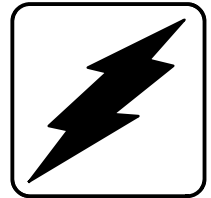


Wiring Diagrams

Residential Generator Sets
Commercial Generator Sets



Models:

15/30RESA

15/30REYG

Controllers:

Advanced Digital Control ADC 2100

KOHLER
Power Systems

9001
KOHLER
POWER SYSTEMS
NATIONALLY REGISTERED

TP-6719 10/11b

This manual provides wiring diagrams for the model 15/30RESA and 15/30REYG generator sets equipped with the Advanced Digital Control (ADC 2100).

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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.

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Wiring Diagrams

The drawings are arranged in numerical order on the following pages.

Compare the junction box on your unit to Figure 1 and Figure 2. Then see Figure 3 for the drawing version number.

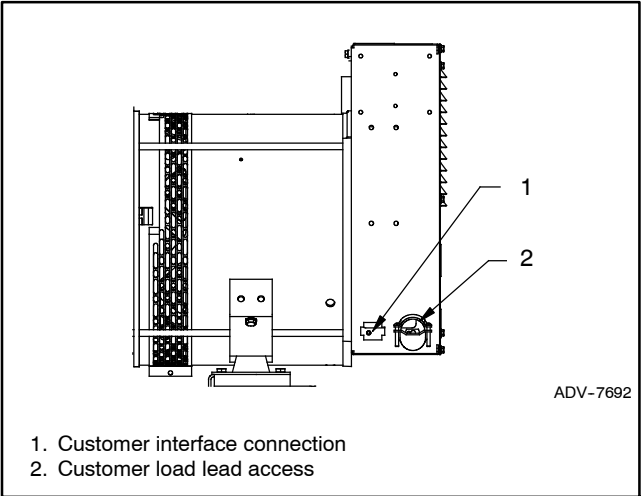


Figure 1 Junction Box, Version 1

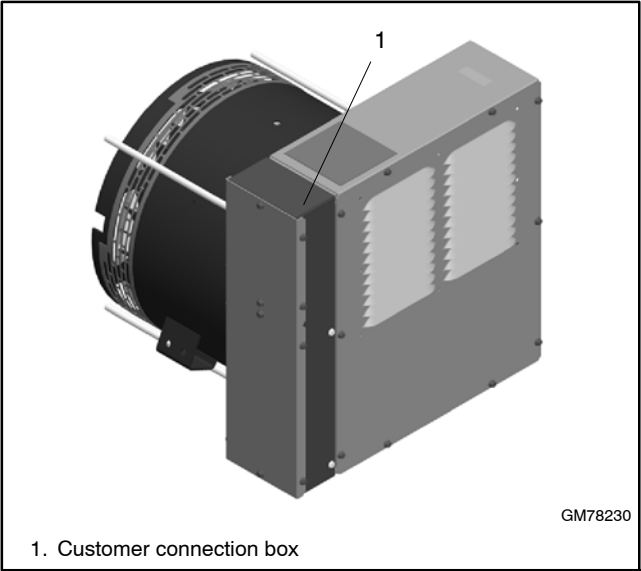


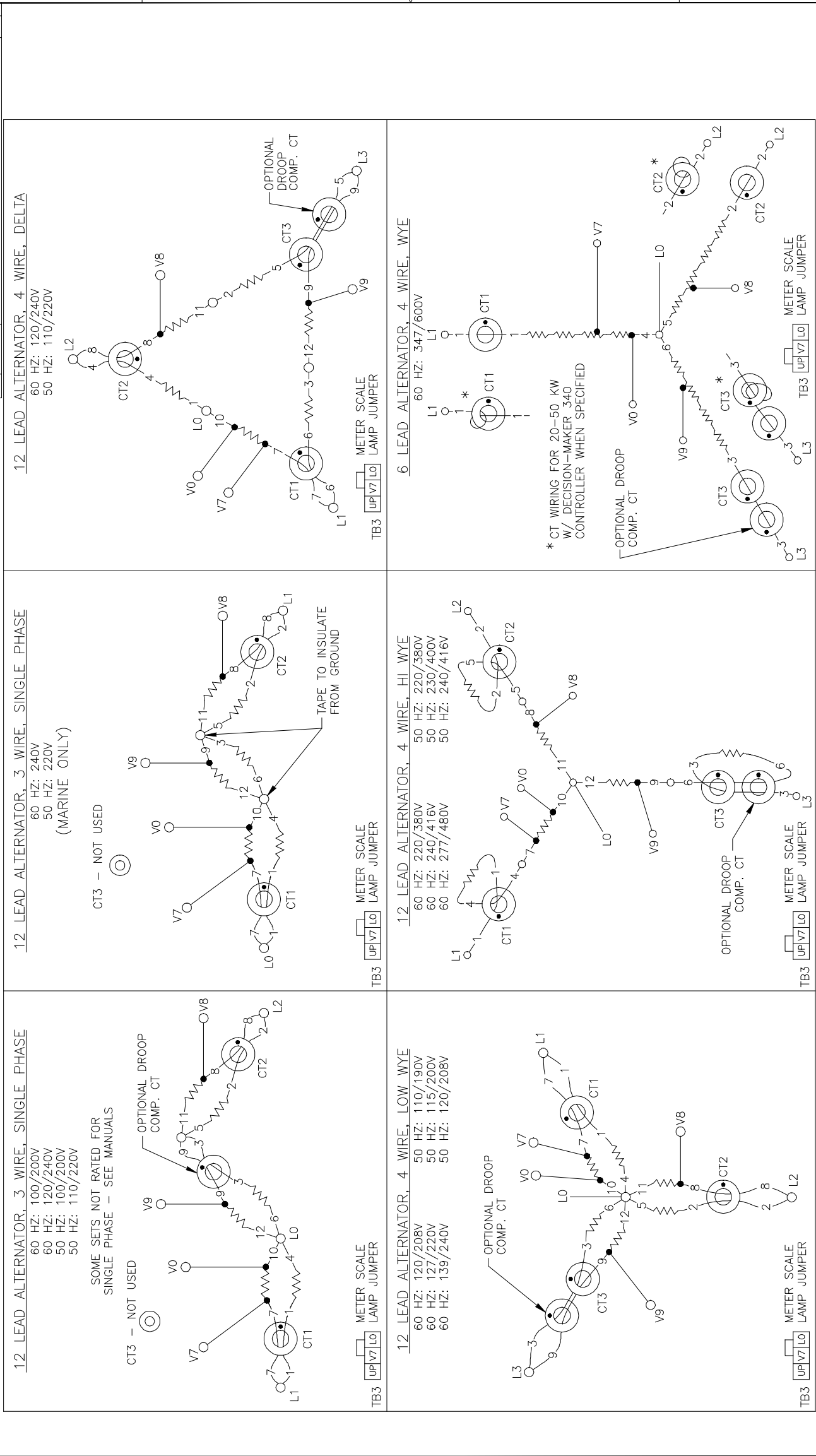
Figure 2 Junction Box with Customer Connection Box, Version 2

Junction Box Style	Drawing Version Number
Figure 1	1
Figure 2	2

Figure 3 Version Number Key

Description	Version 1		Version 2	
	Drawing Number	Page	Drawing Number	Page
Point-to-Point Wiring Diagram				
Sheet 1	GM63943A-A	17	GM78311A-D	19
Sheet 2	GM63943B-A	18	GM78311B-D	20
Schematic Diagram				
Sheet 1	ADV-7602A-C	7	ADV-7945A-B	10
Sheet 2	ADV-7602B-BC	8	ADV-7945B-B	11
Sheet 3	ADV-7602C-C	9	ADV-7945C-B	12
4-Lead, Single-Phase Voltage Connection	ADV-5875A-T	5	ADV-5875A-T	5
12-Lead, Single-Phase, Three-Phase Voltage Connection	ADV-5875B-T	6	ADV-5875B-T	6
Accessory Connections	GM40726-B	13	—	—
Network Connections				
Sheet 1	GM62629A-D	14	GM62629A-D	14
Sheet 2	GM62629B-D	15	GM62629B-D	15
Sheet 3	GM62629C-D	16	GM62629C-D	16

REV	DATE	REVISION	BY
K	9-9-08	(B-2) CT WIRING NOTE RESTORED [86307]	SEM
L	11-19-08	SEE SHEET 3 [88648]	CRS
M	6-29-10	SEE SHEET 4 [89870]	DFS
N	1-25-12	SEE SHEET 1 [92717]	CRS
P	5-22-12	SHEET 5 ADDED [CT14383]	CRS
R	2-26-14	SEE SHEET 6 [CT75603]	PRH
T	3-17-14	SEE SHEET 6 [CT75280]	PRH



NOTES:

CURRENT TRANSFORMER DOT OR "H1" TOWARD GENERATOR.

CURRENT TRANSFORMERS NOT USED ON ALL SETS.

PHASE ROTATION

A B C

L1 L2 L3

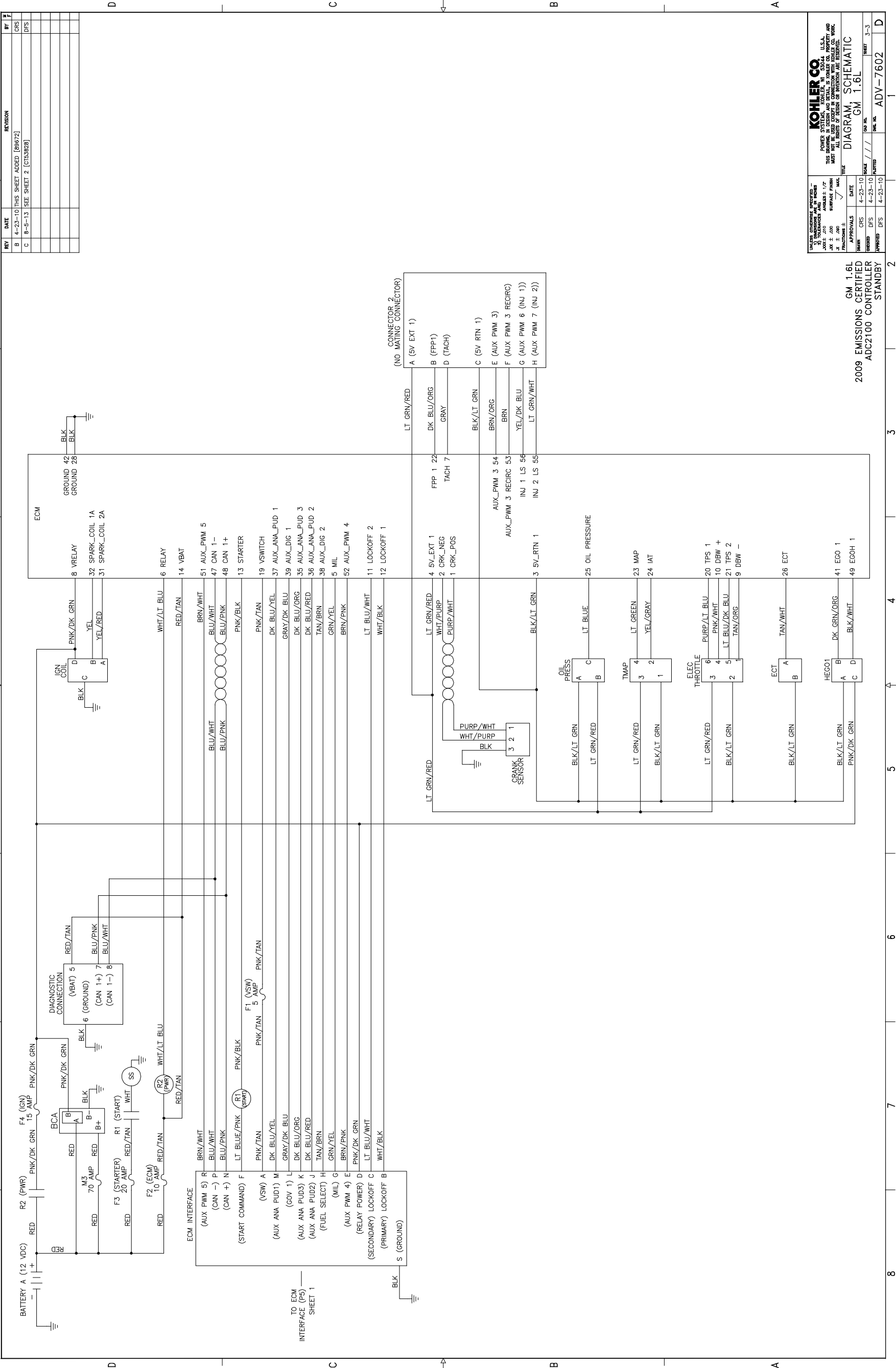
3 PHASE

FRII ALTERNATORS,

20-60KW WOUND EXCITER FIELD ALTERNATORS,

AND 10-20KW SMALL STANDBY

UNLESS OTHERWISE SPECIFIED - DIMENSIONS ARE IN INCHES		KOHLER CO.	
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CHECKED	TLK	NONE	2-6
APPROVED	JMH	PLOTED	ADV-5875
		DWC. NO.	C



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DATE: 4-23-10 APPROVALS: DFS DESIGNED: DFS CHECKED: DFS	GM 1.6L 2009 EMISSIONS CERTIFIED ADC2100 CONTROLLER STANDBY
SCALE: 1:1 SHEET: 3-3	ADV-7602 D

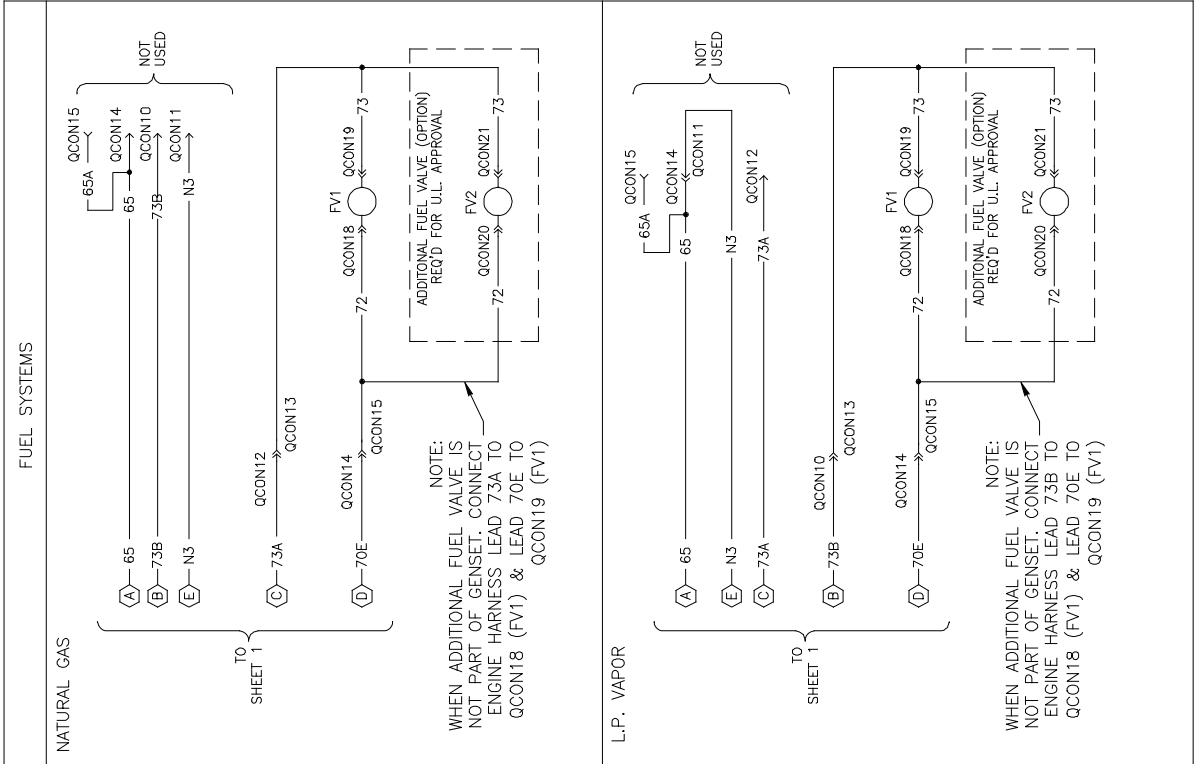
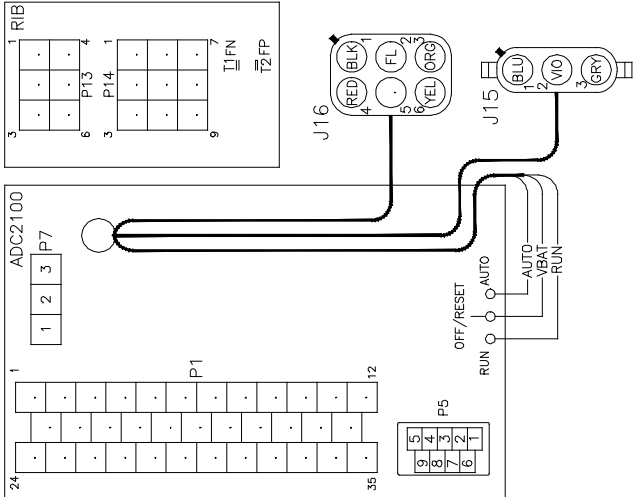
Schematic Diagram, ADV-7602, Sheet 3

8	7	6	5	4	3	2	1
ADC 2100 CONTROLLER							
RELAY INTERFACE BOARD							
P13 CONNECTIONS							
P1-1	STARTER RELAY OUT	P13-1	RUN RELAY COMMON				
P1-2	SIGNAL TO AIR HEATER/RELAY COIL (-)	P13-2	COMMON FAULT COMMON				
P1-3	COMMON FAULT	P13-3	COMMON FAULT NC				
P1-4	GOVERNOR 1B	P13-4	RUN RELAY NO				
P1-5	GOVERNOR 1A	P13-5	RUN RELAY NC				
P1-6	GOVERNOR 2A	P13-6	COMMON FAULT NO				
P1-7	GOVERNOR 2B						
P1-8	COOLANT TEMP SENSOR HIGH						
P1-9	COOLANT TEMP SENSOR LOW						
P1-10	EXTERNAL CAN H						
P1-11	EXTERNAL CAN L						
P1-12	AUX SHUTDOWN						
P1-13	FUEL RELAY OUT						
P1-14	TACH OUT						
P1-15	OIL PRESSURE SWITCH						
P1-16	GROUND						
P1-17	VR SENSOR LOW						
P1-18	PRESSURE SENSOR GROUND						
P1-19	GROUND						
P1-20	GROUND						
P1-21	GROUND						
P1-22	GROUND						
P1-23	GROUND						
P1-24	VBAT (+)						
P1-25	REMOTE START/STOP 1						
P1-26	REMOTE START/STOP 2						
P1-27	GROUND						
P1-28	COOLANT LEVEL/LOSS HIGH						
P1-29	VR SENSOR HIGH						
P1-30	PRESSURE SENSOR SOURCE						
P1-31	GROUND						
P1-32	VBAT ON						
P1-33	GROUND						
P1-34	GROUND						
P1-35	RS232 TXD						
P5 CONNECTIONS							
P5-1	N/C						
P5-2	RS232 RXD						
P5-3	RS232 TXD						
P5-4	N/C						
P5-5	GROUND						
P5-6	N/C						
P5-7	N/C						
P5-8	N/C						
P5-9	N/C						
P7 CONNECTIONS							
P7-1	N/C						
P7-2	CONTINUOUS POWER MODE SELECT						
P7-3	GROUND						
J16 CONNECTIONS							
P16-1	FIELD DRIVE PLUS (G)						
P16-2	FLASH RELAY OUT						
P16-3	AUX WINDING INPUT (55)						
P16-4	FIELD DRIVE MINUS (F+)						
P16-5	N/C						
P16-6	AUX WINDING INPUT (66)						
J15 CONNECTIONS							
J15-1	AC INPUT (V7/I1)						
J15-2	AC INPUT (V9)						
J15-3	AC INPUT (V8/I4)						

ADC 2100 CONTROLLER

RELAY INTERFACE BOARD

- P13 CONNECTIONS
- P13-1 RUN RELAY COMMON
 - P13-2 COMMON FAULT
 - P13-3 COMMON FAULT NC
 - P13-4 RUN RELAY NO
 - P13-5 RUN RELAY NC
 - P13-6 COMMON FAULT NO
- P14 CONNECTIONS
- P14-1 FUEL/AUX RUN RELAY CONTROL
 - P14-2 COMMON FAULT RELAY CONTROL
 - P14-3 STARTER RELAY CONTROL
 - P14-4 IGNITION NEGATIVE
 - P14-5 FLASH RELAY CONTROL
 - P14-6 VBAT
 - P14-7 FUEL (70A)
 - P14-8 GROUND
 - P14-9 STARTER (71A)

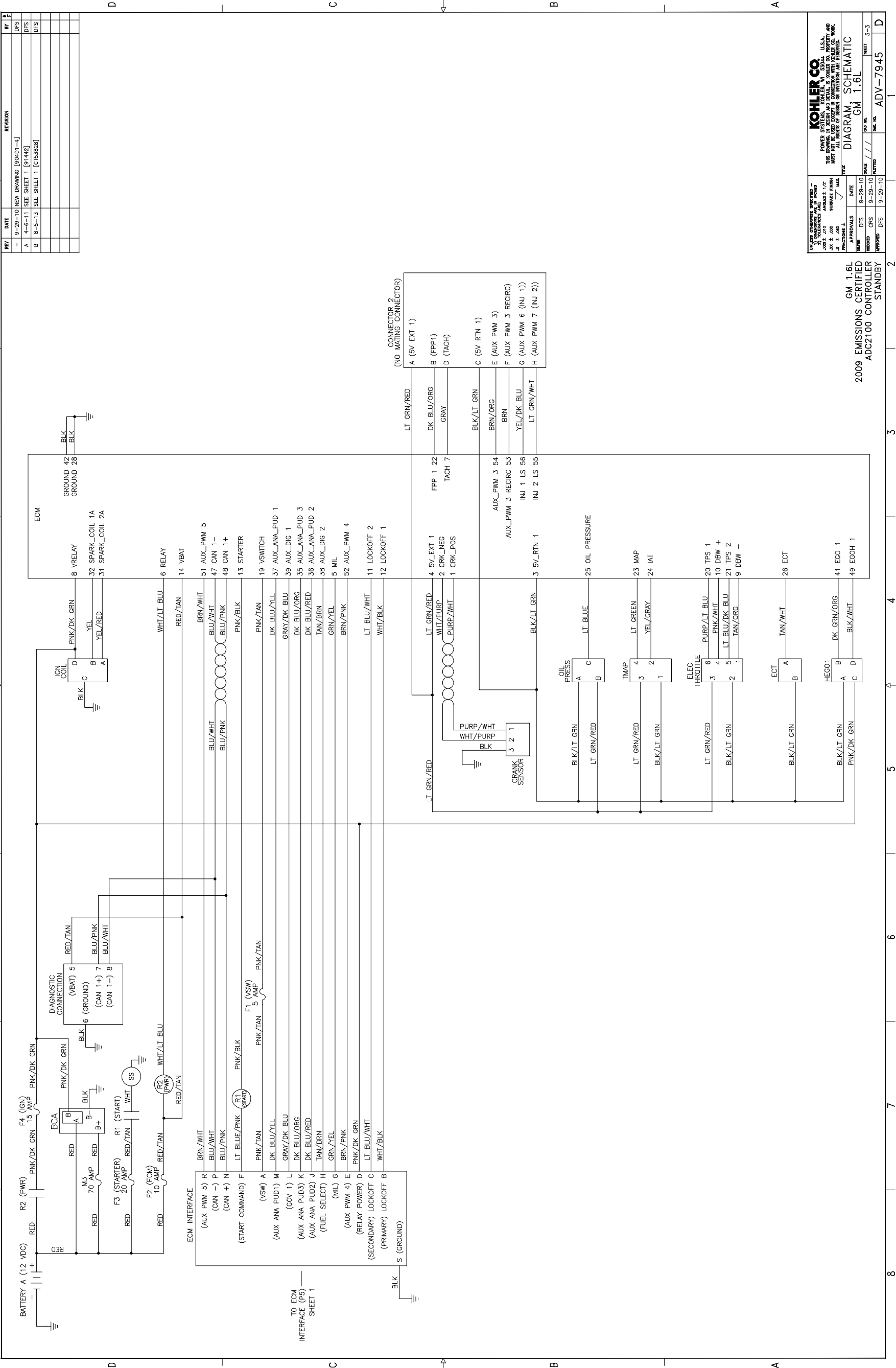


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SCALE	1.6 L	SHEET	2-3

2009 EMISSIONS CERTIFIED
ADC2100 CONTROLLER
STANDBY

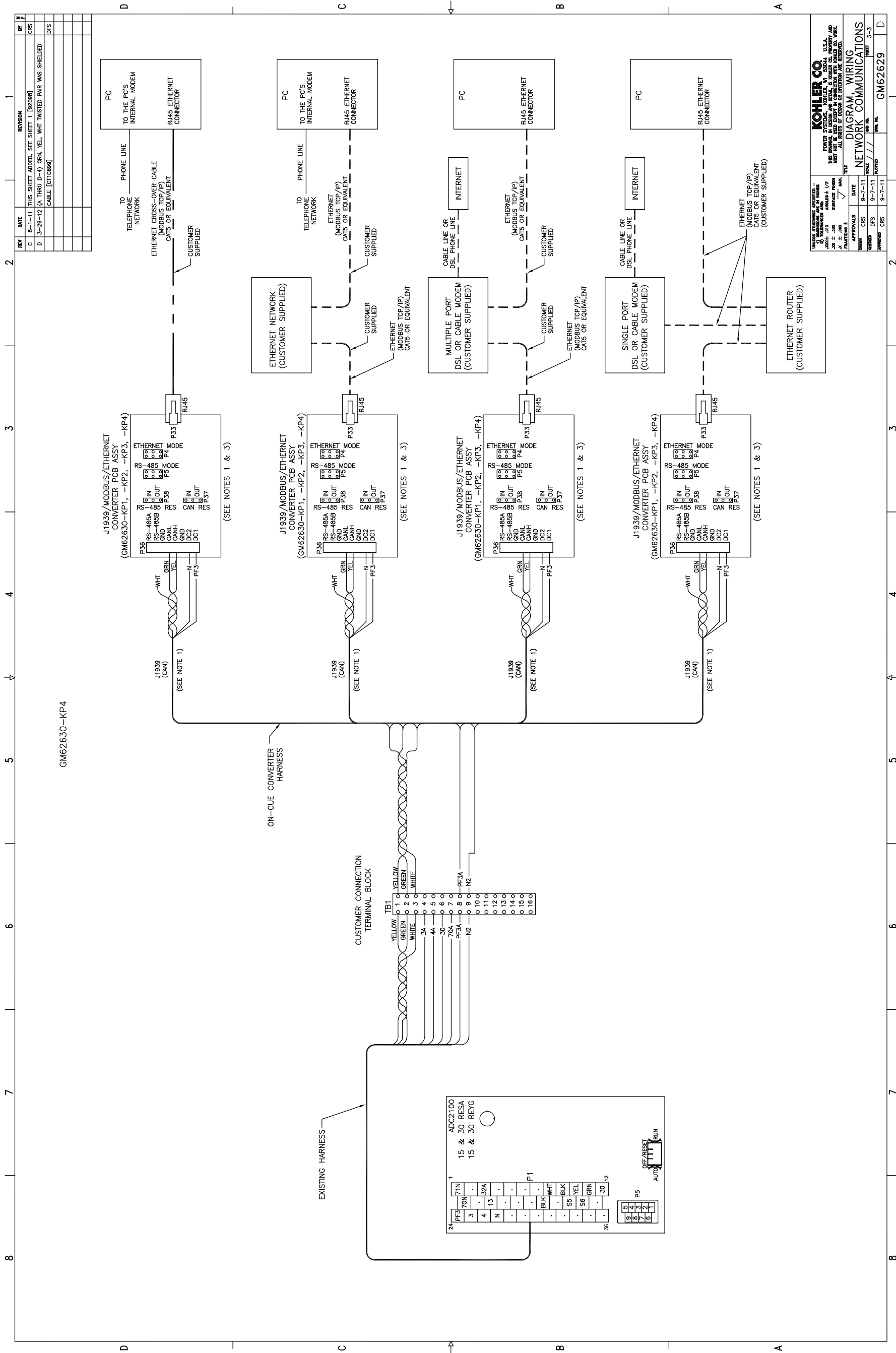
GM 1.6L
ADV-7945

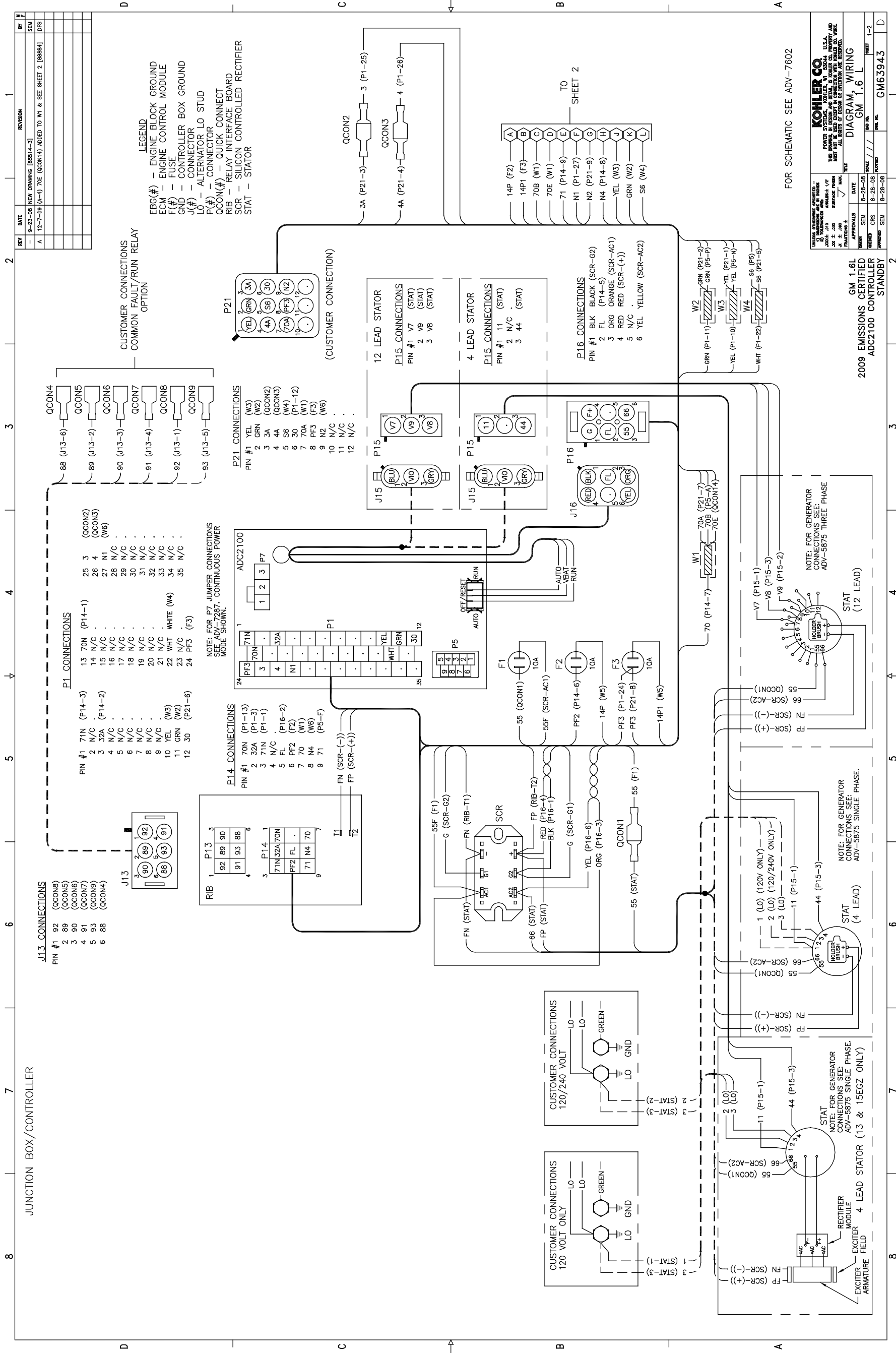
Schematic Diagram, ADV-7945, Sheet 2



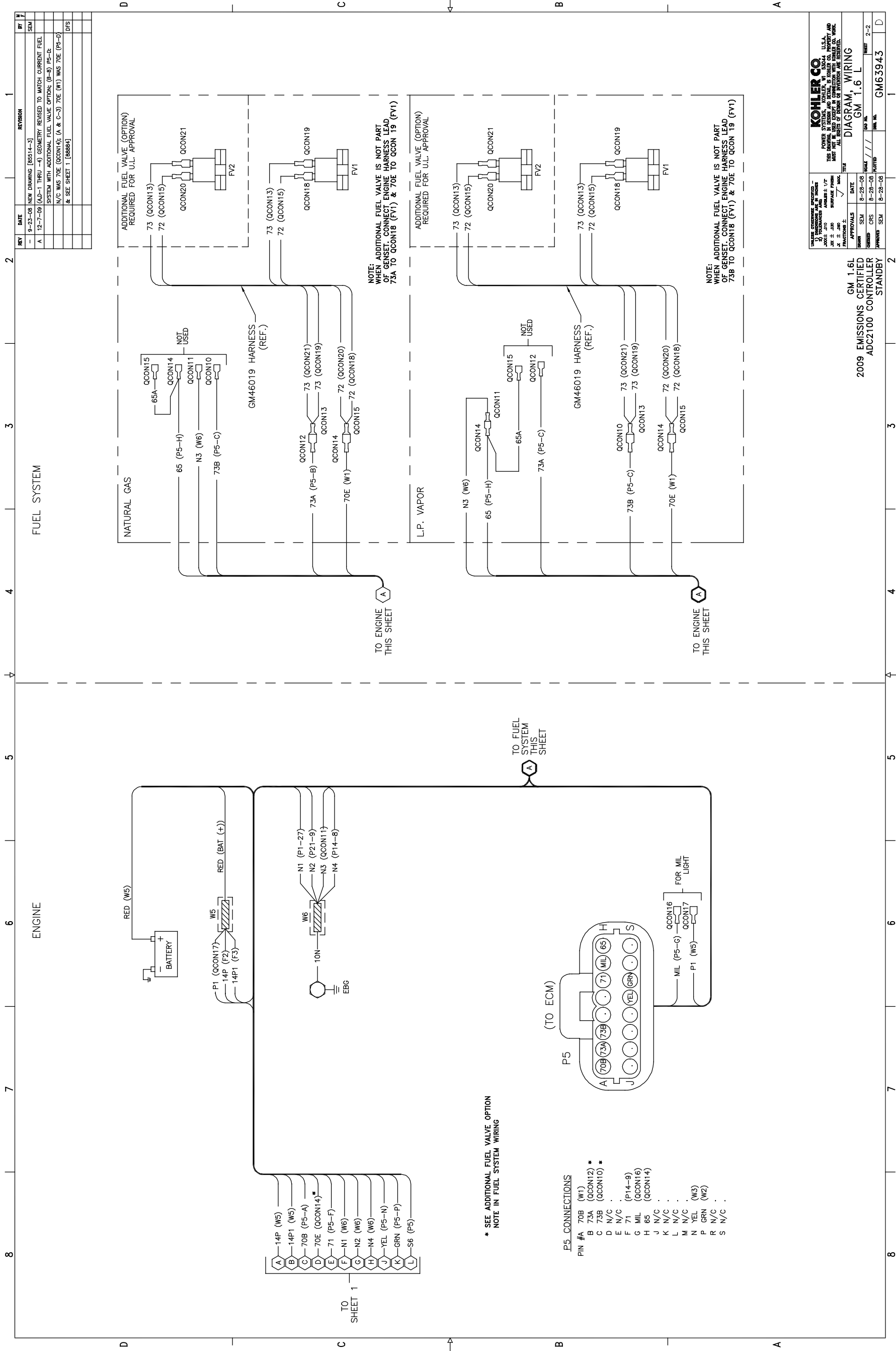
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DATE		TITLE	
APPROVALS		GM 1.6L	
DESIGNED		DRAWN	
CHECKED		DATE	
APPROVED		SCALE	
DRAFTED		SHEET	
D		ADV-7945	

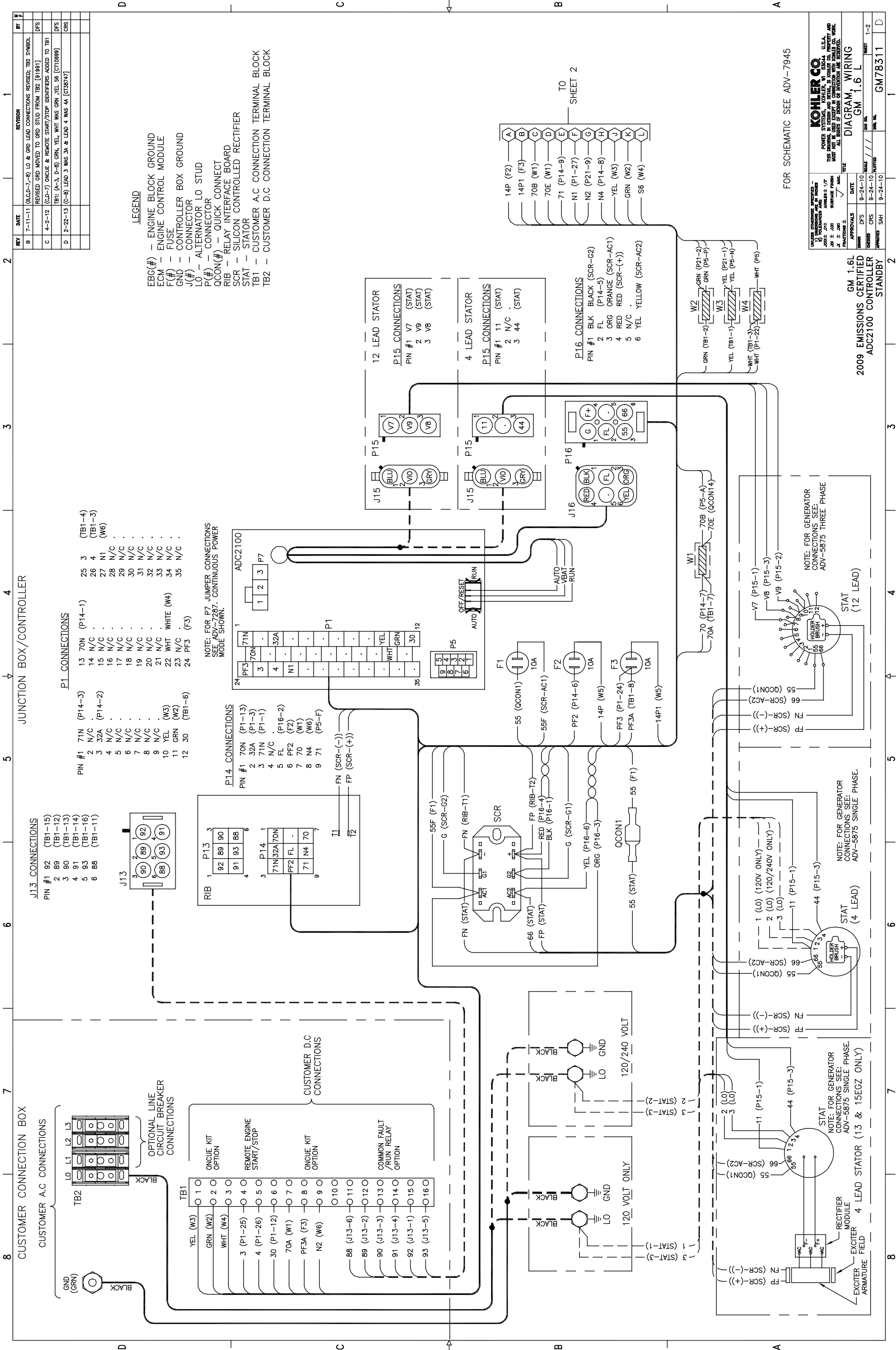
Schematic Diagram, ADV-7945, Sheet 3



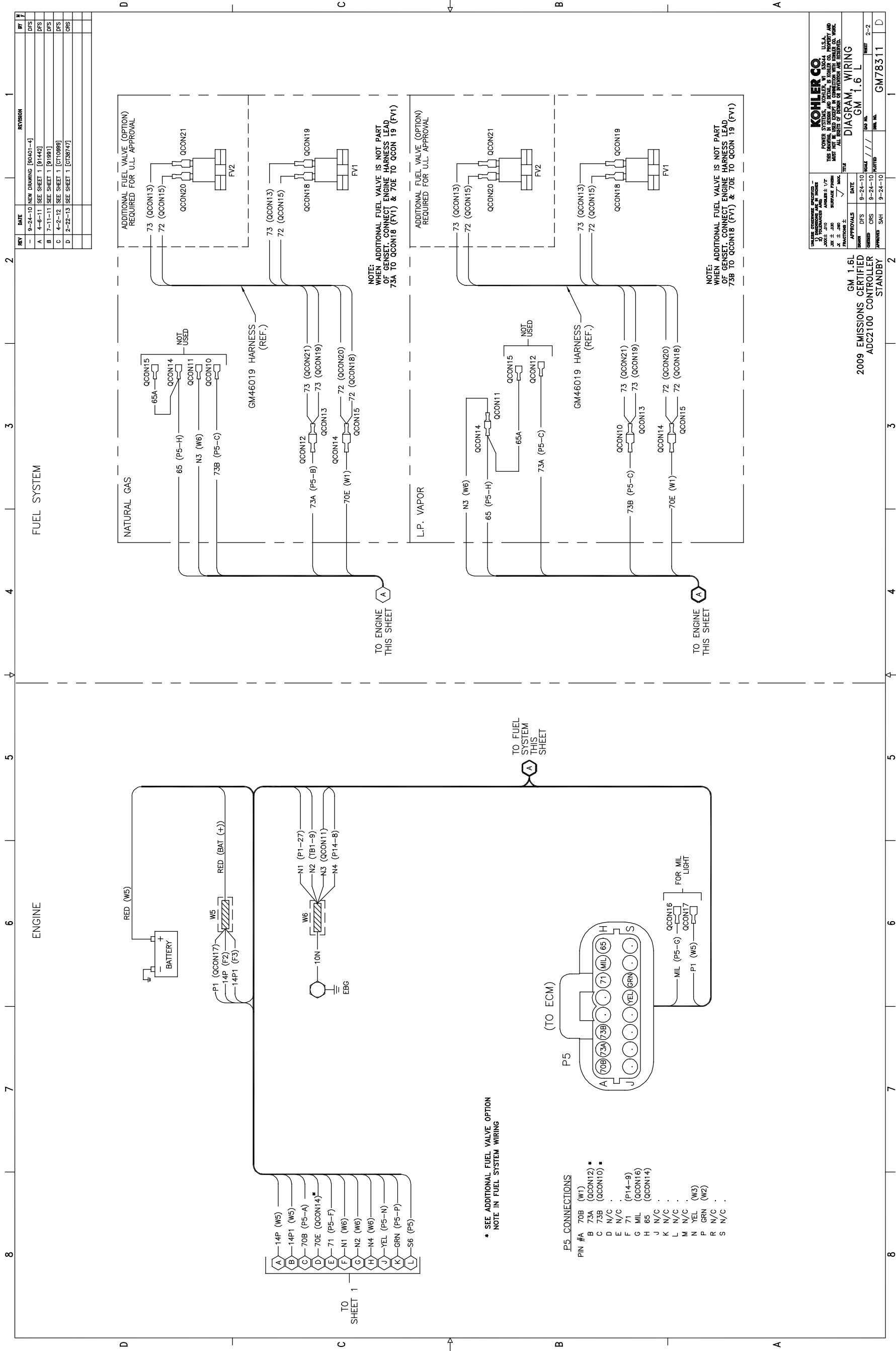


Wiring Diagram, GM63943, Sheet 1





Wiring Diagram, GM78311, Sheet 1



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