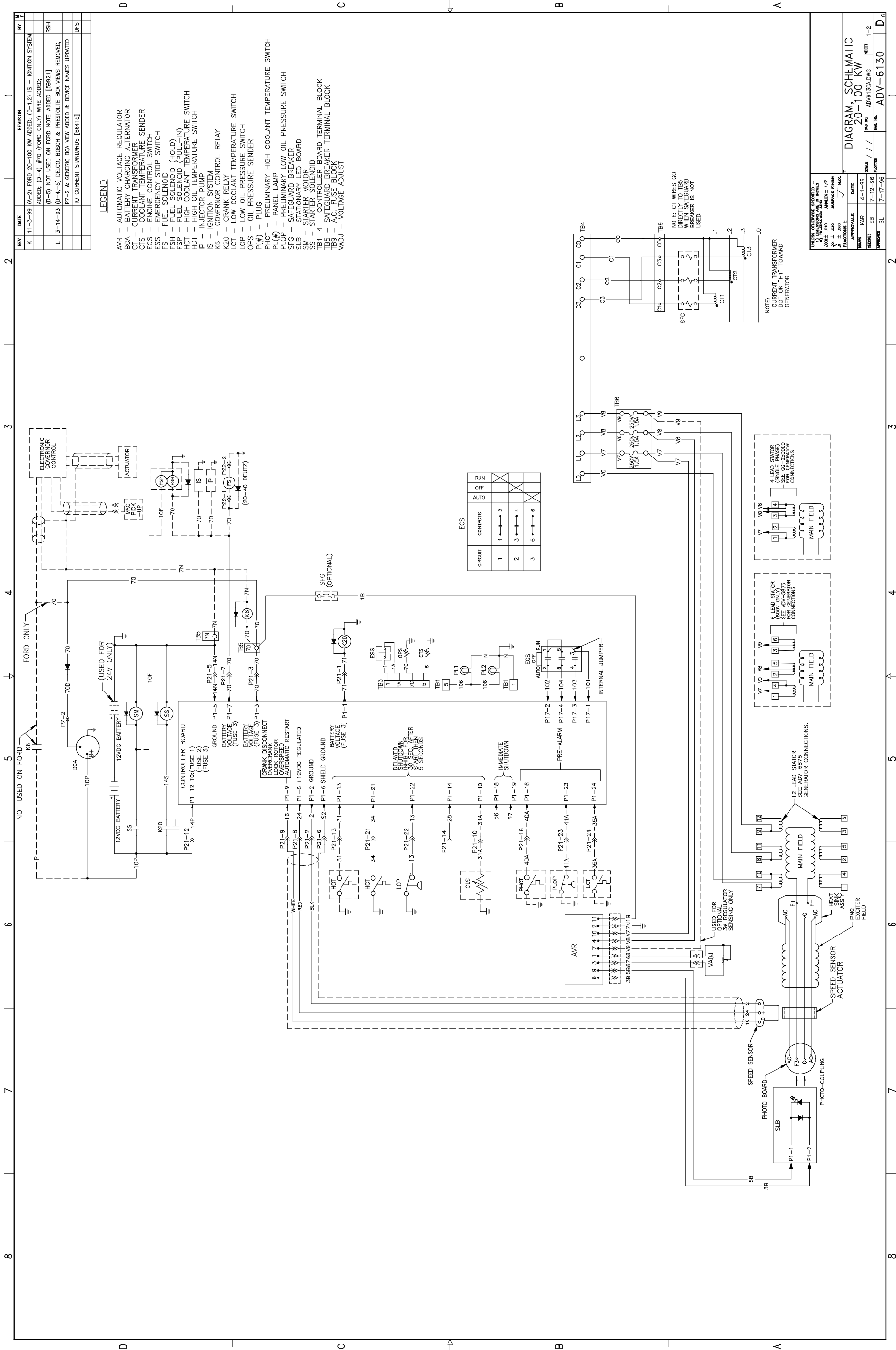
20-60KW WOUND EXCITER FIELD ALTERNATORS,

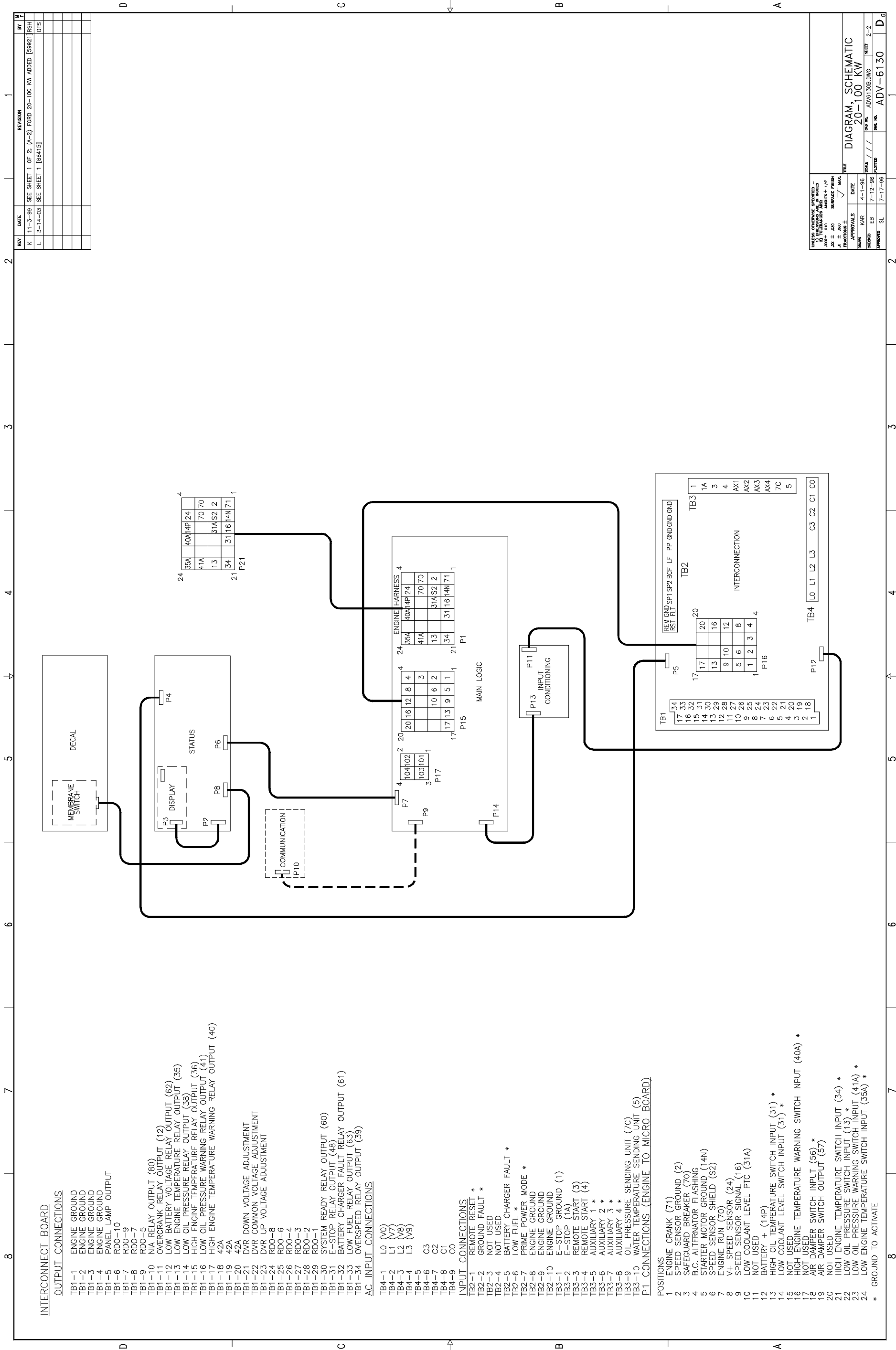
AND 10-20KW SMALL STANDBY

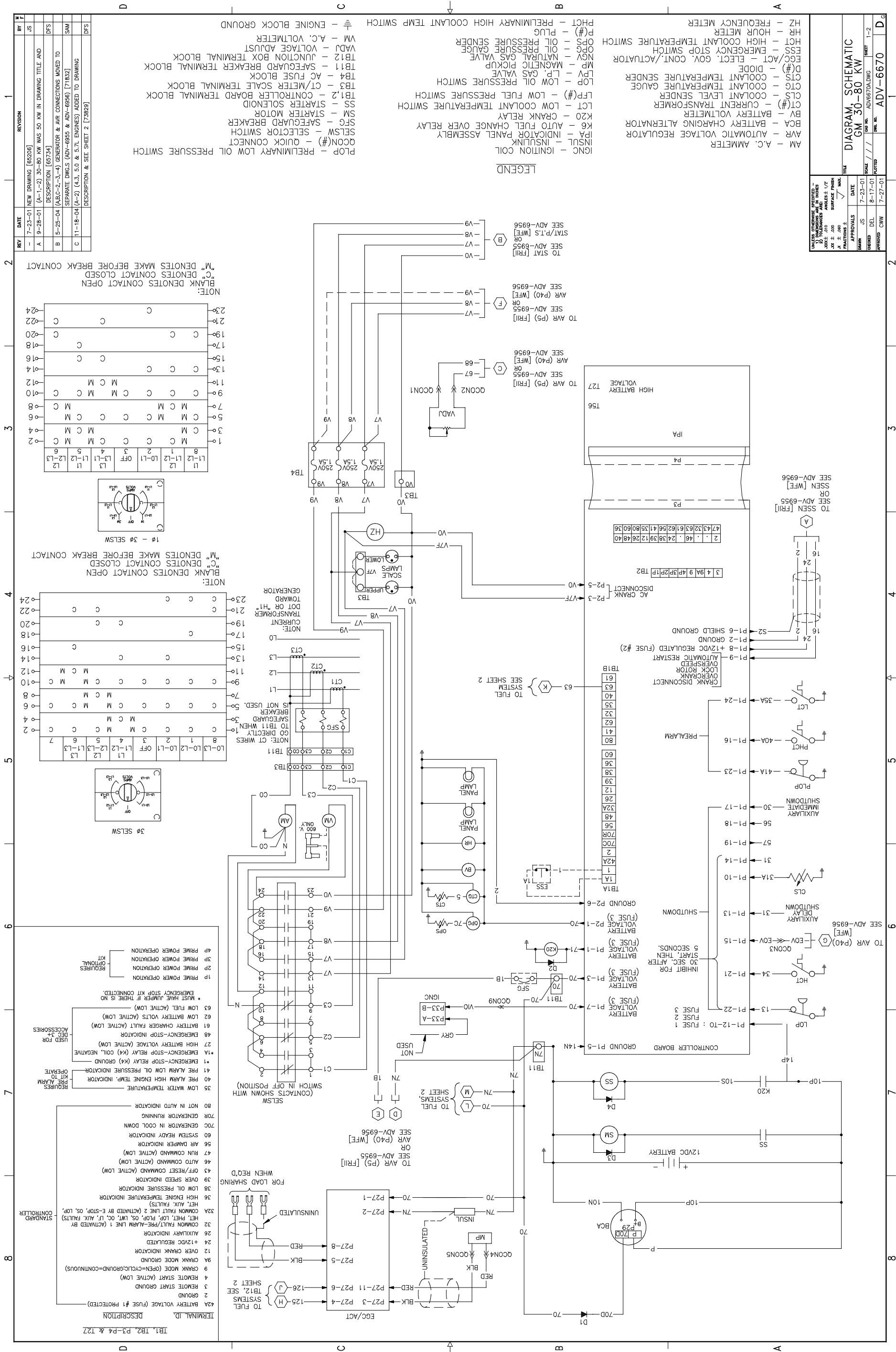
UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: XXX-1 .010 SURFACE FINISH -XX ± .000 -X ± .040 FRACTIONS ± ✓ MAX.		POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY, AND MUST NOT BE REPRODUCED OR USED FOR ANY OTHER PROJECT OR WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
TITLE		DIAGRAM, RECONNECTABLE	
DRAWN	DFS	7-28-92	
CHECKED	TLK	6-23-99	
APPROVED	JMH	6-23-99	
SCALE		NONE	CAD NO.
PLOTTED			DWG. NO.
			SHEET
			2-4
			ADV-5875
			C



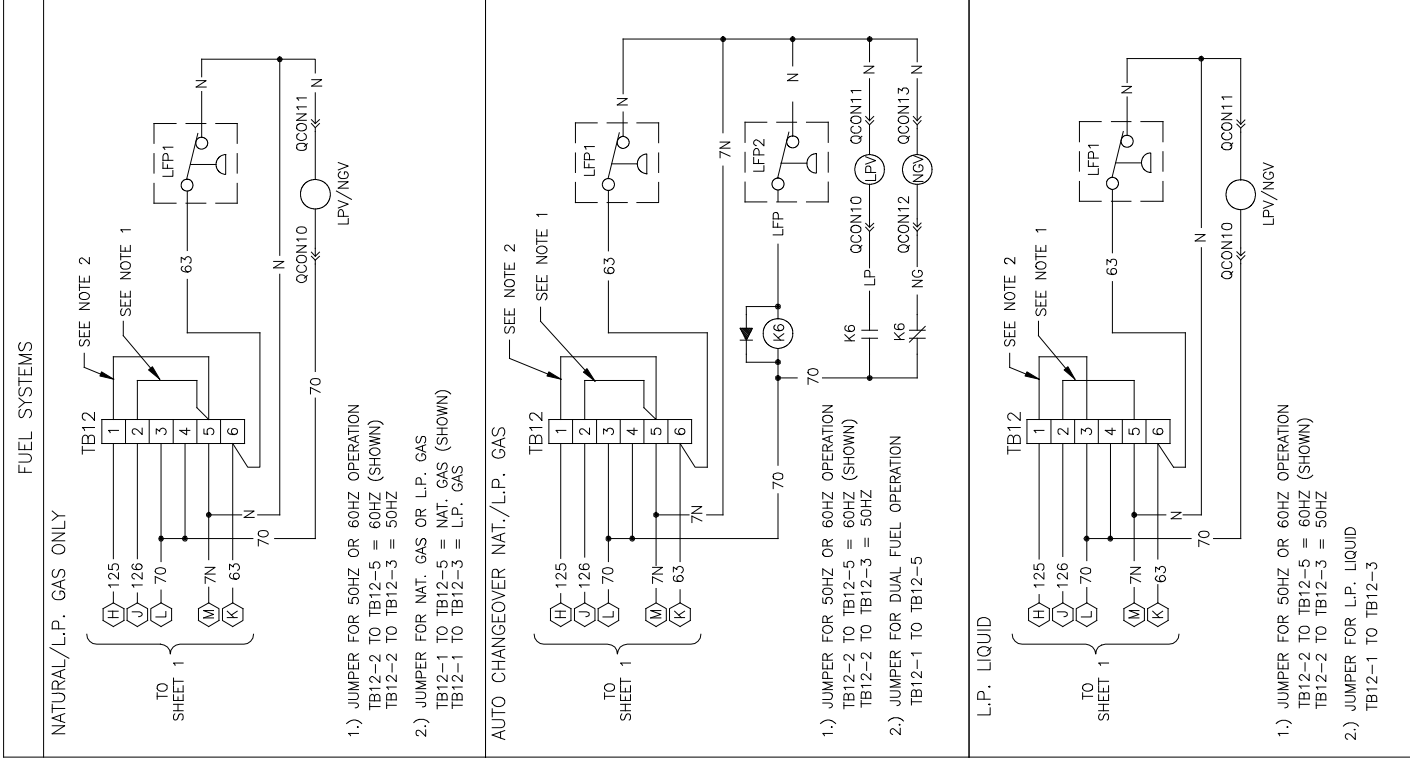


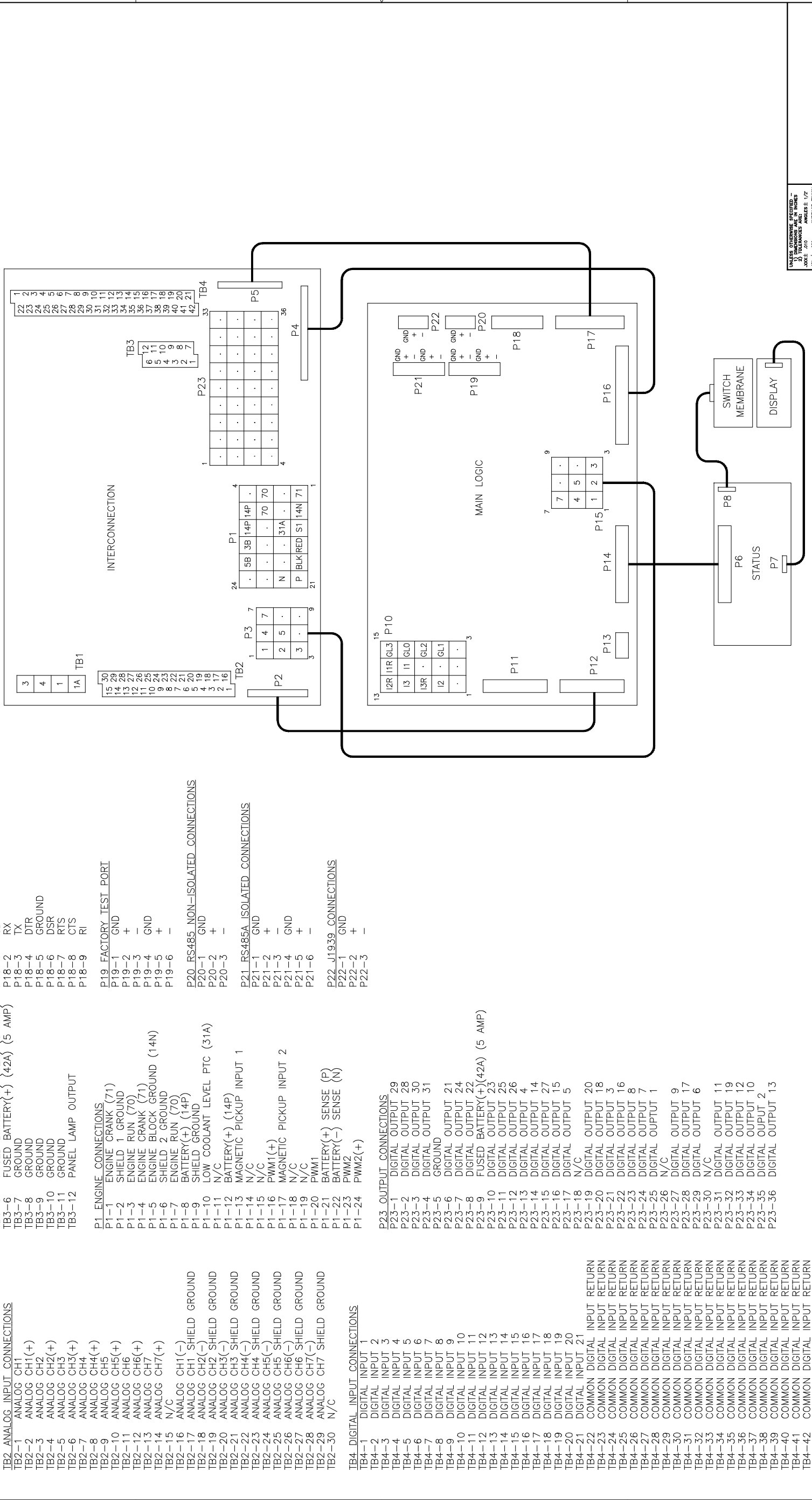






REV	DATE	REVISION	BY	CHK
-	7-23-01	NEW DRAWING [65206]		
A	9-28-01	(A-1, -2) 30-80 KW WAS 50 KW IN DRAWING TITLE AND DESCRIPTION [85734]	JS	
B	5-26-04	SEE SHEET 1 [71832]	DPS	
C	11-18-04	(A-2) (4.3, 5.0 & 5.7 ENGINES) ADDED TO DRAWING DESCRIPTION & SEE SHEET 1 [73629]	SAM	
			DPS	

[illegible]

[illegible]

UNLESS OTHERWISE SPECIFIED - ALL DIMENSIONS IN INCHES 3) TOLERANCES ARE ANGLES ± 1/2° XX ± .010 XX ± .005 SURFACE FINISH FRACTIONS ± 1/16"	DATE	APPROVALS	DATE	SCALE	GM 30-80 SW	ADV6671-BD WING	QAP NO.	ADV-6671	D ₆
	DRAWN	IS	7-23-01	2-2-01	DIAGRAM, SCHEMATIC				
	DESIGNED	DEL	8-17-01	7-27-01					
	APPROVED	CNW	7-27-01						

Diagram illustrating the electrical system components and wiring for a vehicle, including the engine, generator, battery, and various control modules.

Legend:

- AM - A.C. AMMETER
- AVR - AUTOMATIC VOLTAGE REGULATOR
- BCA - BATTERY CHARGING ALTERNATOR
- BV - BATTERY VOLTAGE
- CT(#)- CURRENT LEVEL SENDER
- CLS - COOLANT LEVEL SENDER
- CTG - COOLANT TEMPERATURE GAUGE
- D(#)- DIODE
- ECM - ELECTROMIC CONTROL MODULE (E-CONTROLS)
- ESS - EMERGENCY STOP SWITCH
- FV(#)- FUEL VALVE
- HR - HOUR METER
- HZ - FREQUENCY METER
- IPA - INDICATOR PANEL ASSEMBLY
- K20 - CRANK RELAY
- LCT - LOW COOLANT TEMPERATURE SWITCH
- LFPS - LOW FUEL PRESSURE AUTO SHUTDOWN SWITCH
- LFP - LOW OIL PRESSURE SWITCH
- LP - LIQUID PROPANE

Diagram Details:

- Engine:** Shows the engine block, generator, and various sensors (V9, V8, V7, V6, V5, V4, V3, V2, V1, V0).
- Generator:** Includes the generator assembly, voltage regulator (V0), and various sensors (V9, V8, V7, V6, V5, V4, V3, V2, V1, V0).
- Battery:** Shows the battery assembly, voltage regulator (V0), and various sensors (V9, V8, V7, V6, V5, V4, V3, V2, V1, V0).
- Control Modules:** Includes the ECM, BCM, and various sensors (V9, V8, V7, V6, V5, V4, V3, V2, V1, V0).
- Wiring:** Shows the wiring harness connecting the engine, generator, battery, and control modules.

Terminal ID: TB1, TB2, P3-P4, & T22

Legend:

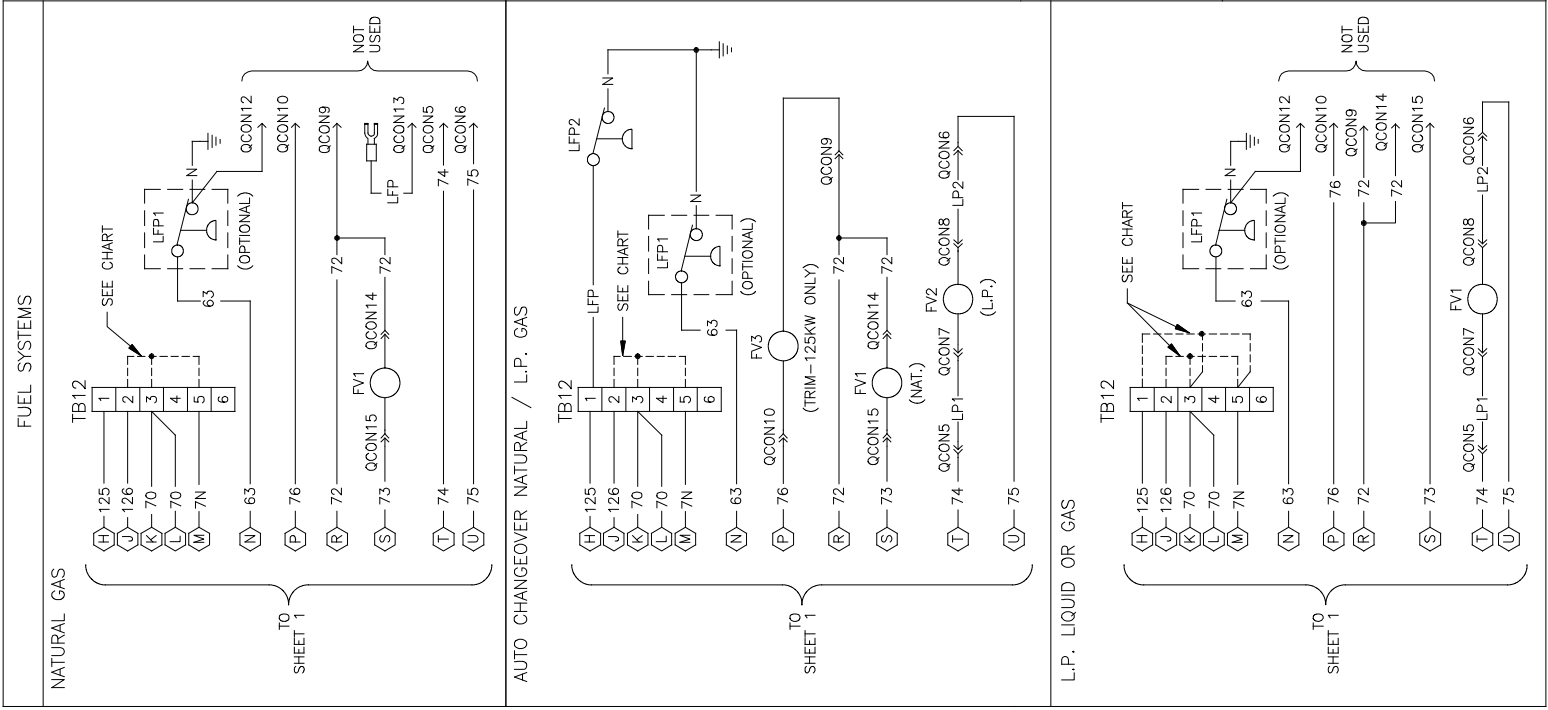
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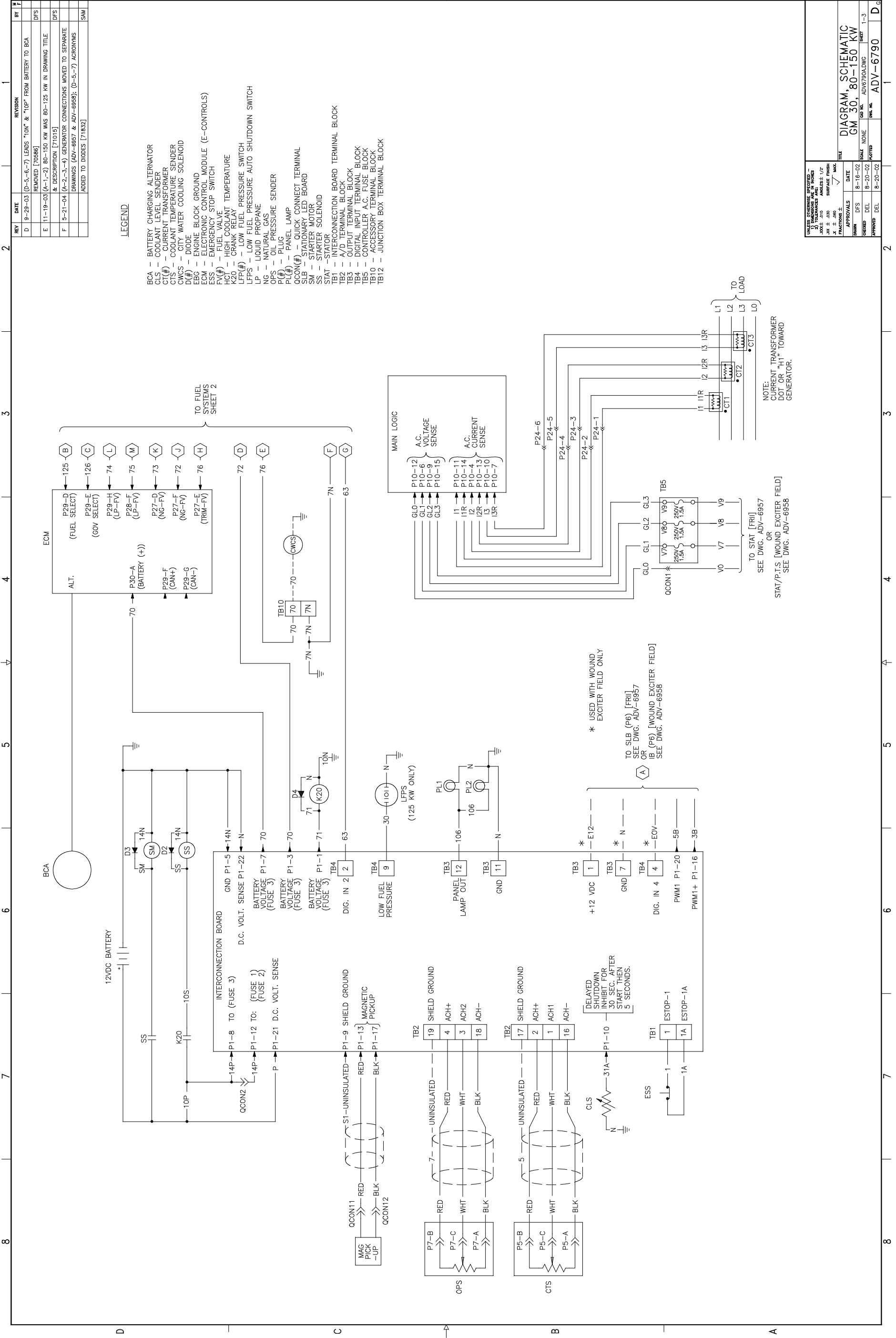
Diagram Details:

- Engine:** Shows the engine block, generator, and various sensors (V9, V8, V7, V6, V5, V4, V3, V2, V1, V0).
- Generator:** Includes the generator assembly, voltage regulator (V0), and various sensors (V9, V8, V7, V6, V5, V4, V3, V2, V1, V0).
- Battery:** Shows the battery assembly, voltage regulator (V0), and various sensors (V9, V8, V7, V6, V5, V4, V3, V2, V1, V0).
- Control Modules:** Includes the ECM, BCM, and various sensors (V9, V8, V7, V6, V5, V4, V3, V2, V1, V0).
- Wiring:** Shows the wiring harness connecting the engine, generator, battery, and control modules.

Terminal ID: TB1, TB2, P3-P4, & T22

REV	DATE	REVISION	BY
G	5-26-04	SEE SHEET 1 [7182]	SM
H	11-18-04 (A-2)	(3.0 & 8.1 ENGINES) ADDED TO DRAWING DESCRIPTION & SEE SHEET 1 [73829]	DPS

[illegible]



INTERCONNECT BOARD

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

TB2 ANALOG INPUT CONNECTIONS

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

TB4 DIGITAL INPUT CONNECTIONS

- TB4-1 DIGITAL INPUT 1
- TB4-2 DIGITAL INPUT 2
- TB4-3 DIGITAL INPUT 3
- TB4-4 DIGITAL INPUT 4
- TB4-5 DIGITAL INPUT 5
- TB4-6 DIGITAL INPUT 6
- TB4-7 DIGITAL INPUT 7
- TB4-8 DIGITAL INPUT 8
- TB4-9 DIGITAL INPUT 9
- TB4-10 DIGITAL INPUT 10
- TB4-11 DIGITAL INPUT 11
- TB4-12 DIGITAL INPUT 12
- TB4-13 DIGITAL INPUT 13
- TB4-14 DIGITAL INPUT 14
- TB4-15 DIGITAL INPUT 15
- TB4-16 DIGITAL INPUT 16
- TB4-17 DIGITAL INPUT 17
- TB4-18 DIGITAL INPUT 18
- TB4-19 DIGITAL INPUT 19
- TB4-20 DIGITAL INPUT 20
- TB4-21 DIGITAL INPUT 21
- TB4-22 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

- 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 TX
- TB3-9 DTR
- TB3-10 GROUND
- TB3-11 DSR
- TB3-12 RTS
- TB3-13 CTS
- TB3-14 RI

P1 ENGINE CONNECTIONS

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

P23 OUTPUT CONNECTIONS

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

MAIN LOGIC BOARD

- P13-1 GROUND
- P13-2 +5 VD

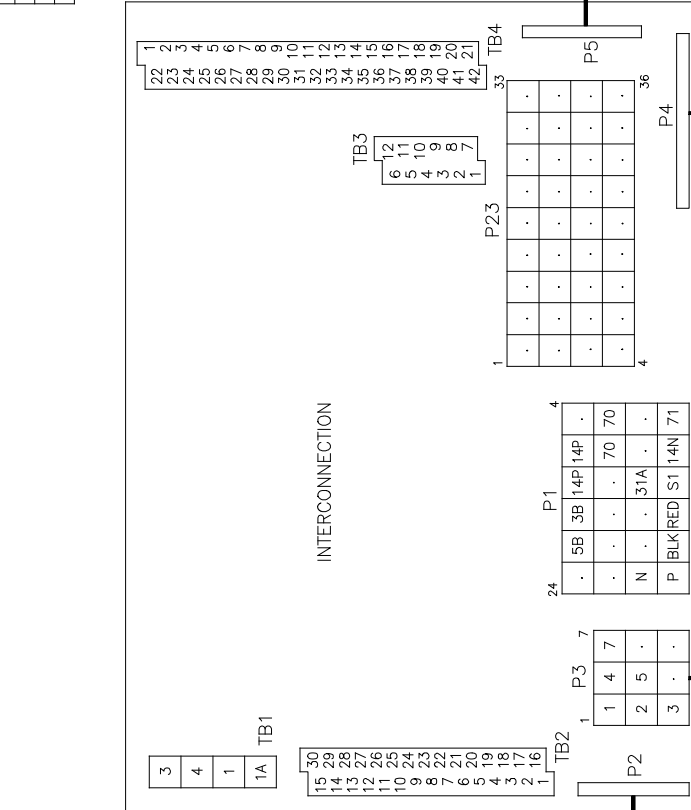
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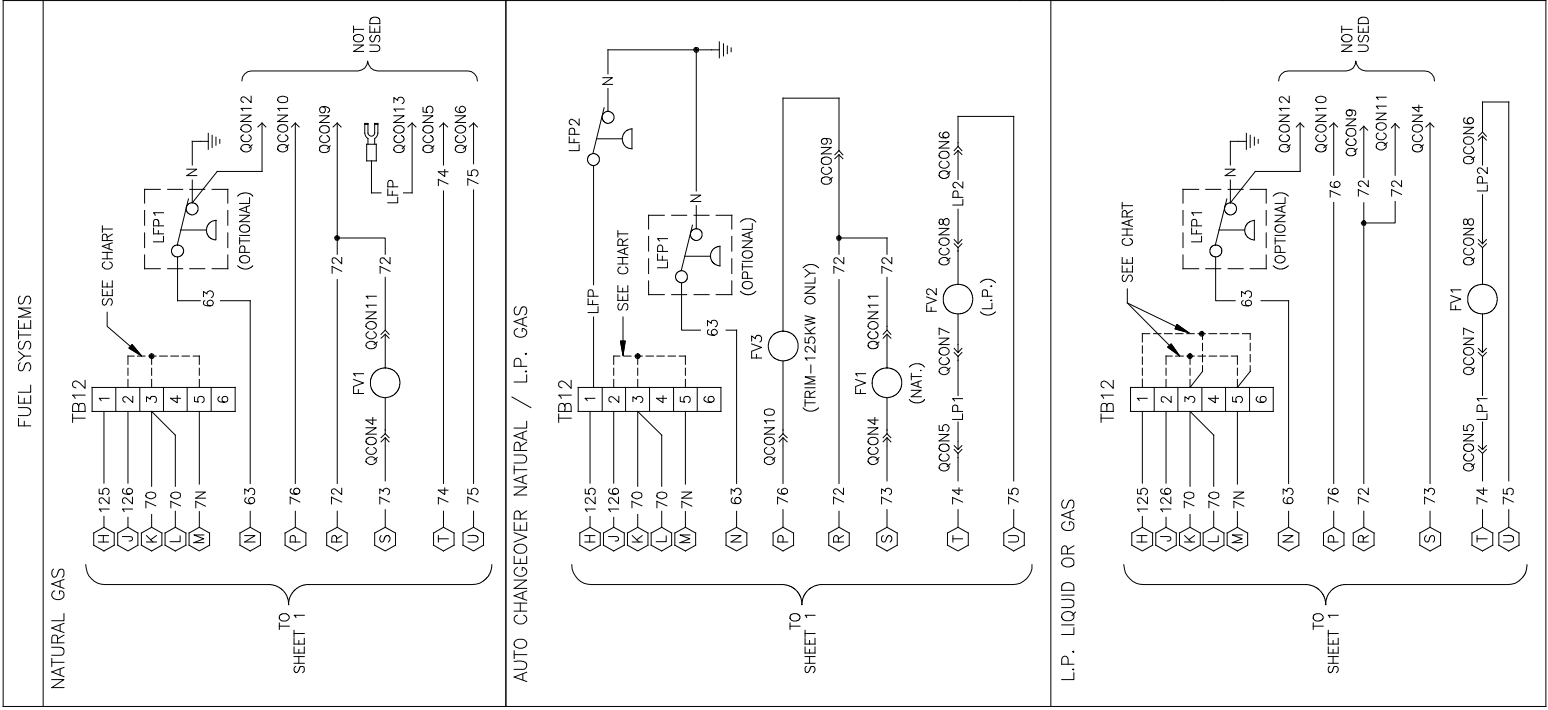
- P18-1 CD
- P18-2 RX
- P18-3 TX
- P18-4 DTR
- P18-5 GROUND
- P18-6 DSR
- P18-7 RTS
- P18-8 CTS
- P18-9 RI

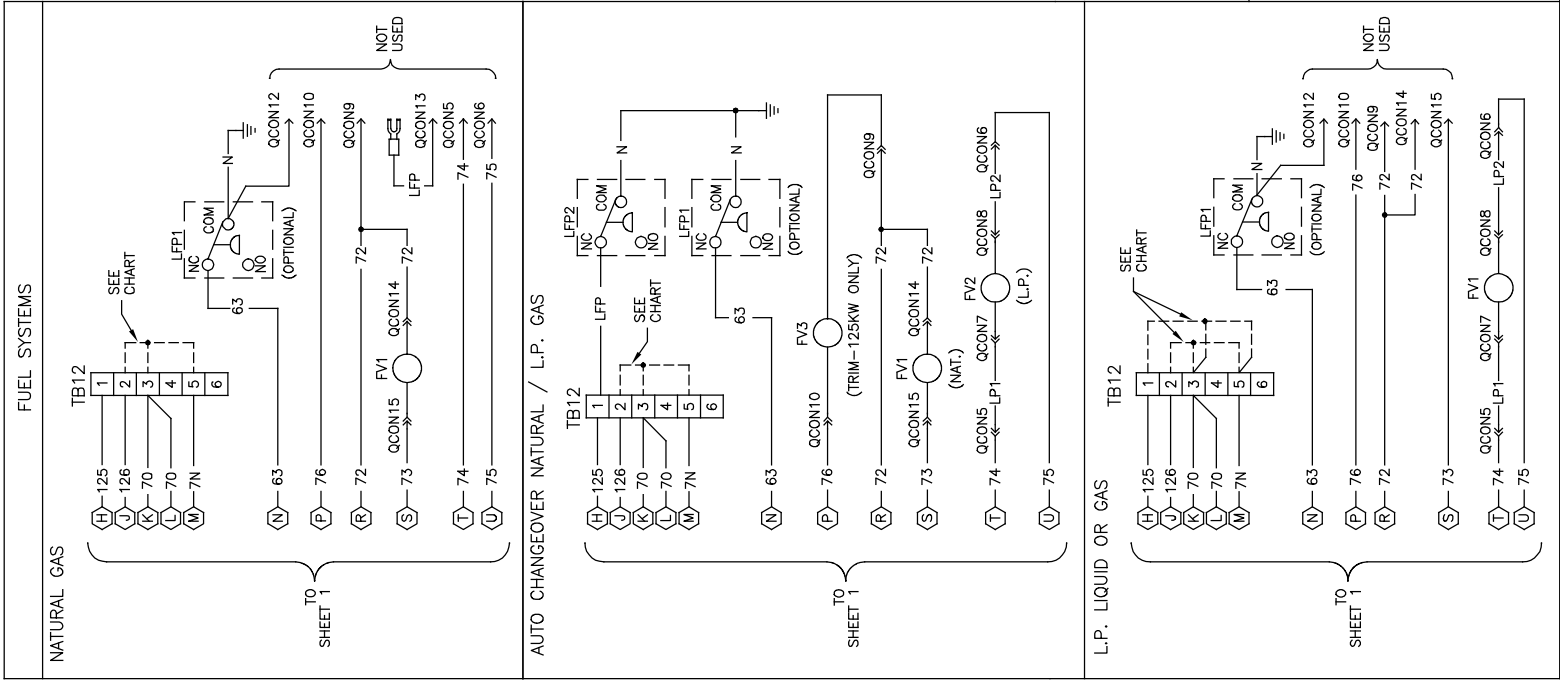
P19_FACTORY_TEST_PORT

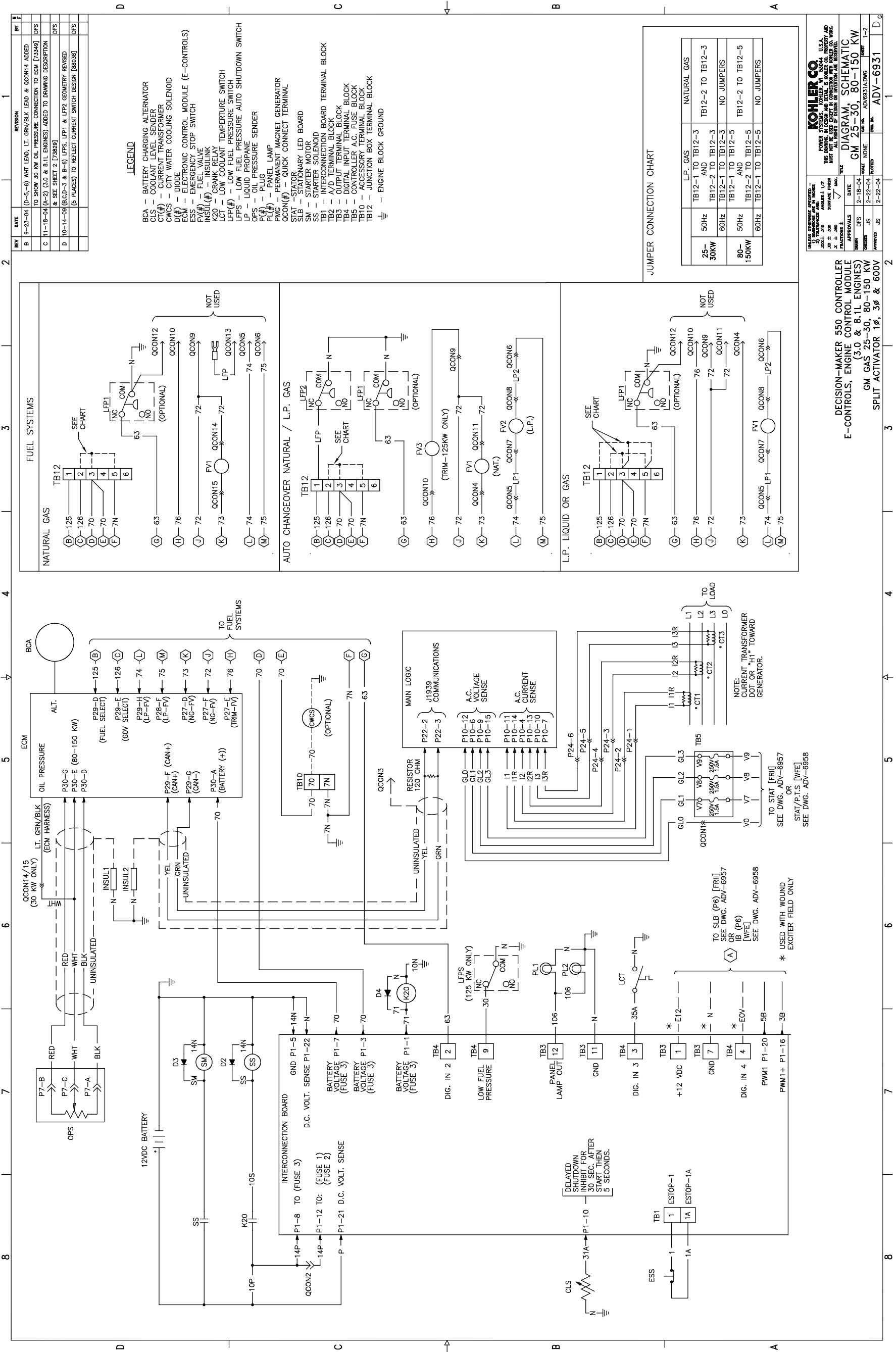
- P19-1 GND
- P19-2 +
- P19-3 -
- P19-4 GND
- P19-5 +
- P19-6 -
- P20_RS485_NON-ISOLATED_CONNECTIONS
- P20-1 GND
- P20-2 +
- P20-3 -
- P21_RS485A_ISOLATED_CONNECTIONS
- P21-1 GND
- P21-2 +
- P21-3 -
- P21-4 GND
- P21-5 +
- P21-6 -
- P22_J1939_CONNECTIONS
- P22-1 GND
- P22-2 +
- P22-3 -

INTERCONNECTION









REVISION

REV	DATE	REVISION
B	9-23-04	(D-5--6) WHT LEAD, LT. GRN/BLK LEAD & QCON14 ADDED TO SHOW 30 KW OIL PRESSURE CONNECTION TO ECM [73349]
C	11-18-04(A-2)	(3.0 & 8.1L ENGINES) ADDED TO DRAWING DESCRIPTION & SEE SHEET 2 [73820]
D	10-14-08	(8.0L-3 & B-6) LPS, LFP1 & LFP2 GEOMETRY REVISED TO REFLECT CURRENT SWITCH DESIGN [80038]

APPROVALS

APPROVED	DATE	SCALE	FIG. NO.
US	2-22-04	NONE	ADV6931A/DWG

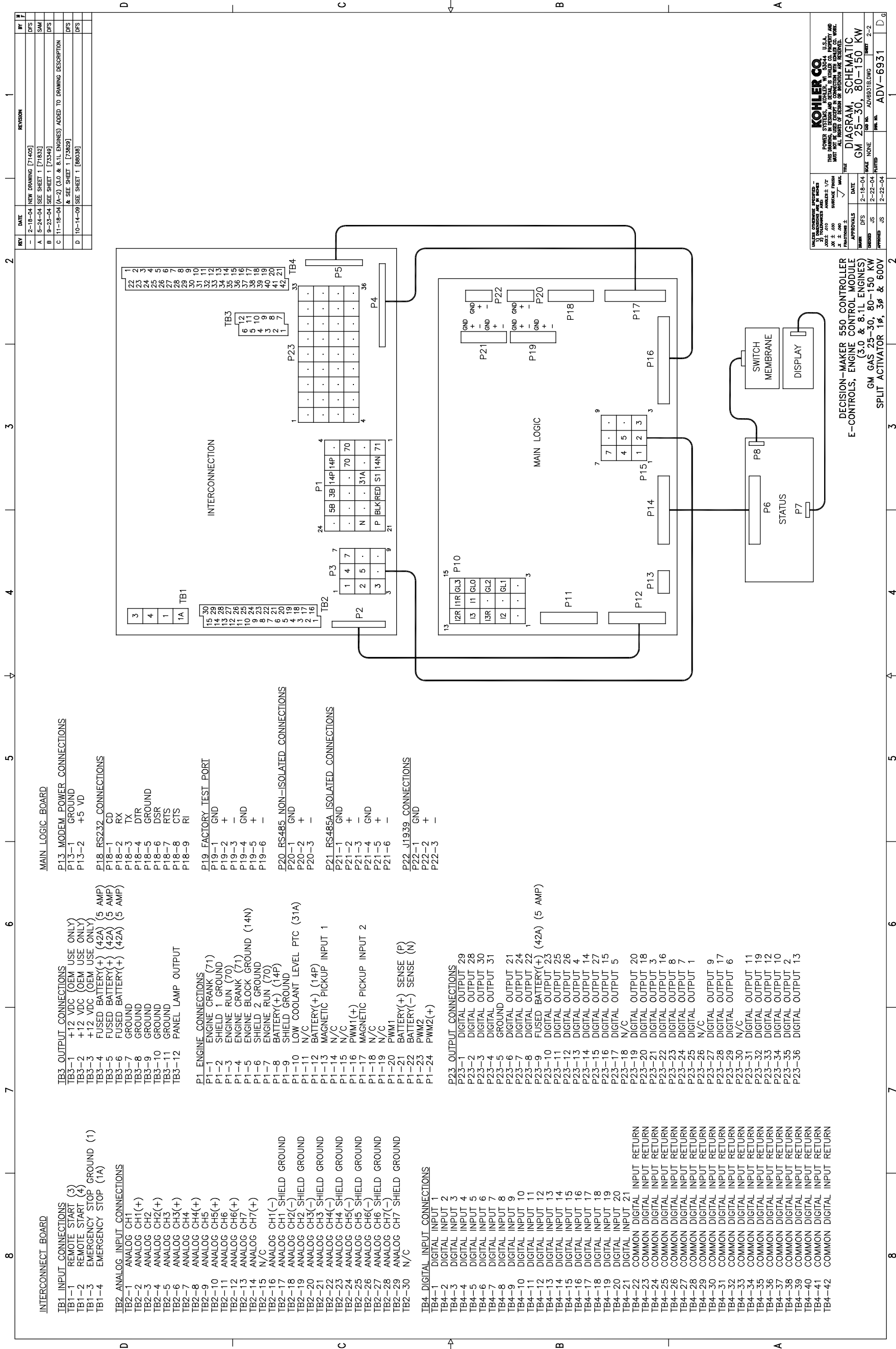
COHLENTZ

POWER SYSTEMS, KOHLER, WI 53044 U.S.A.
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DIAGRAM, SCHEMATIC

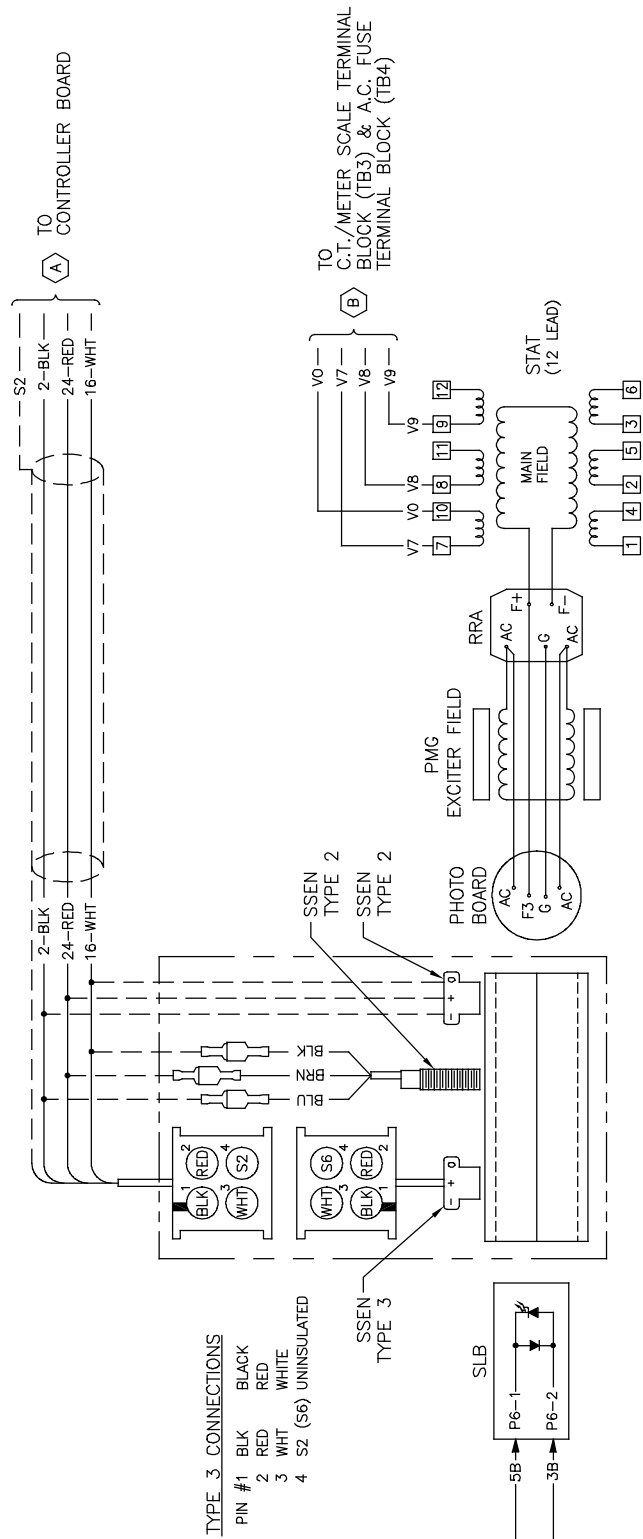
GM 25-30, 80-150 KW

ADV-6931

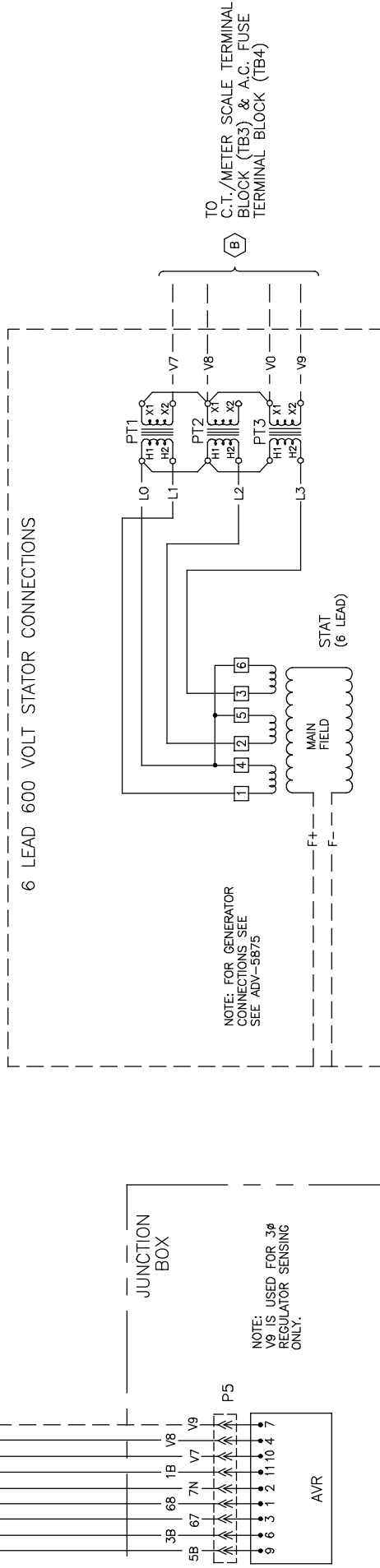
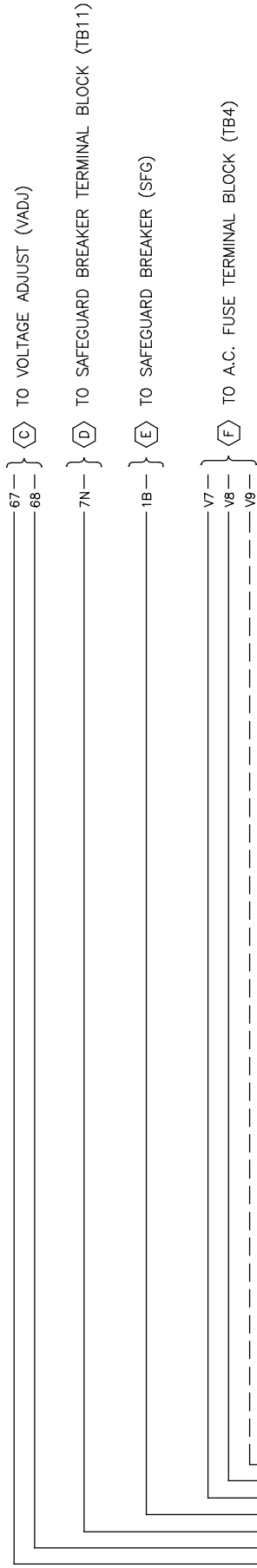


REV	DATE	REVISION	BY	APP
-	5-19-04	NEW DRAWING [71832]		
A	10-27-04	(C.D-67) SSEN TYPE 2 ADDED [73348]		DFS
B	4-25-06	(C.D-67) SSEN TYPE 3 ADDED; SDCMG & SPECTRUM VOIDED AND REMOVED [84202]		DFS
C	11-19-08	(A-5) 6 LEAD 600 VOLT STATOR DETAIL ADDED [86648]		SEM
				CRS

GENERATOR



NOTE: FOR GENERATOR CONNECTIONS SEE SEE ADV-5875 THREE PHASE.



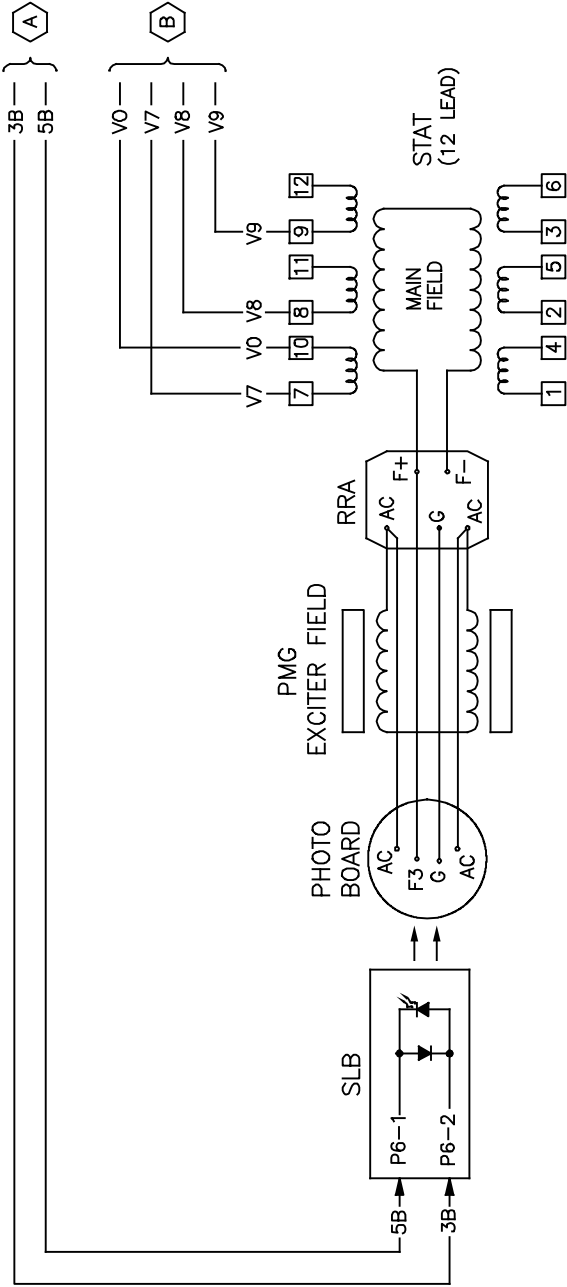
NOTE:
V9 IS USED FOR 3Ø
REGULATOR SENSING
ONLY.

UNLESS OTHERWISE NOTED - ALL DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS .5 DECIMALS .005 SURFACE FINISH 1/2		DATE		CAR. NO.		SHEET	
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SURFACE FINISH 1/2		5-20-04		///			
FRACTIONS .5		5-20-04		///			
DECIMALS .005		5-20-04		///			
SURFACE FINISH 1/2		5-20-04		///			
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DECIMALS .005		5-20-04		///			
SURFACE FINISH 1/2		5-20-04		///			
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DECIMALS .005		5-20-04		///			
SURFACE FINISH 1/2		5-20-04		///			
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DECIMALS .005		5-20-04		///			
SURFACE FINISH 1/2		5-20-04		///			
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DECIMALS .005		5-20-04		///			
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DECIMALS .005		5-20-04		///			
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FRACTIONS .5		5-20-04		///			
DECIMALS .005							

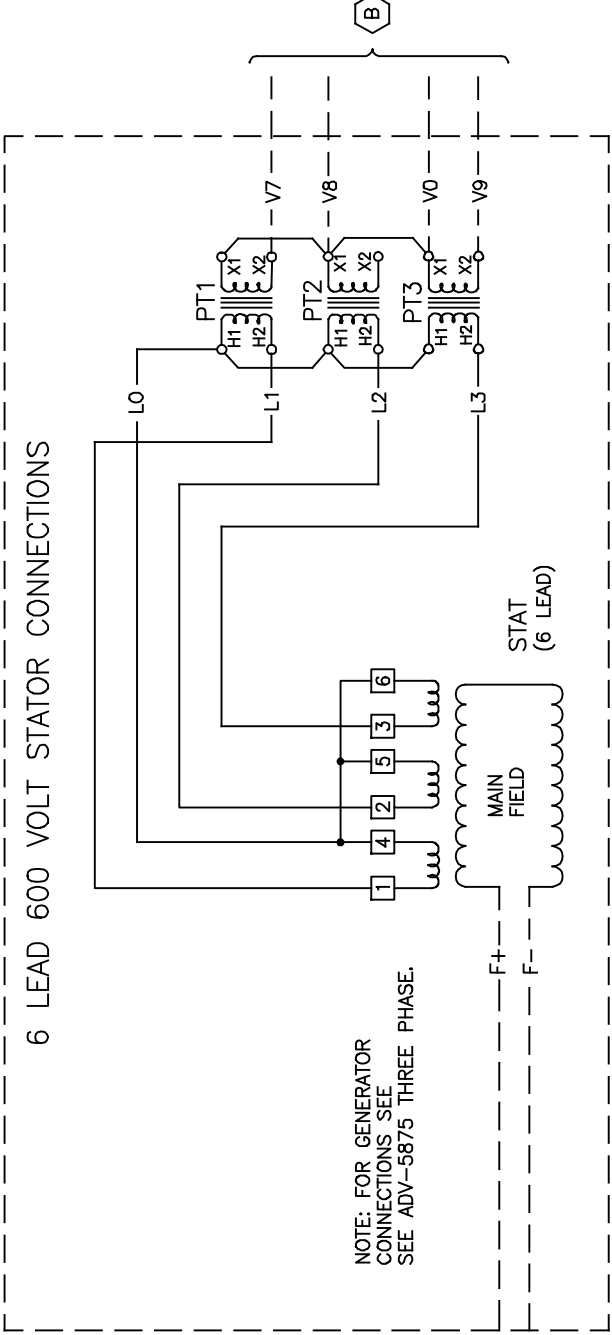
REV	DATE	REVISION	BY	CHK
-	5-19-04	NEW DRAWING [71832]		
A	11-19-08 (A-3)	6 LEAD 600V STATOR DETAIL ADDED [86648]	DFS	
B	8-3-11 (A-2)	FRI & DECISION-MAKER 550 NOTE REMOVED [92098]	CRS	

GENERATOR

- LEGEND**
- PMG -- PERMANENT MAGNET GENERATOR
 - RRA -- ROTATING RECTIFIER ASSEMBLY
 - SLB -- STATIONARY LED BOARD
 - STAT -- STATOR

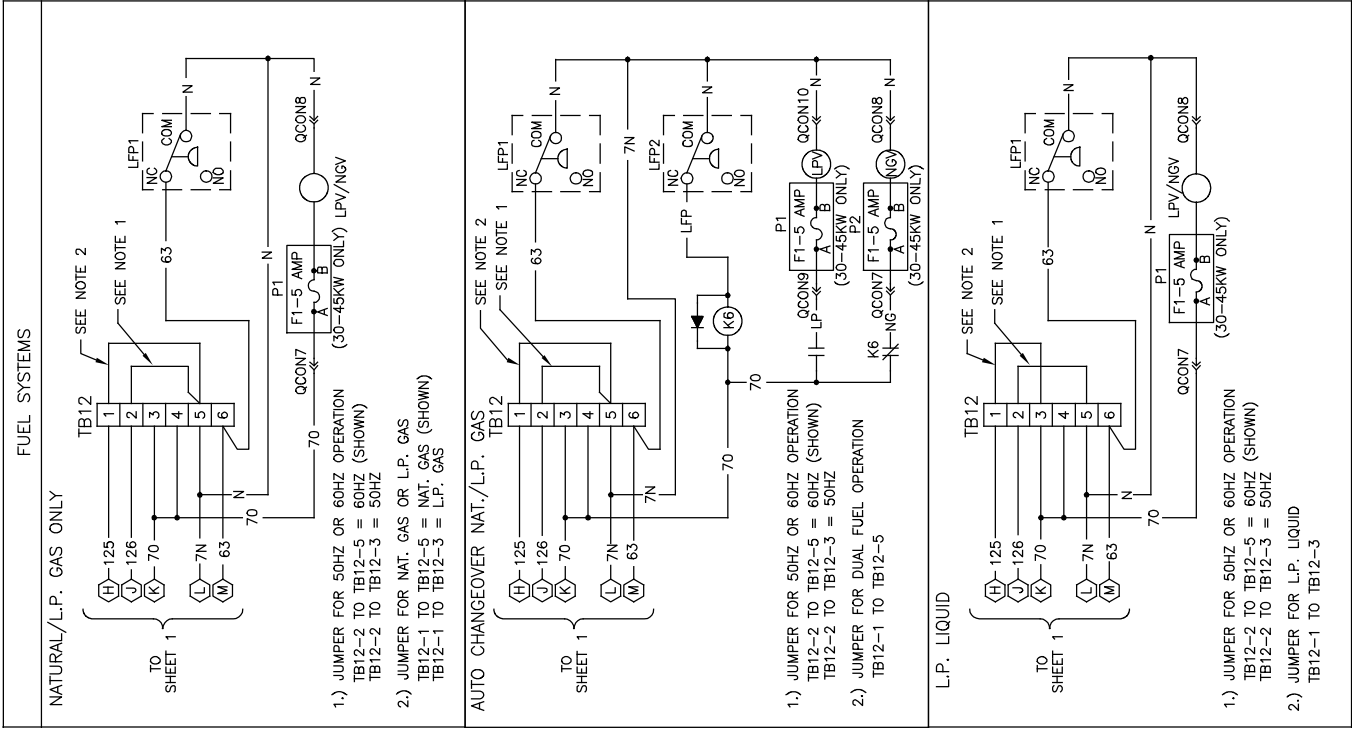


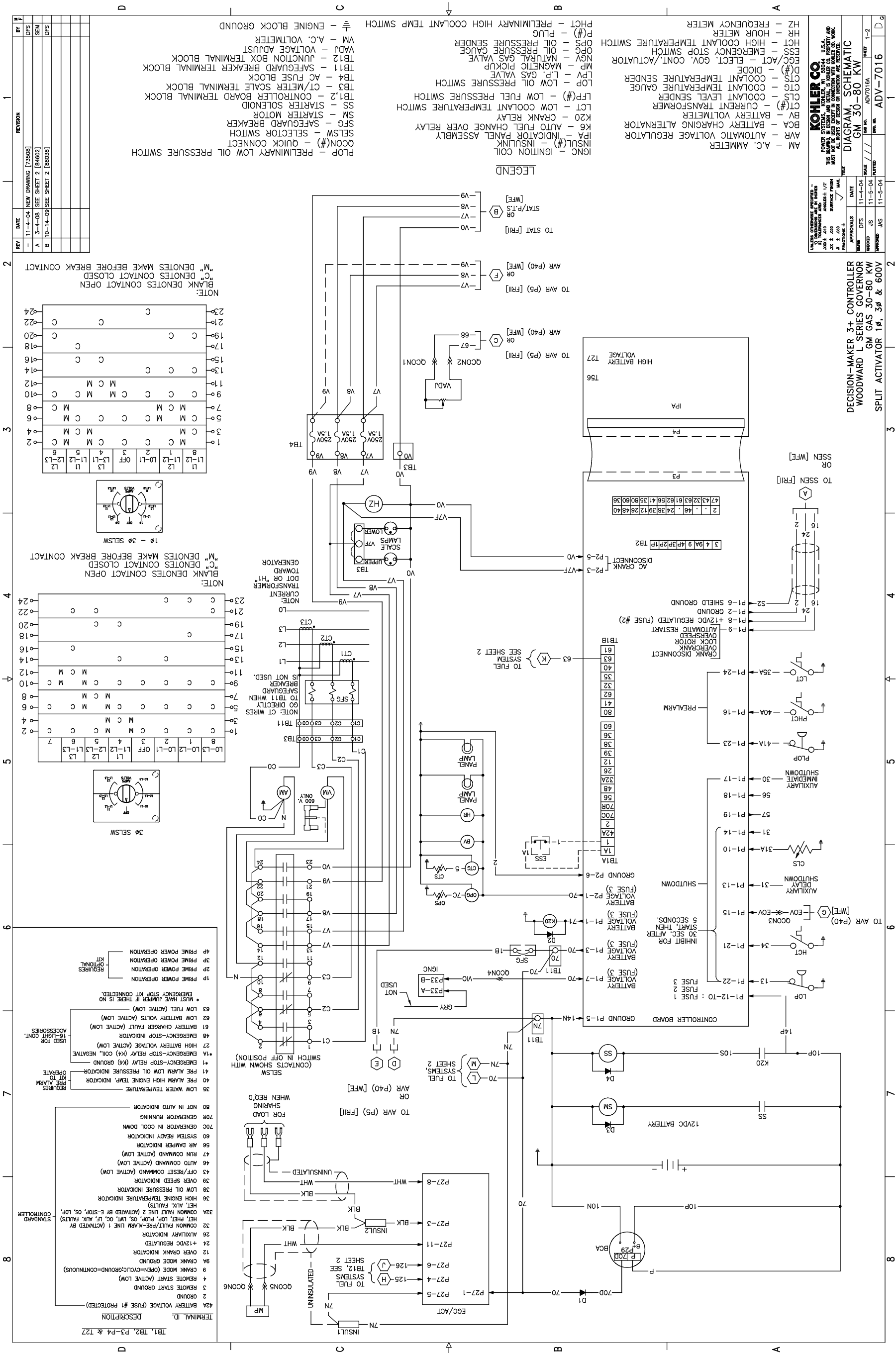
NOTE: FOR GENERATOR CONNECTIONS SEE ADV-5875 THREE PHASE.



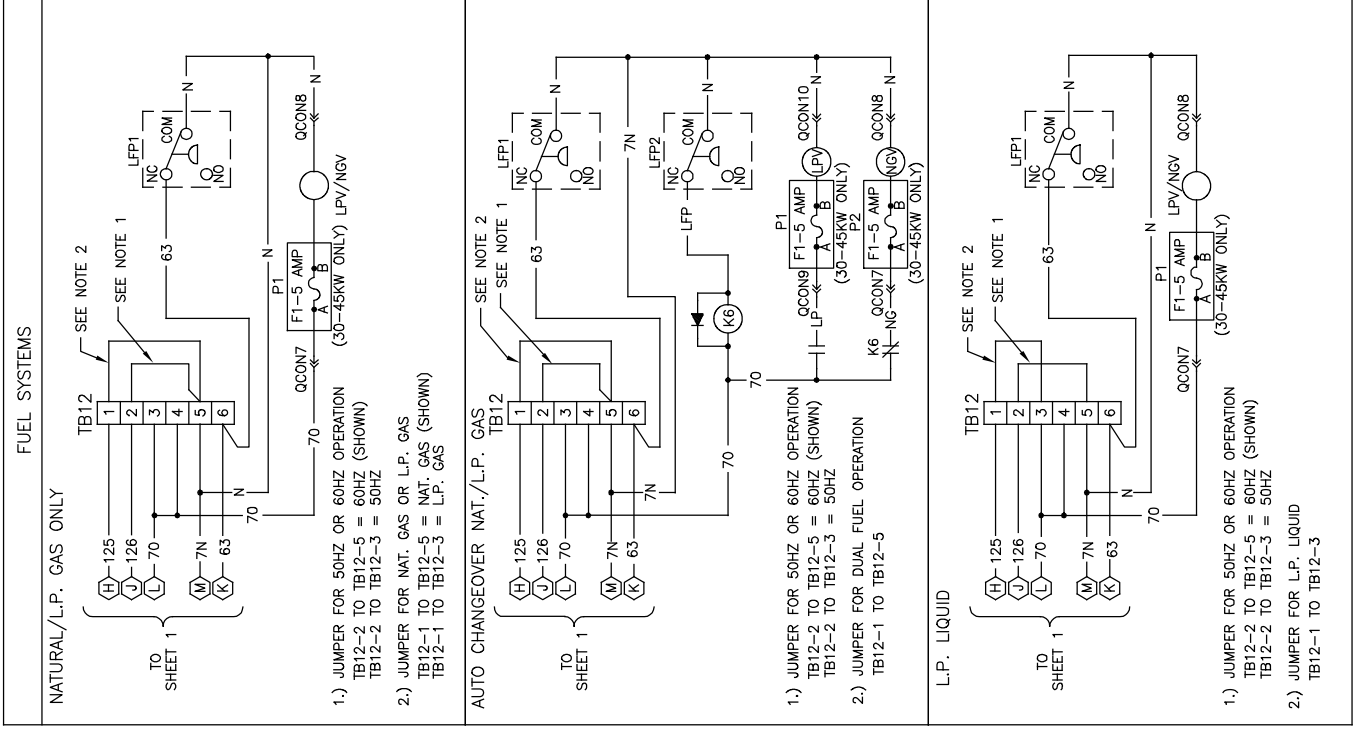
NOTE: FOR GENERATOR CONNECTIONS SEE ADV-5875 THREE PHASE.

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: X.XXX ± .010 SURFACE FINISH X ± .000 FRACTIONS ± DITS		POWER SYSTEMS, KOHLER, VI 53044 U.S.A. THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
KOHLER CO.			
TITLE		DIAGRAM, SCHEMATIC	
APPROVALS		DATE	
DRAWN 5-19-04 JS		5-19-04 JS	
CHECKED 5-25-04 JS		5-25-04 JS	
APPROVED 5-25-04			
		SCALE 1/1/1	CAD NO.
		PLOTTED	HWK. NO.
		ADV-6957	
		C	





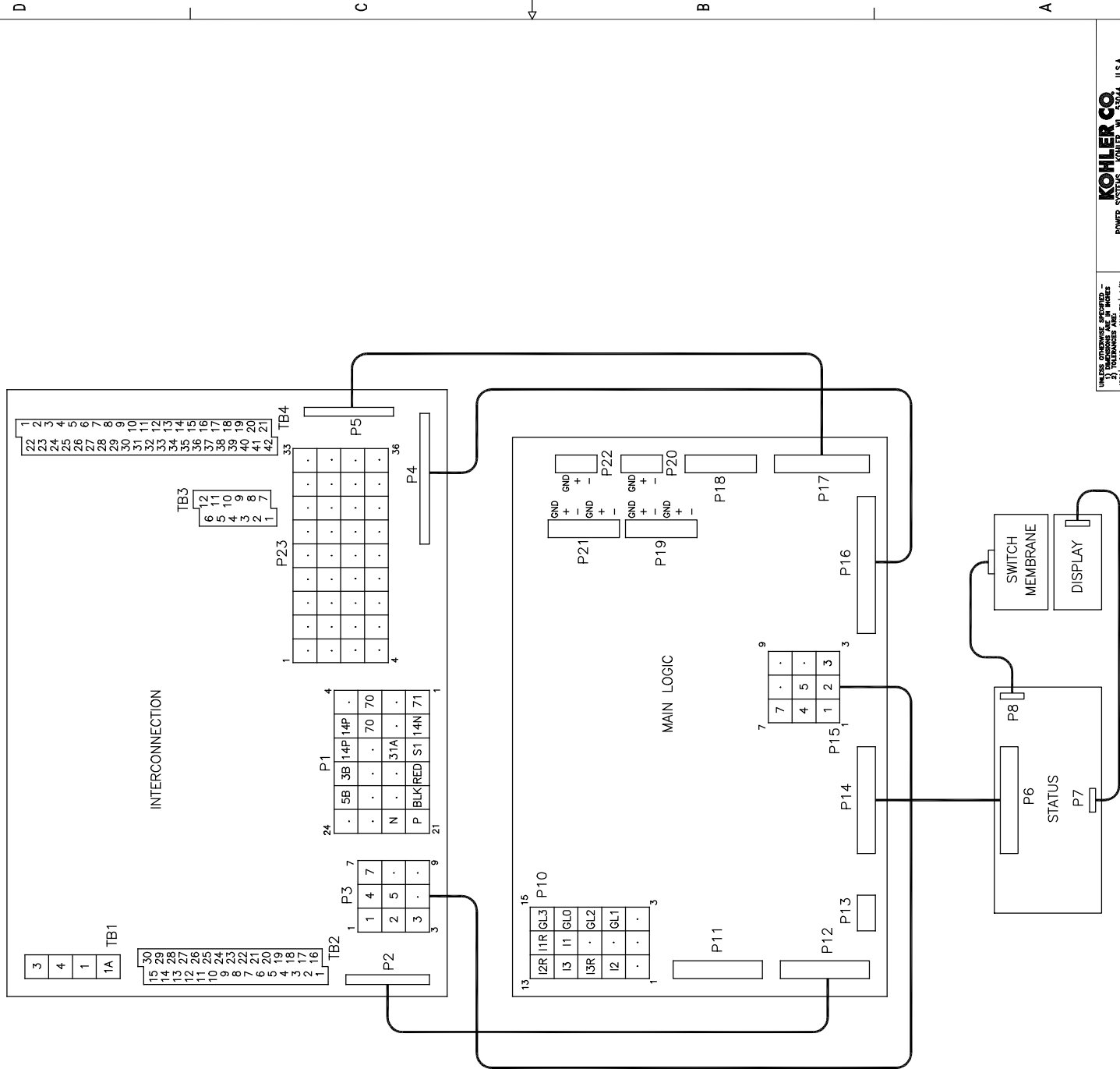
REV	DATE	REVISION	BY
A	11-4-04	NEW DRAWING [73509]	DJS
B	5-4-08	(A.C.-4) PUSES ABOVE (4 PLACES) [44602]	SEM
B	10-14-09	(A.C.-4) LPT1 & LPT2 GEOMETRY REVISED (4 PLACES) TO REFLECT CURRENT SWITCH DESIGN [88038]	DJS



UNLESS OTHERWISE SPECIFIED - DIMENSIONS ARE IN INCHES TOLERANCES ARE: JOES, .010 ± .005 SURFACES, .015 ± .005 SURFACES, .015 ± .005		KOHLER CO. POWER SYSTEMS DIVISION, U.S.A. 10000 W. 10TH AVE., CHICAGO, ILL. 60642 THIS DRAWING, IN PERSH AND RETAIL, IS RENTED TO YOU. PROPERTY MUST NOT BE REPRODUCED OR COPIED FOR ANY OTHER PURPOSE. MOST OF THE USED EQUIPMENT IS AVAILABLE FOR RENT.		ADV-7016 D ₆	
TITLE		DIAGRAM, SCHEMATIC		G ₁	
APPROVALS ±		FRANCHISE ±		SCALE 1/1/1	
DATE		DATE		CAP. WGT. ADV70165.DWG	
DESIGNED DPTS		11-4-04		SHEET 2-2	
CHECKED JAS		11-5-04		PLOTTED	
APPROVED JAS		11-5-04		ADV-7016	

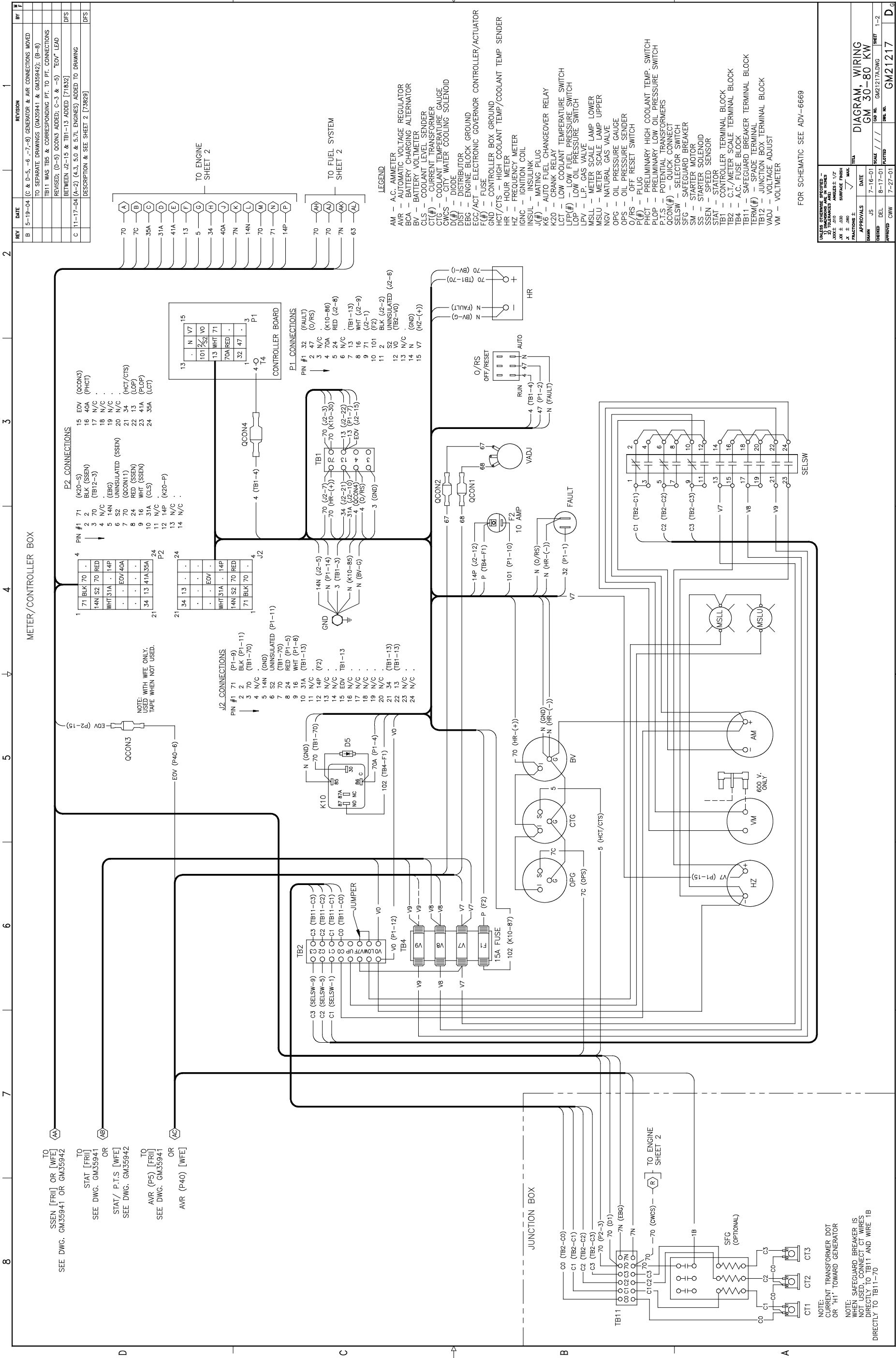
DECISION-MAKER 3+ CONTROLLER
WOODWARD L SERIES GOVERNOR
GM GAS 30-80 KW
W/ SPLIT ACTIVATOR 1 ϕ , 3 ϕ & 600V

REV	DATE	REVISION	BY	DATE
-	11-5-04	NEW DRAWING [73506]	DPS	
A	2-22-08	SEE SHEET 1 [84602]	SEM	
B	10-14-08	SEE SHEET 1 [86036]	DPS	



UNLESS OTHERWISE SPECIFIED - ALL DIMENSIONS ARE IN INCHES () MILLIMETERS (MM)		KOHLER CO. POWER SUPPLY, 240VAC, 50/60 HZ, U.S.A. THIS DRAWING IS THE PROPERTY OF KOHLER CO. AND IS TO BE USED ONLY IN CONNECTION WITH THE ORDER FROM KOHLER CO. WORK. ALL RIGHTS RESERVED.		DIAGRAM, SCHEMATIC GM 3070-80 KW		SHEET 2-2	
DATE 11-5-04 DESIGNED JCS APPROVED JCS		DATE 11-5-04 DESIGNED JCS APPROVED JCS		SCALE 1/11		REV. NO. ADV-7017	
TITLES APPROVALS DATE 11-5-04 DESIGNED JCS APPROVED JCS		TITLES APPROVALS DATE 11-5-04 DESIGNED JCS APPROVED JCS		TITLES APPROVALS DATE 11-5-04 DESIGNED JCS APPROVED JCS		TITLES APPROVALS DATE 11-5-04 DESIGNED JCS APPROVED JCS	

PRECISION-MAKER 550 CONTROLLER
WOODWARD L SERIES GOVERNOR
GM GAS 30-80 KW
SPLIT ACTIVATOR 1Ø, 3Ø & 600V

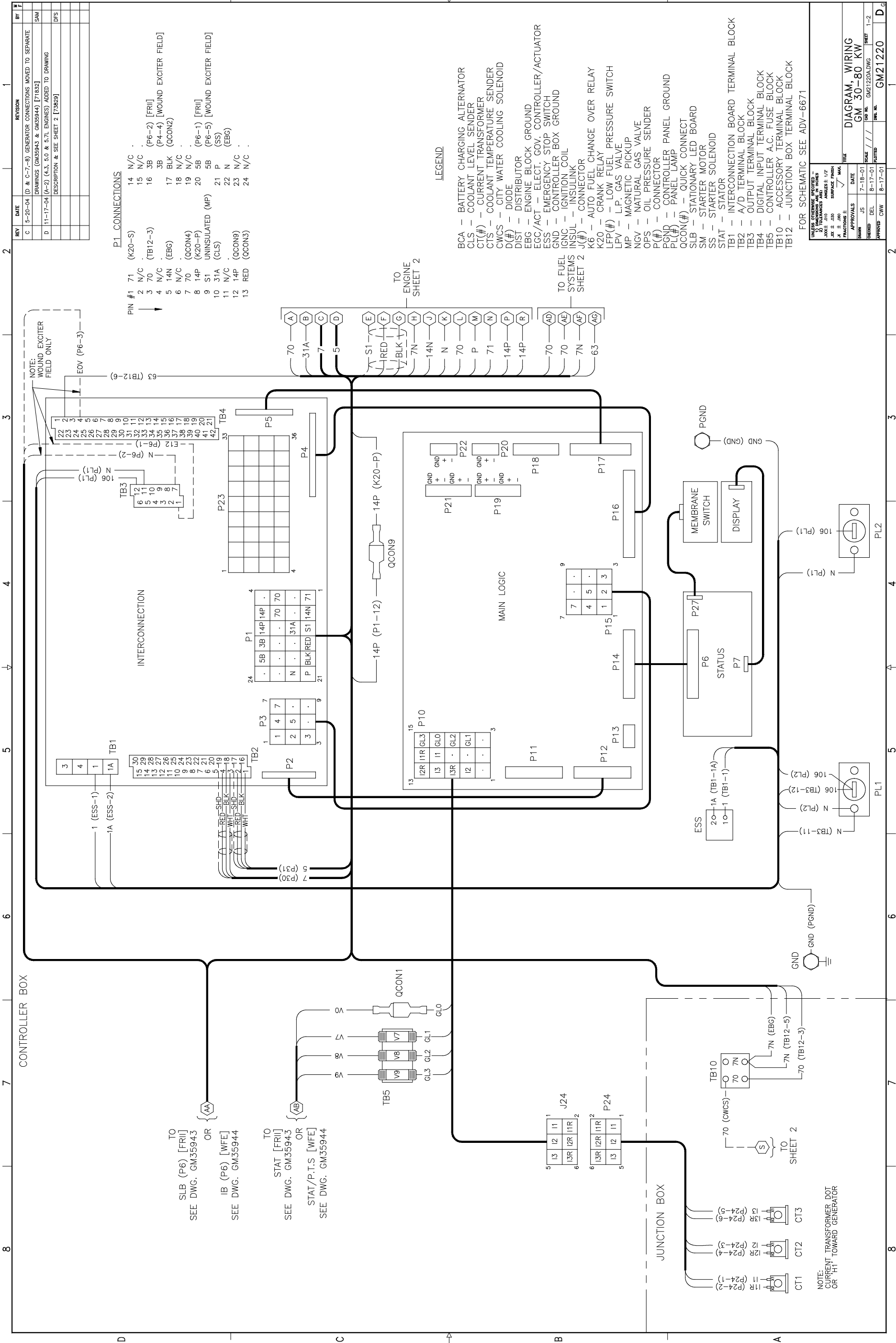


NOTE: CURRENT TRANSFORMER DOT OR "H1" TOWARD GENERATOR.

NOTE: WHEN SAFEGUARD BREAKER IS NOT USED, CONNECT CT WIRES DIRECTLY TO TB11 AND WIRE 1B DIRECTLY TO TB11-70.

UNLESS OTHERWISE SPECIFIED - DIMENSIONS ARE IN INCHES (1) TOLERANCES XX ± .030 SURFACE FINISH FRACTIONS ±				DATE			
APPROVALS	DATE	DATE	DATE	DATE	DATE	DATE	DATE
DRAWN	JS	7-16-01	7-16-01	7-16-01	7-16-01	7-16-01	7-16-01
CHECKED	DEL	8-17-01	8-17-01	8-17-01	8-17-01	8-17-01	8-17-01
APPROVED	CWW	7-27-01	7-27-01	7-27-01	7-27-01	7-27-01	7-27-01

DIAGRAM, WIRING			
GM 30-80 KW			
SHEET 1-2			
GM NO. GM21217/DWG			
REV. NO. GM21217			
D			

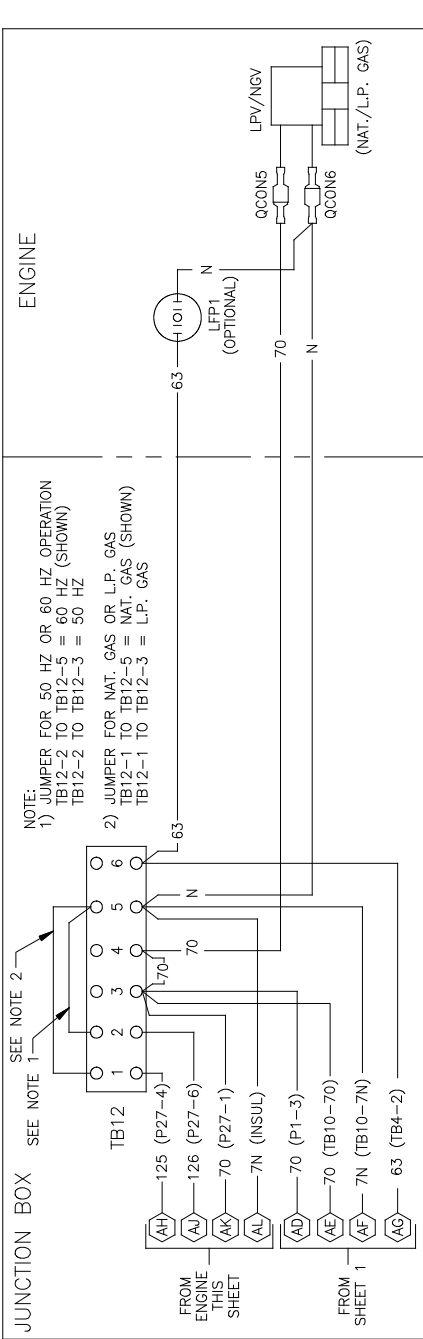


FUEL SYSTEMS

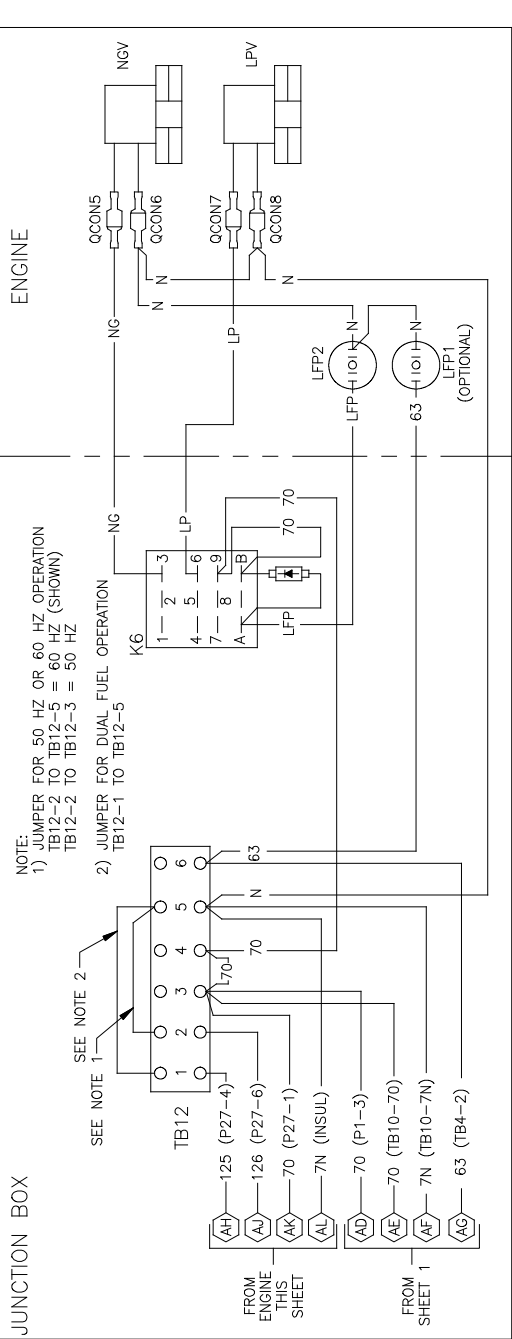
FUEL SYSTEMS

REV	DATE	REVISION	BY	CHK
C	5-20-04	SEE SHEET 1 [71832]	SAH	
D	11-17-04	(A-2) (A-3) (A-5) & 5.7L ENGINES ADDED TO DRAWING DESCRIPTION & SEE SHEET 1 [73829]	DPS	

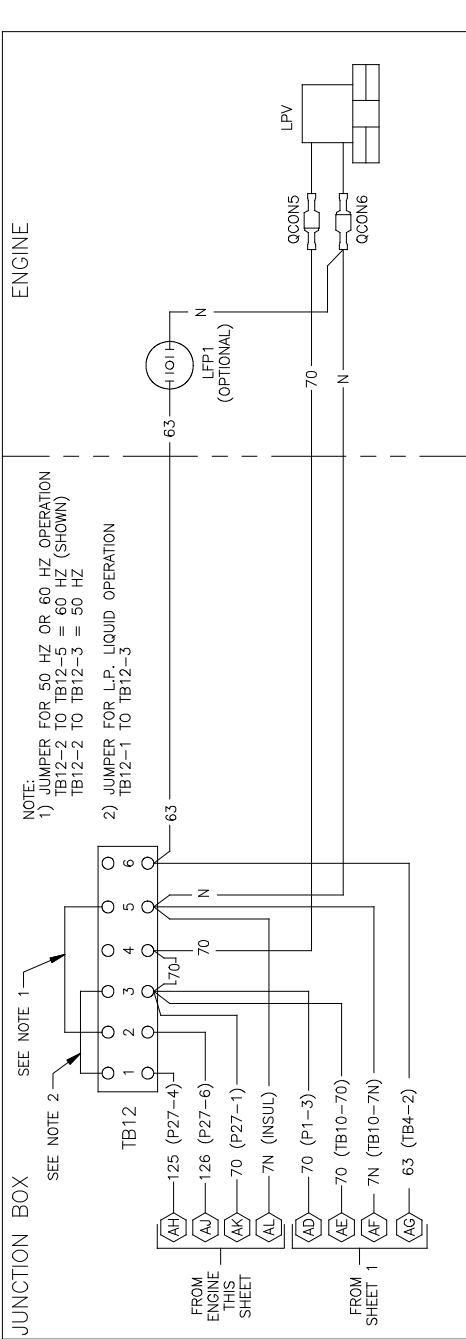
NATURAL/L.P. GAS ONLY



AUTO CHANGEOVER NAT./L.P. GAS



L.P. GAS LIQUID WITHDRAWAL

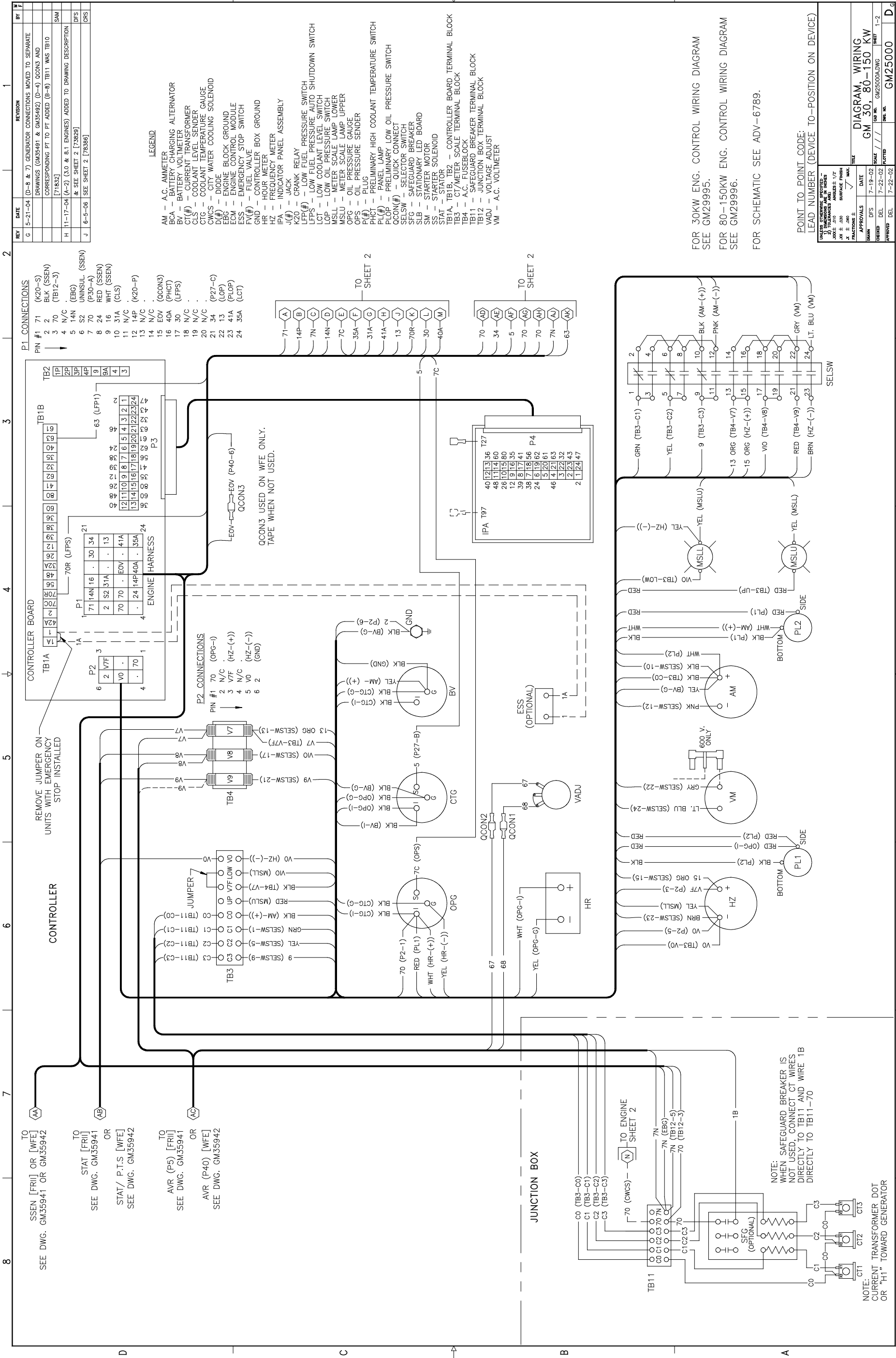


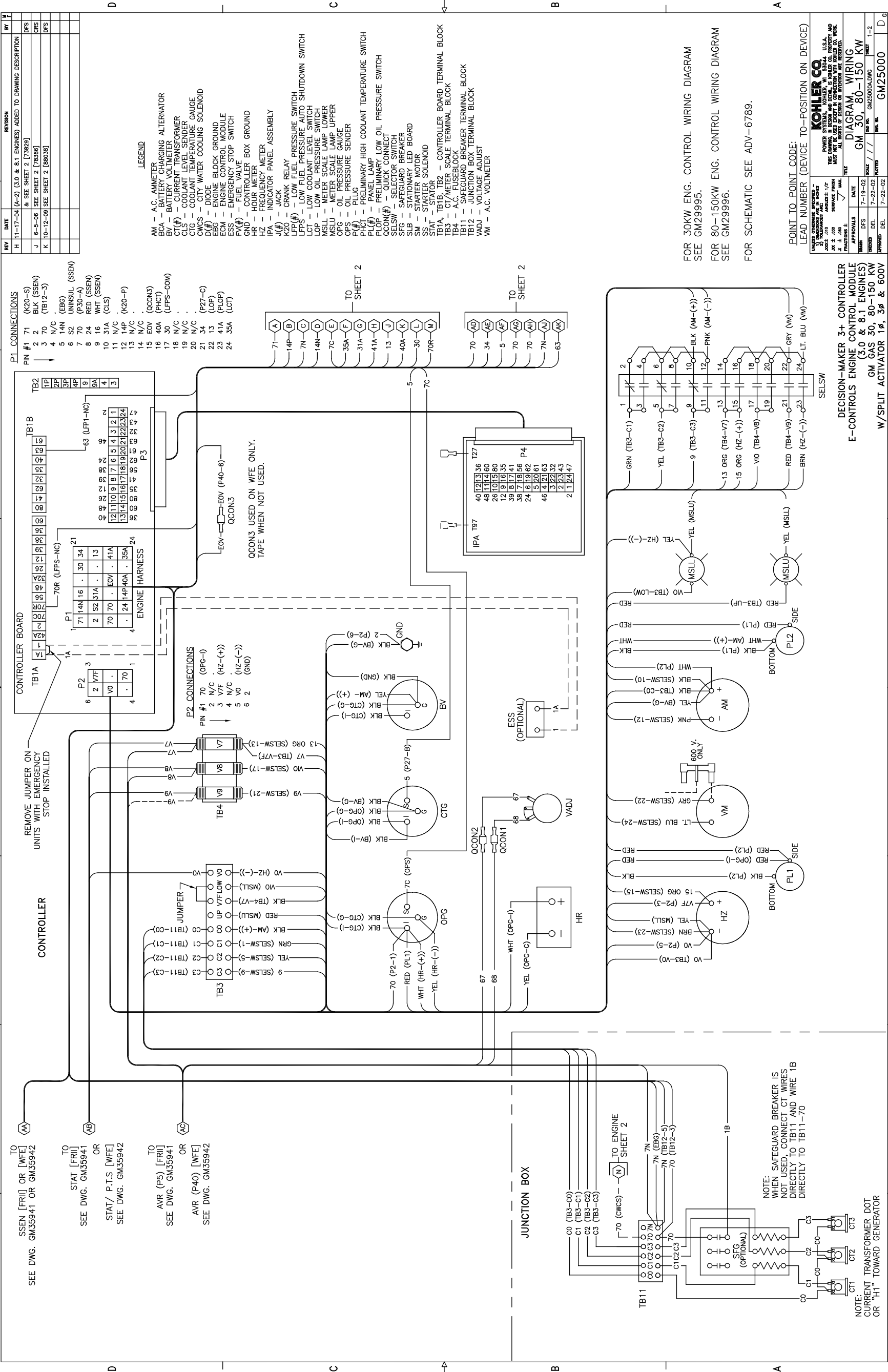
UNLESS OTHERWISE SPECIFIED - DIMENSIONS ARE IN INCHES FRACTIONS ±				FILE			
XREF ± .010 XREF ± .030 SURFACE FINISH				DATE			
APPROVALS				DATE			
DRAWN				7-17-01			
CHECKED				DEL			
APPROVED				8-17-01			
GM NO.				GM21220			
SHEET				2-2			

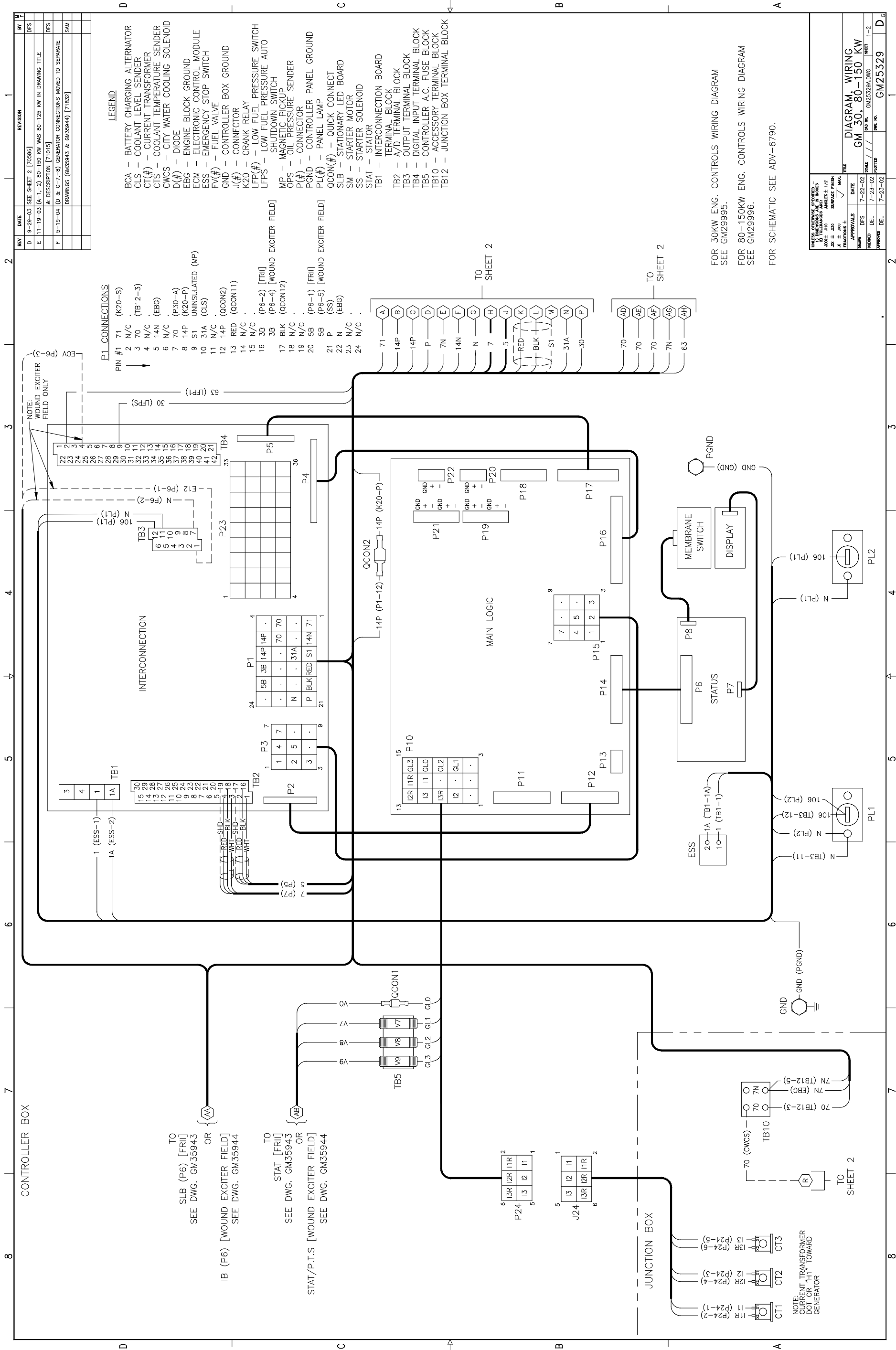
DIAGRAM, WIRING

GM 30-80 KW

GM21220





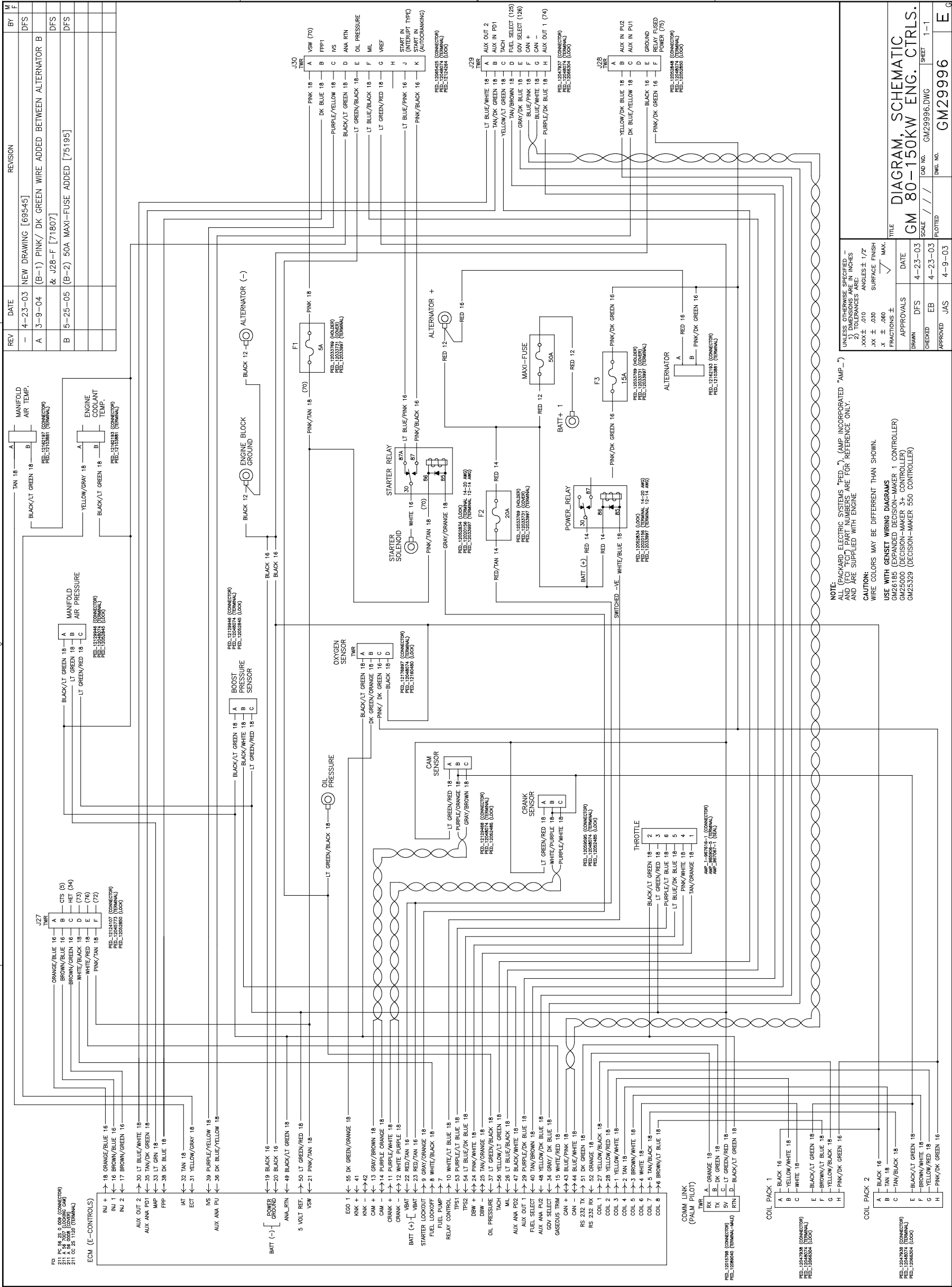


4

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1



4

3

2

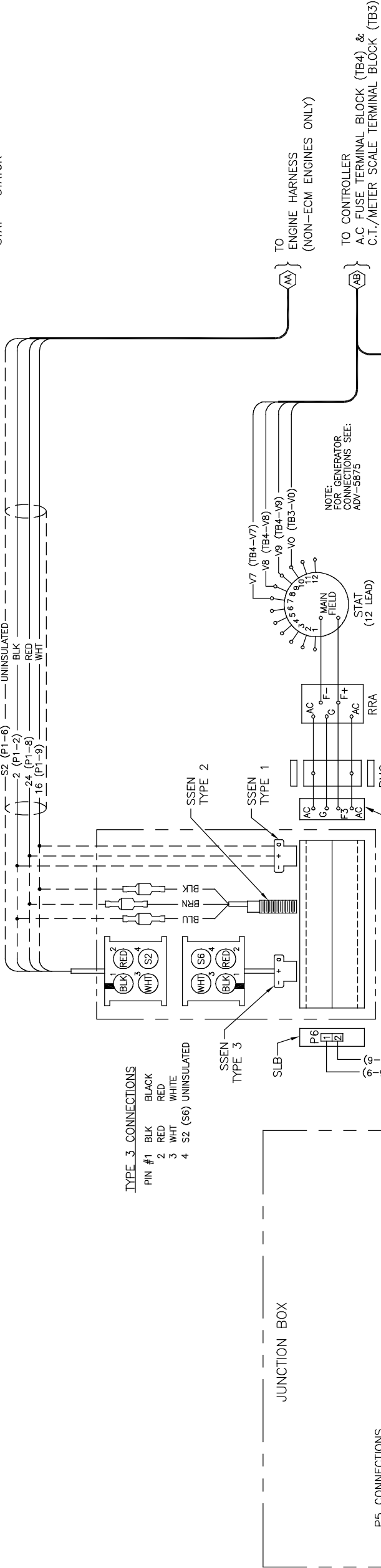
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REV	DATE	REVISION	BY
C	11-30-05	(B-7) AVR (P5) VIEW CORRECTED [76420]	CRS
D	6-29-06	(C-2) 'NON-ECM ONLY' NOTE ADDED [78676]	CRS
E	9-25-08	(A-2) 'NON-DECISION MAKER' WAS 'DECISION-MAKER' [79376]	CRS
F	4-25-08	(C,D-5,6) SSEN TYPE 3 ADDED; SDMO & SPECTRUM VOIDED AND REMOVED [84202]	SEM
G	11-19-08	(A-3) PT CONNECTIONS (6 LEAD 600 VOLT) DETAIL ADDED [86648]	CRS

LEGEND

- AVR – AUTOMATIC VOLTAGE REGULATOR
P(#) – PLUG
PMG – PERMANENT MAGNET GENERATOR
RRA – ROTATING RECTIFIER ASSEMBLY
SLB – STATIONARY LIGHT EMITTING DIODE BOARD
SSEN – SPEED SENSOR
STAT – STATOR

GENERATOR

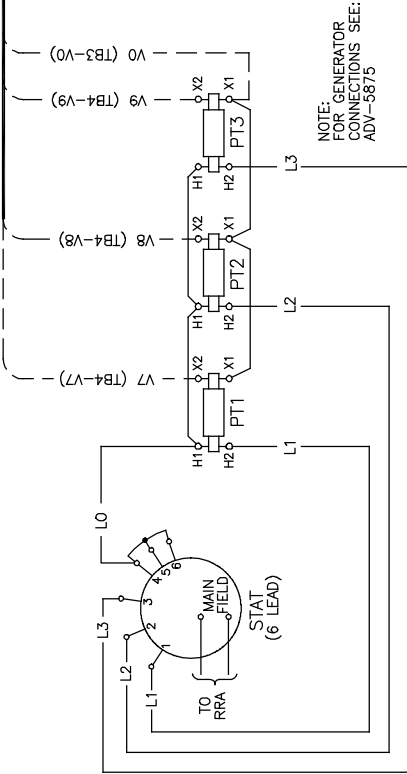


P5 CONNECTIONS

PIN #1	68	(QCON1)
2	7N	(TB11-7N)
3	67	(QCON2)
4	V8	(TB4-V8)
5	N/C	
6	3B	(P6-2)
7	V9	(TB4-V9) (3Ø REG. ONLY)
8	N/C	
9	5B	(P6-1)
10	V7	(TB4-V7)
11	1B	(SFG)
12	N/C	

AVR	P5
67	7N
3B	V8
5B	V9
1B	V7

P.T. CONNECTIONS (6 LEAD-600 VOLT ONLY)



FOR SCHEMATIC SEE ADV-6955.

UNLESS OTHERWISE SPECIFIED - 3) TOLERANCES ARE IN INCHES FRACTIONS ± DECIMAL ± .000 SURFACE FINISH ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED		TITLE DIAGRAM, WIRING	
APPROVALS	DATE	SCALE	SHEET
DESIGNED	4-30-04	1-1	
CHECKED	5-6-04		
APPROVED	5-6-04		

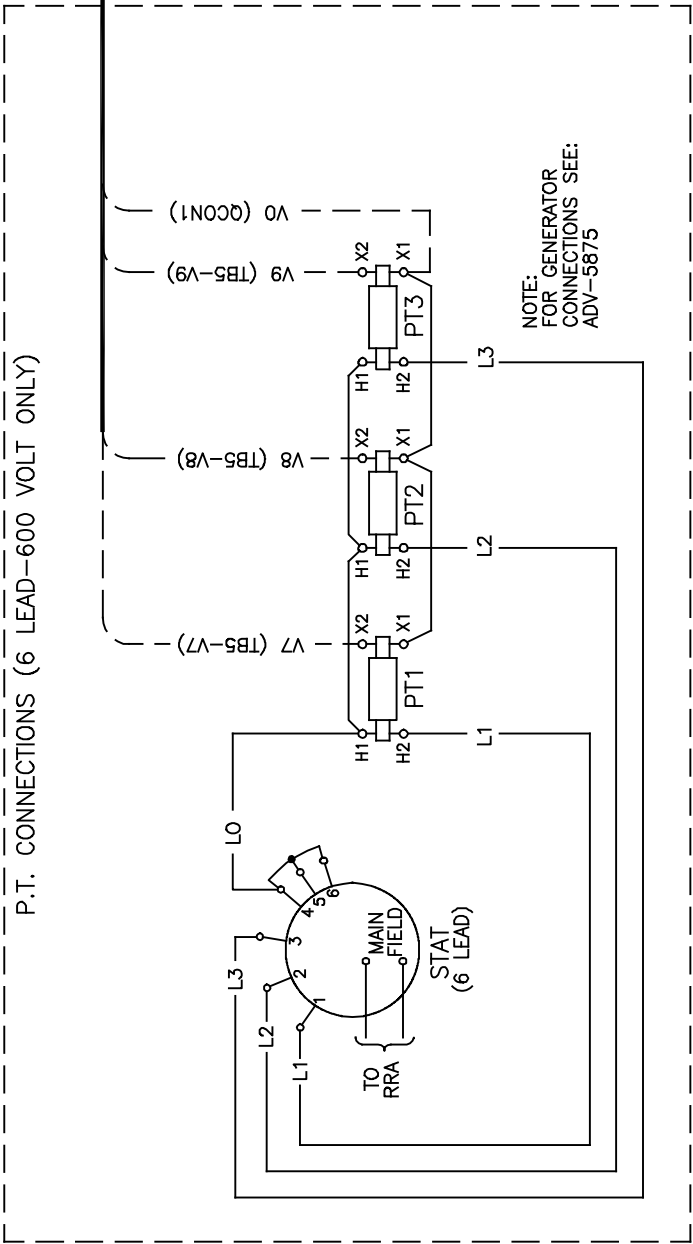
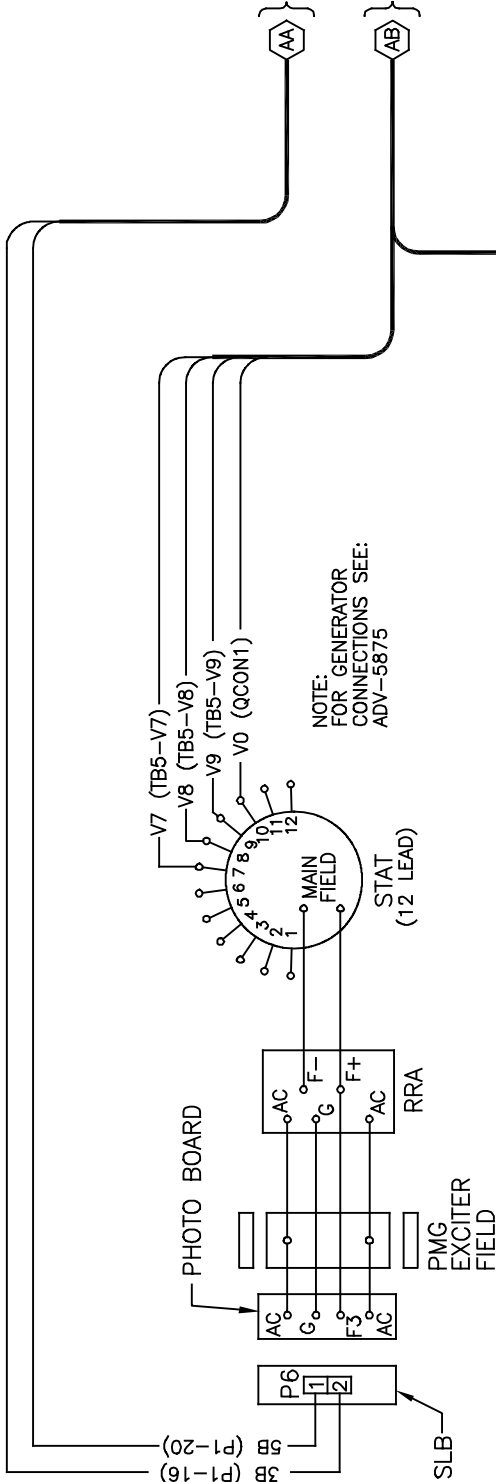
KOHLER CO. U.S.A.
POWER SYSTEMS GROUP
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ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.
ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.

FRIDAY		NON-DECISION MAKER 550 CONTROLLER		1	
GM35941				D	

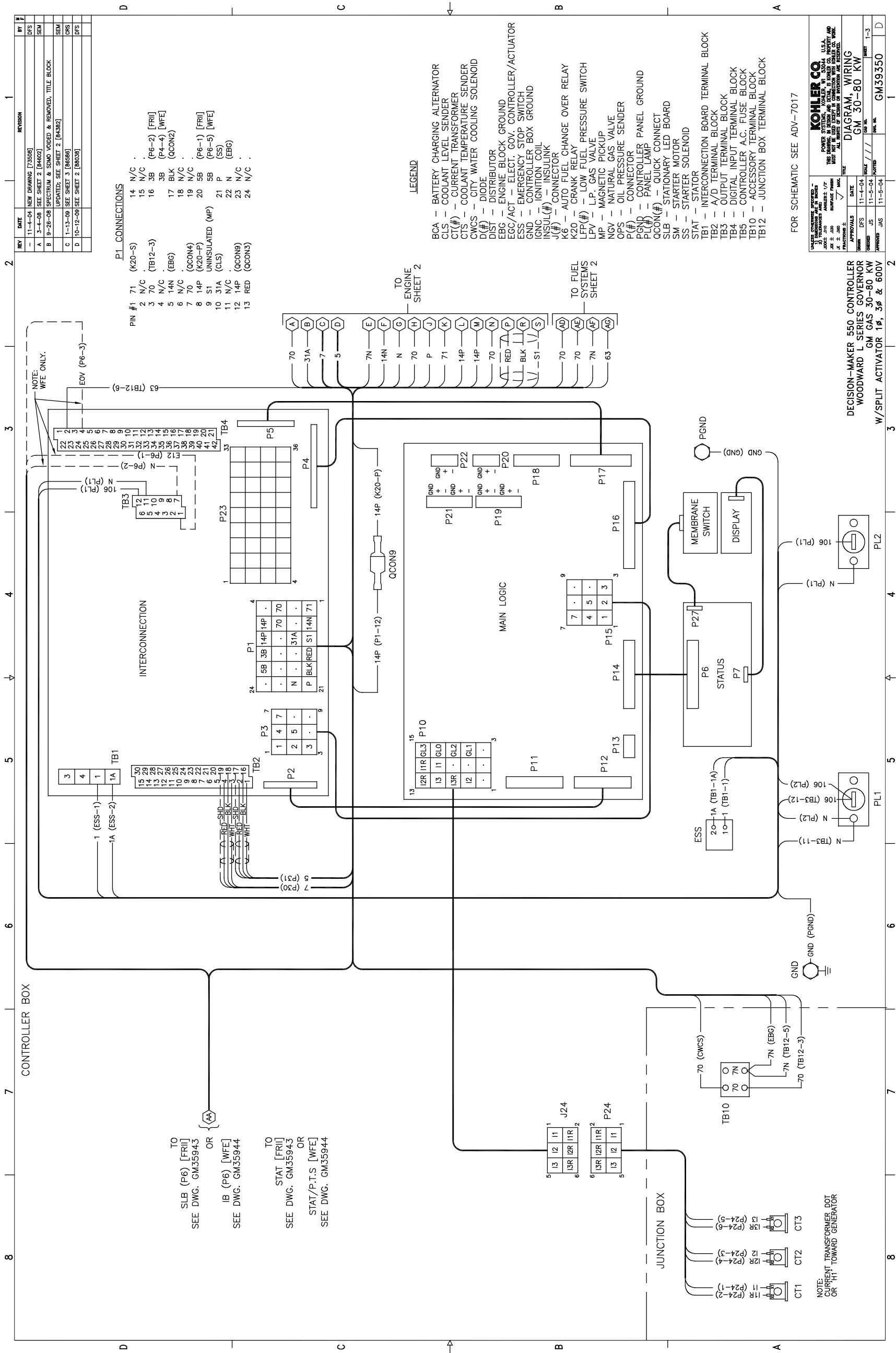
REV	DATE	REVISION	BY	CHK
-	4-30-04	NEW DRAWING [71832]		
A	12-10-04	(A-1) "FOR SCHEMATIC" NOTE ADDED [73930]	DFS	
B	9-25-06	(B-3) ADV-5857 REMOVED [79376]	CRS	
C	11-19-08	(A-3) PT CONNECTIONS (6 LEAD 600 VOLT) DETAIL ADDED [86848]	CRS	
D	8-3-11	(A-2) FRII & DECISION-MAKER 550 NOTE REMOVED [92098]	CRS	

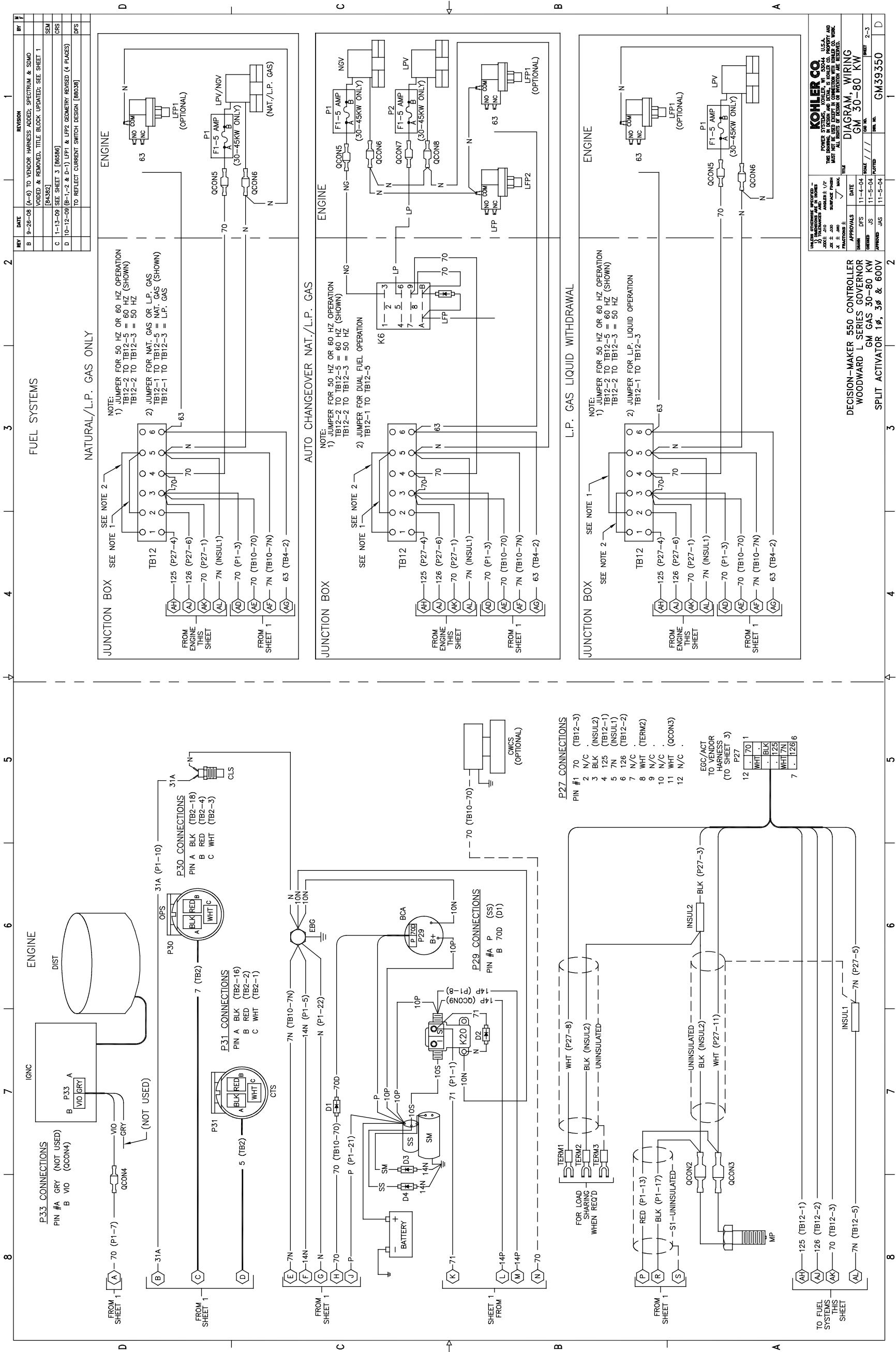
LEGEND

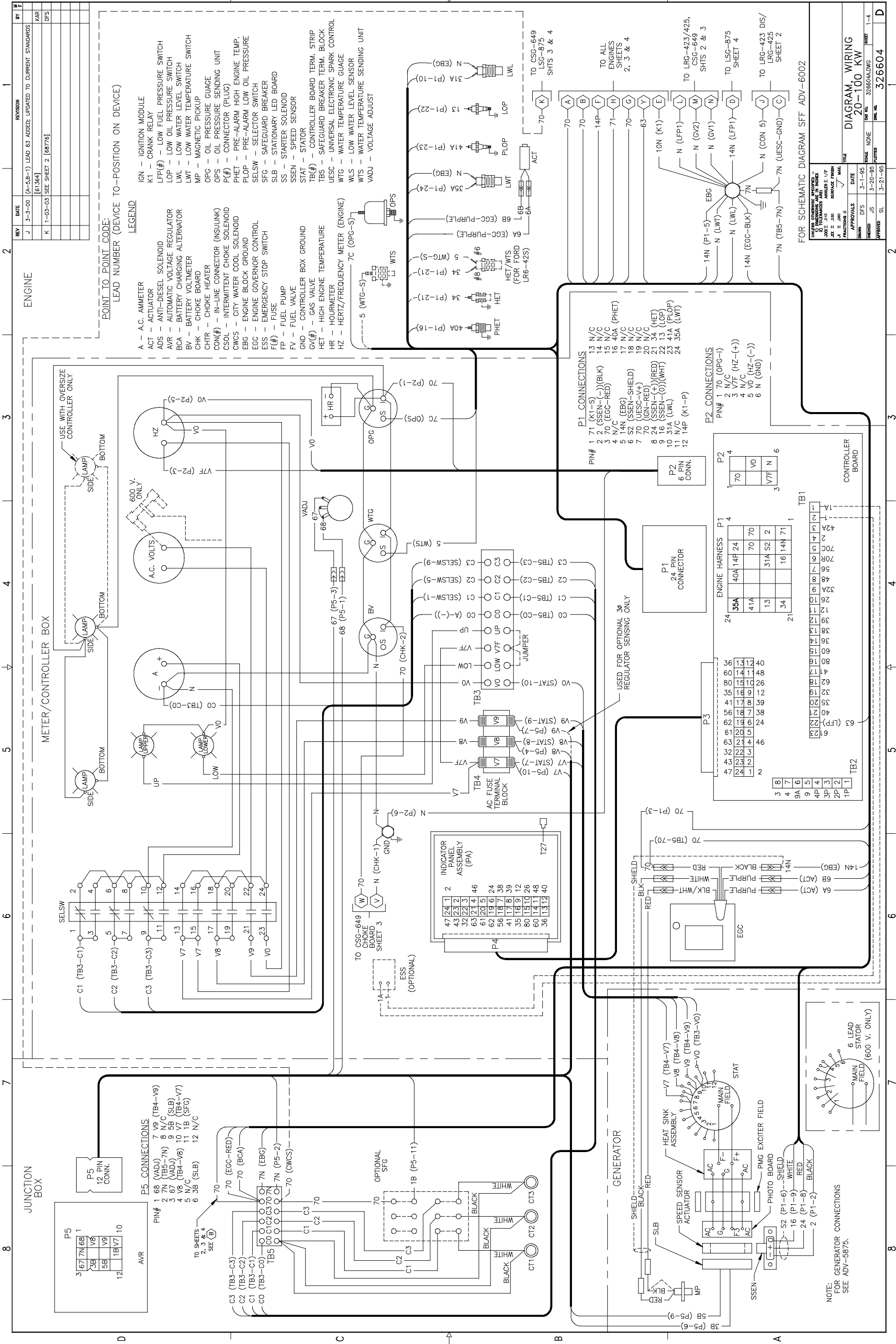
- P(#)- PLUG
- PMG - PERMANENT MAGNET GENERATOR
- RRA - ROTATING RECTIFIER ASSEMBLY
- SLB - STATIONARY LIGHT EMITTING DIODE BOARD
- STAT - STATOR



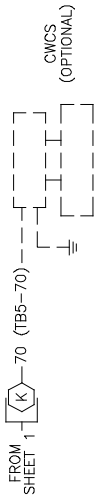
UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: X .000 ± .000 SURFACE FINISH FRACTIONS ± 1/32" MAX		POWER SYSTEMS, KOHLER, VI 53044 U.S.A. THIS DRAWING IN DESIGN AND DETAIL IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS		TITLE	
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CHECKED	JS	DATE	5-8-04
APPROVED		SCALE	1-1
		DWG. NO.	GM35943



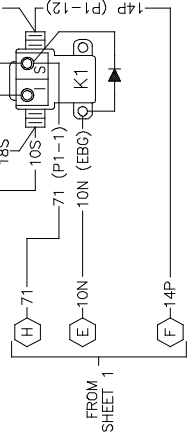
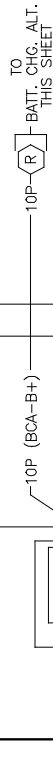
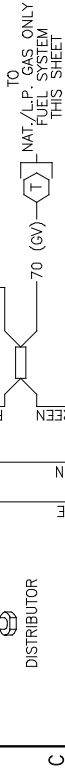




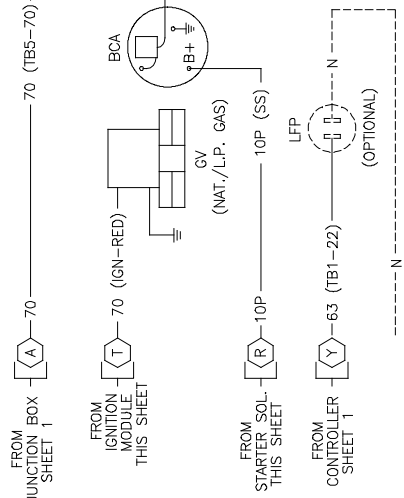
ENGINE



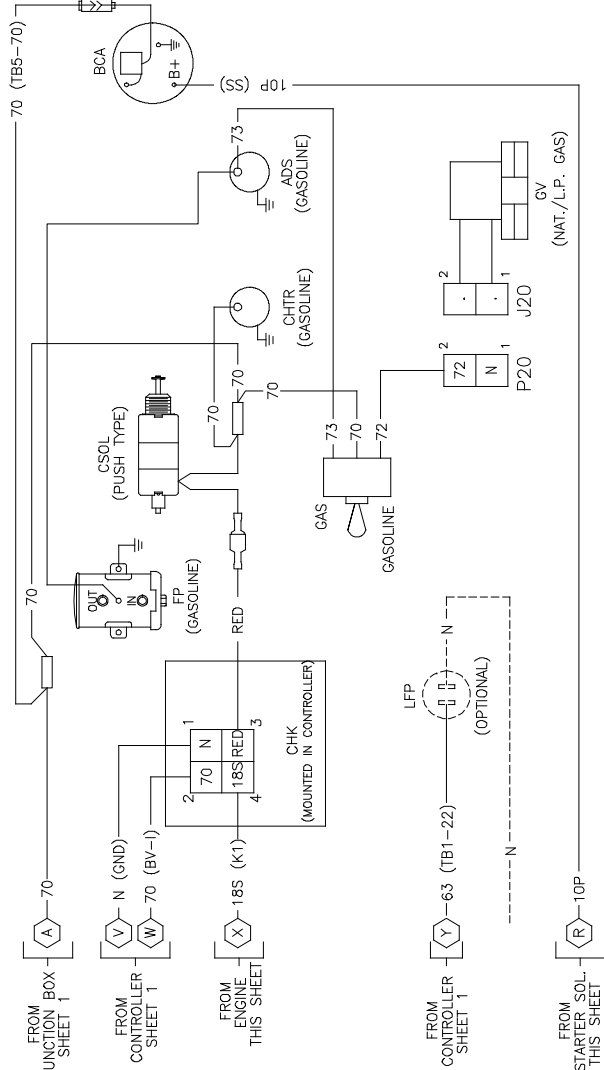
NOTE:
WIRE COLORS REFER
TO MODULE AND
DISTRIBUTOR
PIGTAILS ONLY.



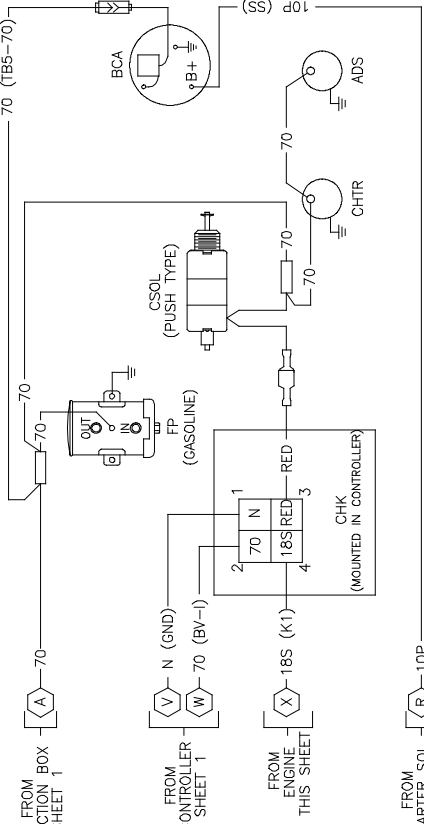
FUEL SYSTEMS



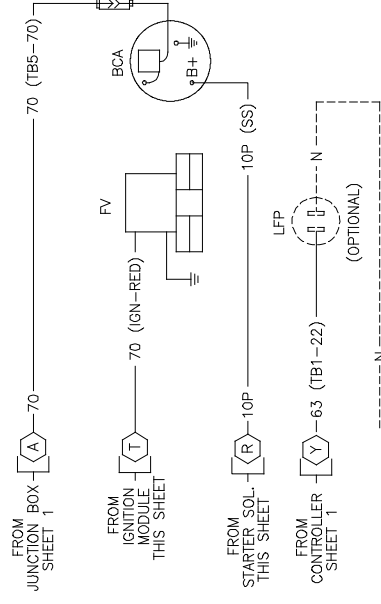
NATURAL/L.P. GAS ONLY



GASOLINE ONLY



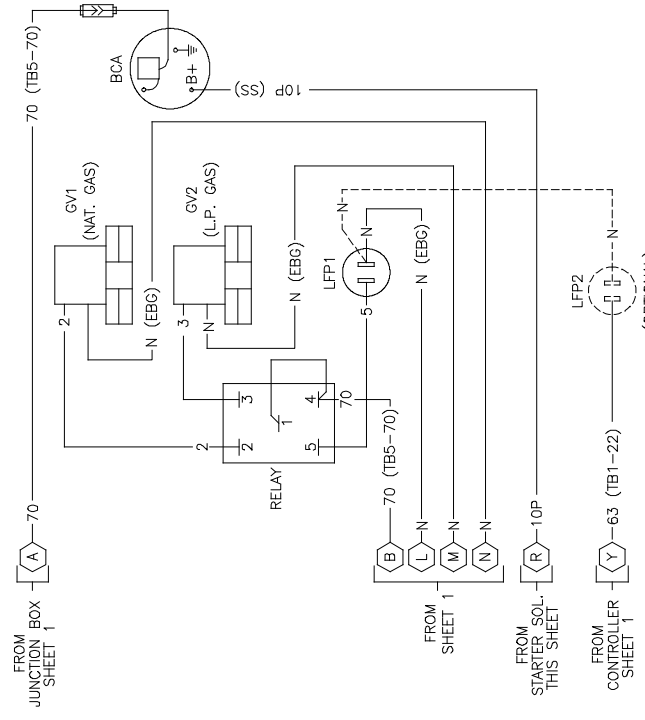
MANUAL CHANGEOVER VAPOR GAS/GASOLINE



L.P. GAS LIQUID WITHDRAWAL

CSC-649

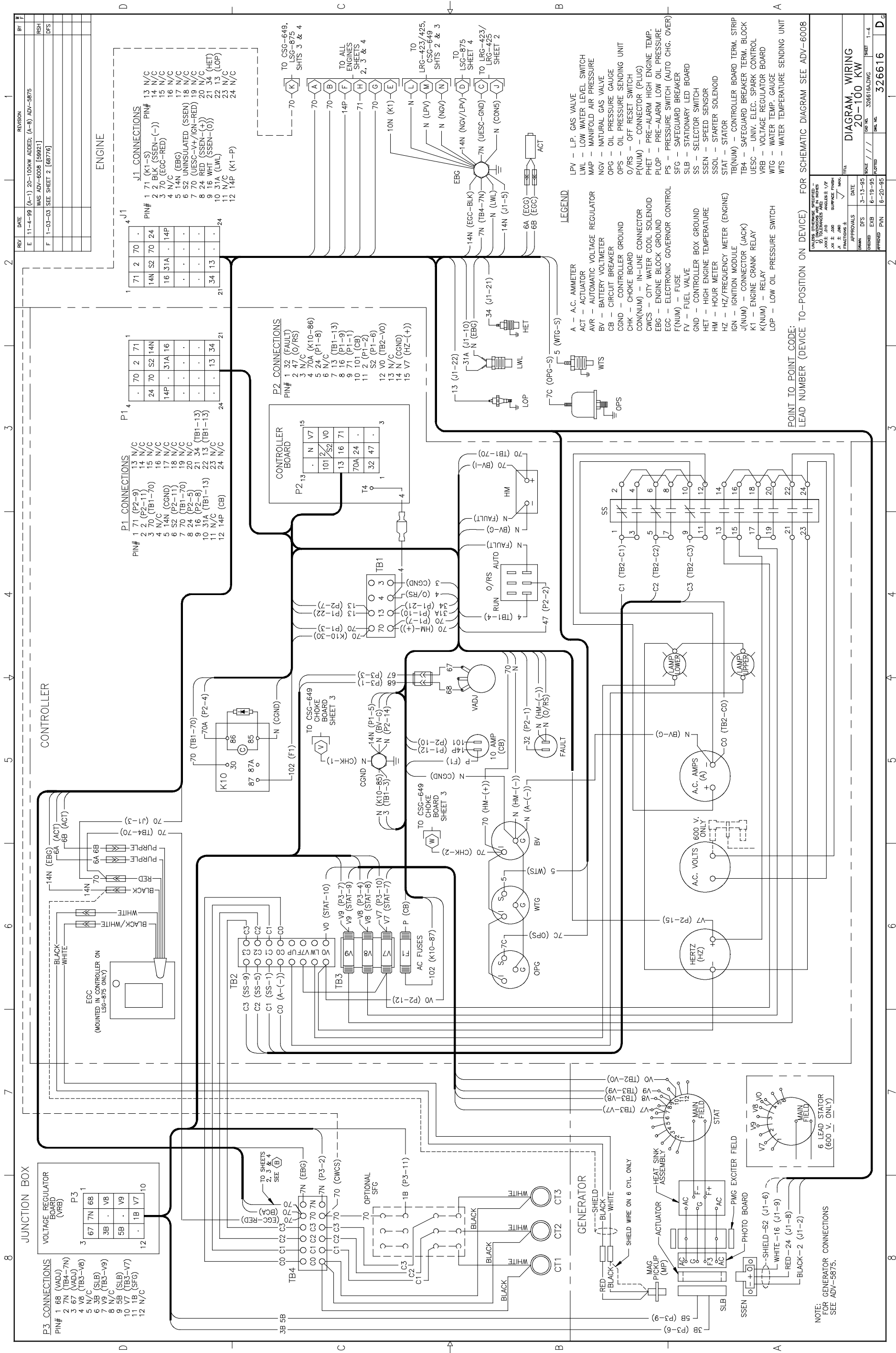
AUTO CHANGEOVER NAT./L.P. GAS

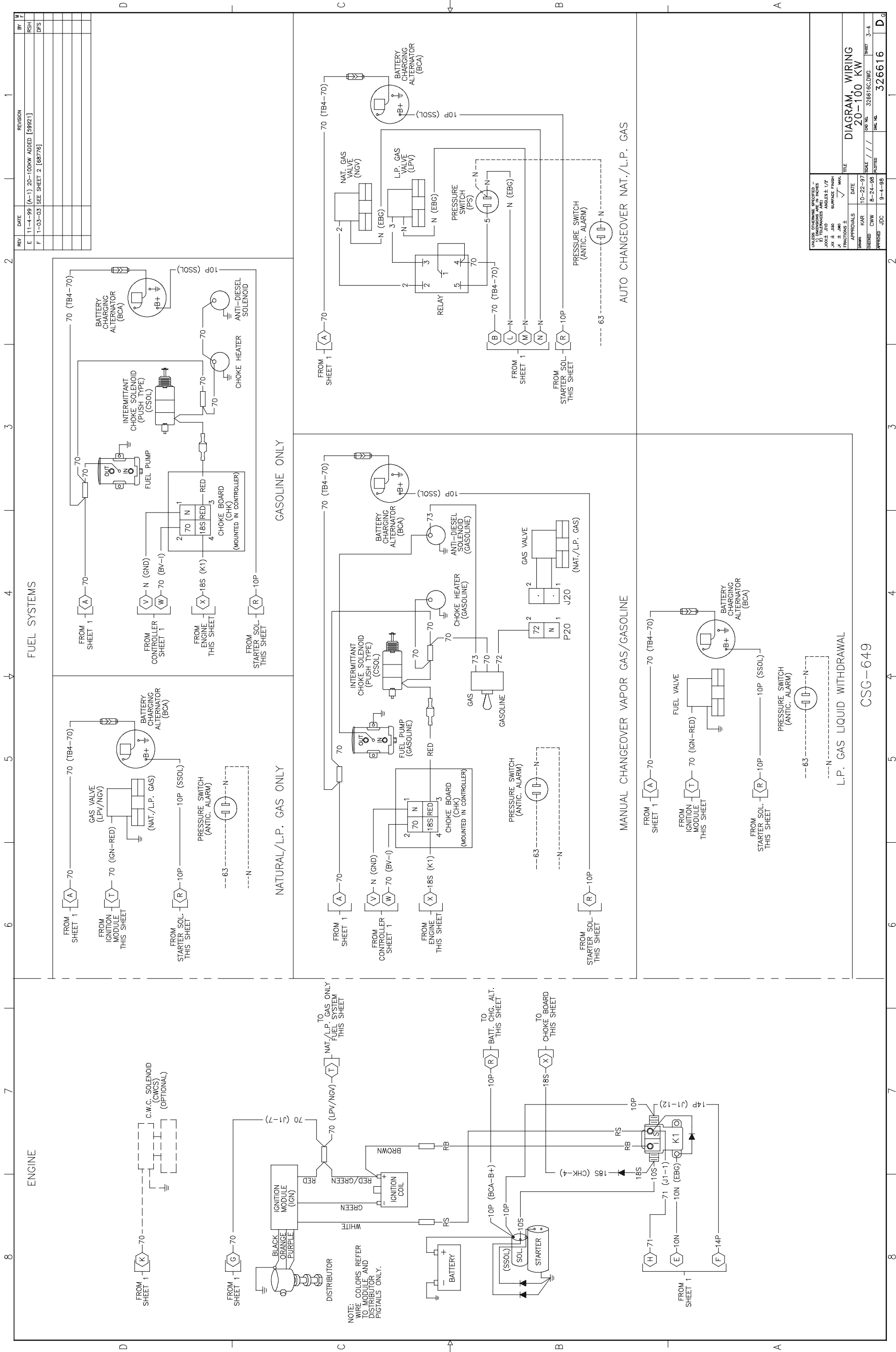


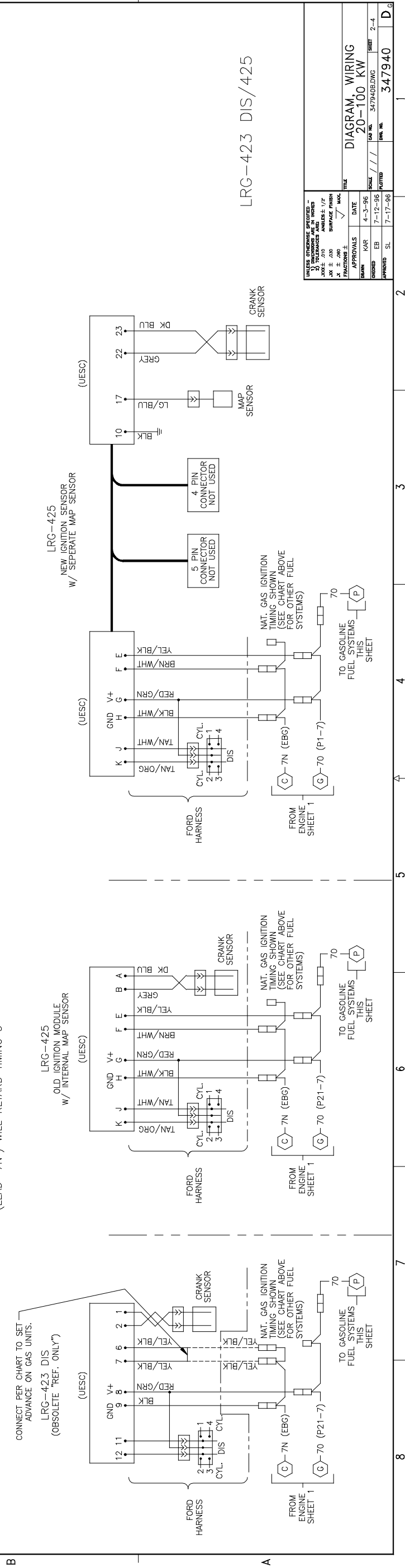
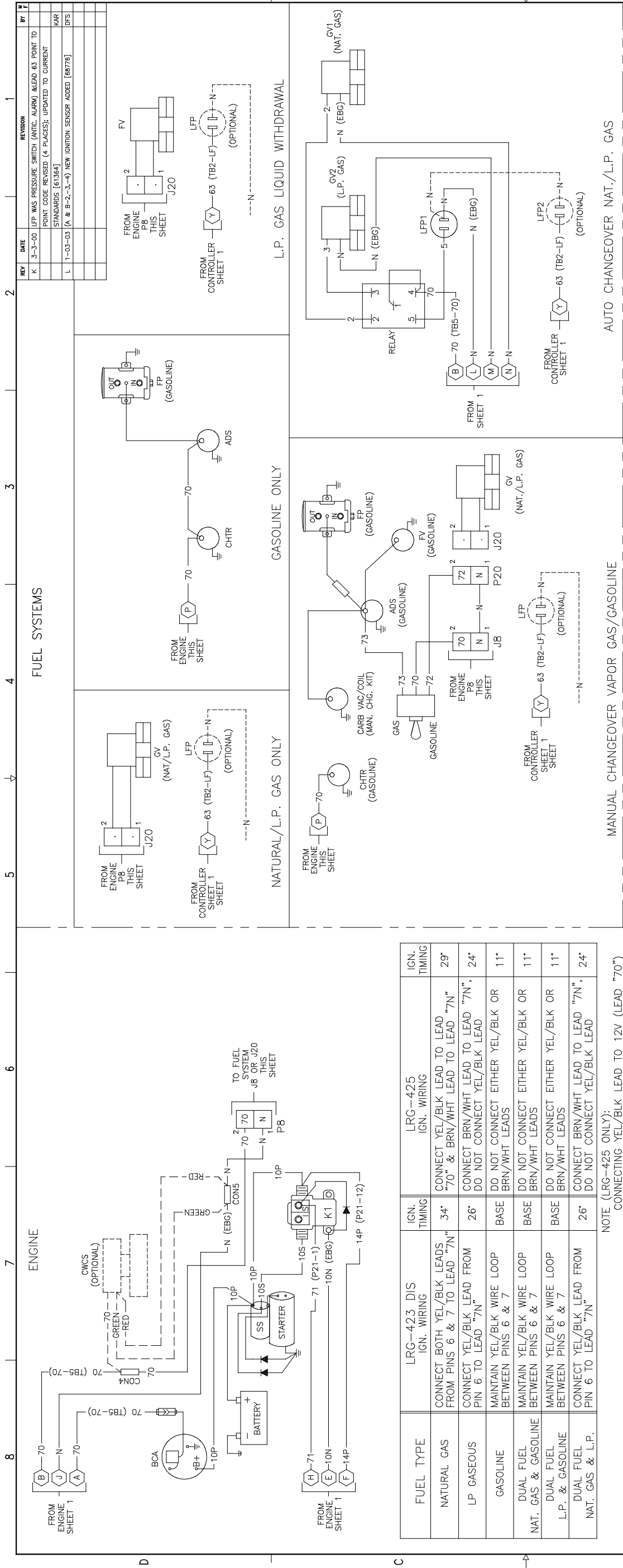
UNLESS OTHERWISE SPECIFIED -	
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DIAGRAM, WIRING
20-100 KW

REV	DATE	REVISION	BY
1	3-3-00	LFP WAS PRESSURE SWITCH (ANTIC. ALARM) & LEAD 63 POINT TO POINT CODE REVISED (4 PLACES); UPDATED TO CURRENT STANDARDS [61364]	KAR
2	1-03-03	SEE SHEET 2 [68776]	DFS
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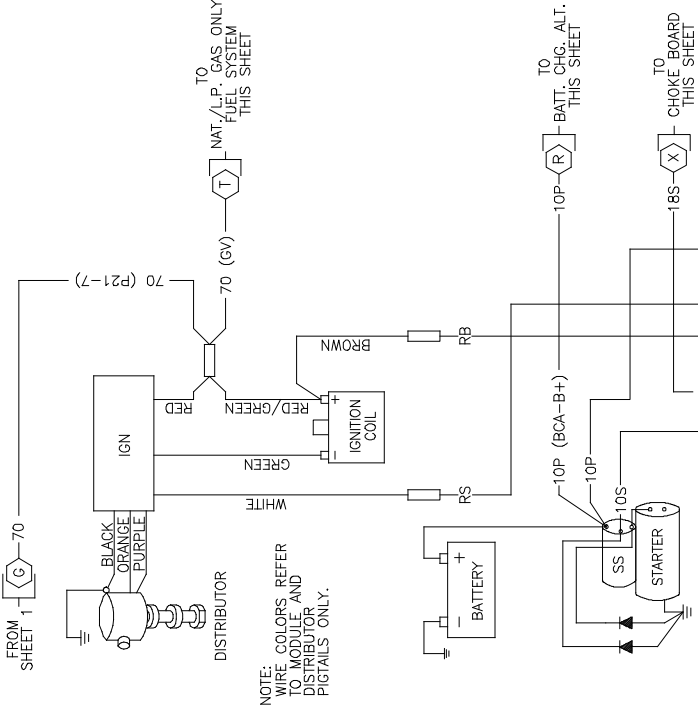
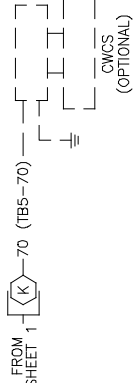




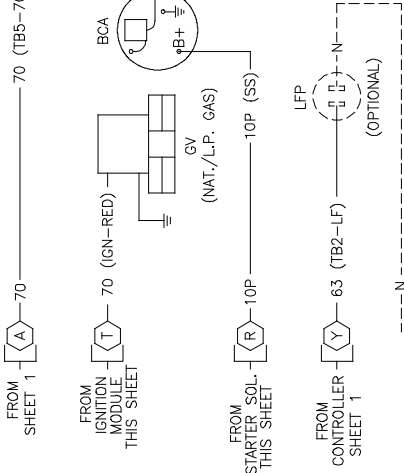
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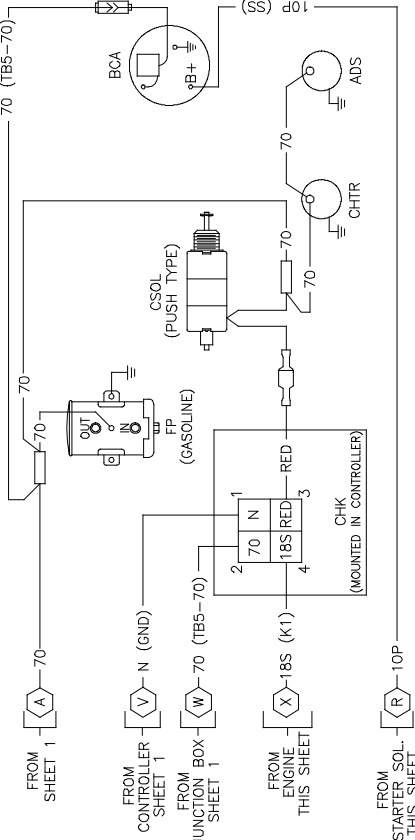
REV	DATE	REVISION	BY
K	3-3-00	LFP WAS PRESSURE SWITCH (ANTIC. ALARM) & LEAD 63 POINT TO POINT CODE REVISED (4 PLACES); UPDATED TO CURRENT STANDARDS [61364]	KAR
L	1-03-03	SEE SHEET 2 [68776]	DFS



NOTE: WIRE COLORS REFER TO DISTRIBUTOR AND DIGITALS ONLY.

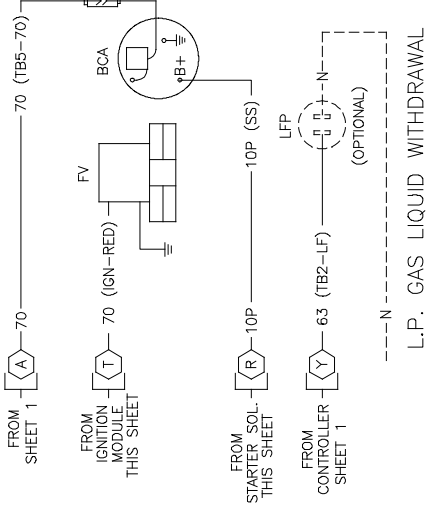


NATURAL/L.P. GAS ONLY



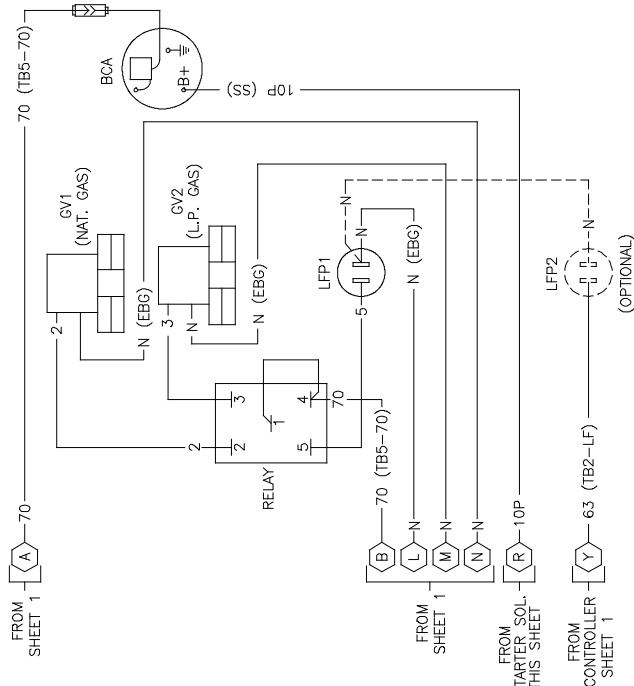
GASOLINE ONLY

MANUAL CHANGEOVER VAPOR GAS/GASOLINE



CSG-649

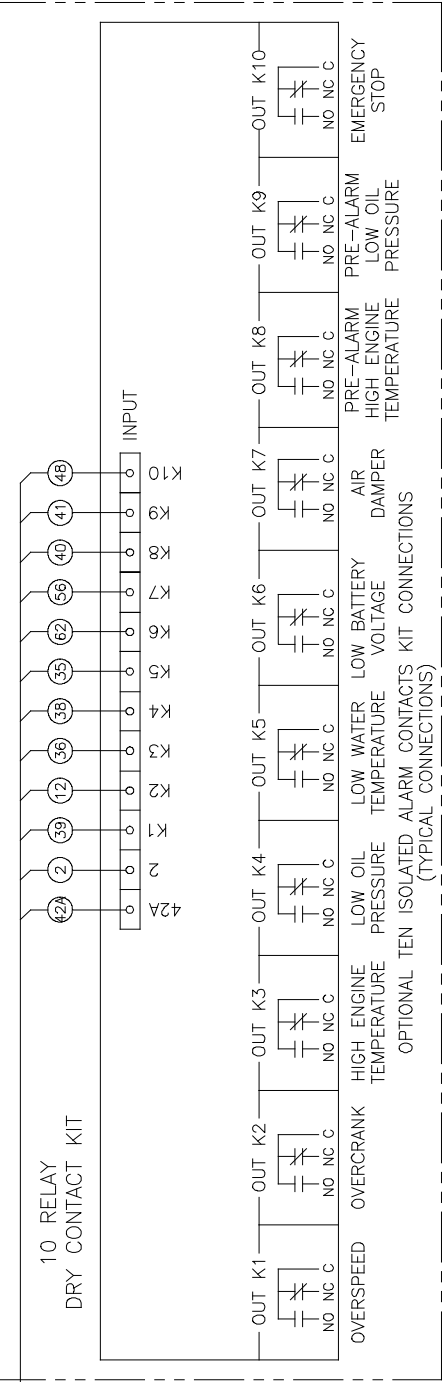
L.P. GAS LIQUID WITHDRAWAL



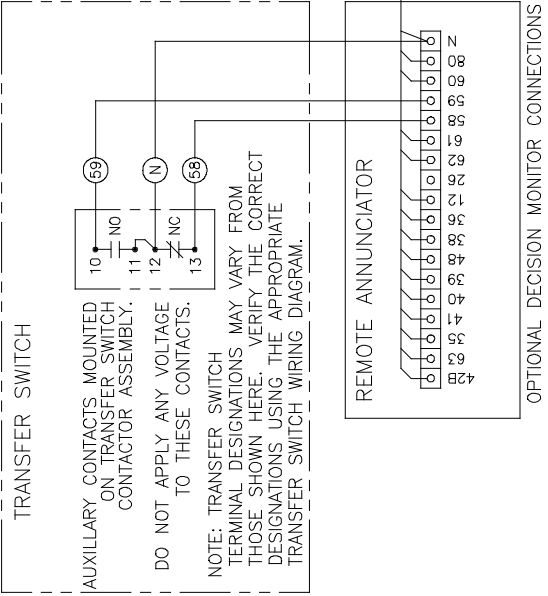
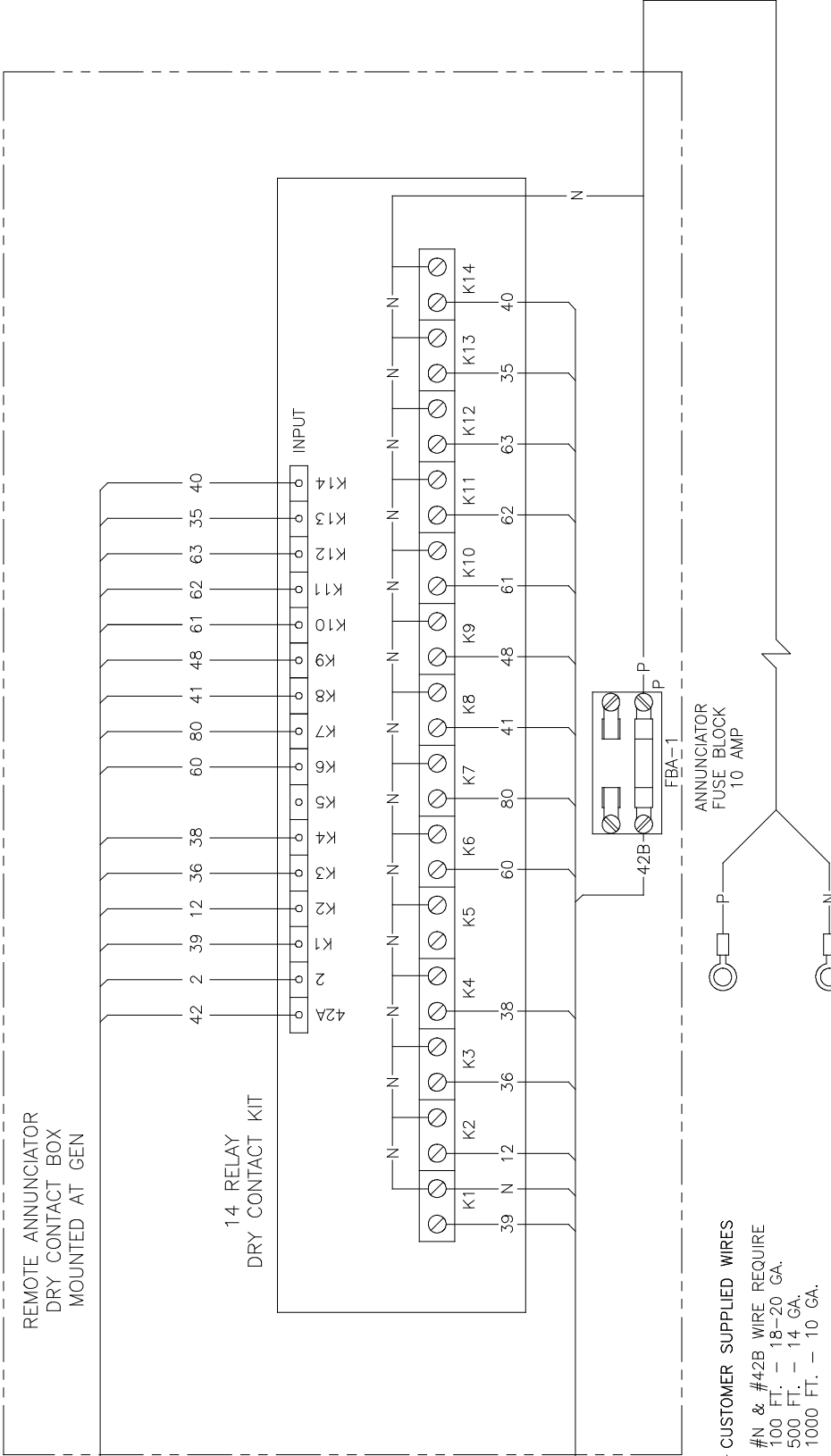
AUTO CHANGEOVER NAT./L.P. GAS

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS IN INCHES 2) DIMENSIONS IN MILLIMETERS 3) SURFACE FINISH 4) TOLERANCES 5) DIMENSIONS 6) DIMENSIONS 7) DIMENSIONS 8) DIMENSIONS 9) DIMENSIONS 10) DIMENSIONS				TITLE DIAGRAM, WIRING 20-100 KW			
APPROVALS	DATE	DATE	DATE	SCALE	NO. NO.	PLT NO.	SHEET
DRAWN	KAR	1-21-88	3-4	3-4	347940C.DWG	347940	D
CHECKED	CWV	8-24-98	3-4	3-4	347940C.DWG	347940	D
APPROVED	JDC	9-4-98	3-4	3-4	347940	347940	D

REV	DATE	REVISION	BY
-	7-23-96	NEW DRAWING [47622]	KAR
A	12-1-97	(A-2) "DIGITAL CONTROLLER" WAS "DEC 340" ON SPECTRUM TITLEBLOCK [52692]	KAR
D	4-15-98	(C-2) INSTALLATION NOTE ADDED [58396]	LDA



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



UNLESS OTHERWISE SPECIFIED - 1. DIMENSIONS ARE IN INCHES 2. TOLERANCES ARE: XXX.X ± .010 SURFACE FINISH XXX.X ± .005 SURFACE FINISH FRACTIONS ± 1/16		DATE 7-23-96		SCALE 1/1		SHEET 2-2	
APPROVALS DRAWN CHECKED DESIGNED APPROVED		DATE KAR US		SCALE 1/1		SHEET 2-2	
DIAGRAM, INTERCONNECTION		DWG. NO. 35424B.DWG		SHEET 354246		D 6	

TP-6274 1/12g

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